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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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SATURDAY-SUNDAY

MARCH 19-20, 2011

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1 (CONFERENCE CALL INITIATED.)

2 00:00:06/00:15:03

3 ROY ZIMMERMAN: Hi, Chuck.

4 CHUCK CASTO: Hi. Hey, it's your
5 favorite action item man.

6 ROY ZIMMERMAN: Ah, man.

7 CHUCK CASTO: I just got out of another
8 meeting with the ambassador, and -- this is Roy?

9 ROY ZIMMERMAN: You've got Roy, Marty,
10 and Scott.

11 CHUCK CASTO: Good. Hi, guys.

12 I just, he just called me up there about
13 something else, and while I was up there, I
14 socialized the [REDACTED] on
15 responding and the concern about who's the player.

16 His thinking on that -- well, first of
17 all, he thought that was a wonderful idea.

18 ROY ZIMMERMAN: When you say, "who's the
19 player," who do you mean?

20 MARTY VIRGILIO: Who's the power player.

21 CHUCK CASTO: I don't remember. I'm
22 sorry. Maybe it was Marty and I who talked about
23 this.

24 ROY ZIMMERMAN: Okay.

25 CHUCK CASTO: One of the concerns about

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1 setting up the consortium is, are we advising the
2 right organization? Is Tepco the right
3 organization, or should we be doing MOD, or who?
4 Who in the Japanese government should, should they
5 be advising?

6 ROY ZIMMERMAN: Okay.

7 CHUCK CASTO: You know, their theory is
8 it's industry to industry, but, but I read the, the,
9 the issue that [REDACTED] sent to Marty and the
10 Chairman three times. You know, they've got to take
11 our advice. You know, industry to industry might
12 not be the right model. It might be industry to
13 government, but, you know, I don't know. That's all
14 you political guys.

15 The bottom line is you got to know who
16 the, who can actually get something done and make
17 decisions and actually implement it, and you know
18 it's not wasteful. That was [REDACTED] concern, as
19 I understood it from Marty.

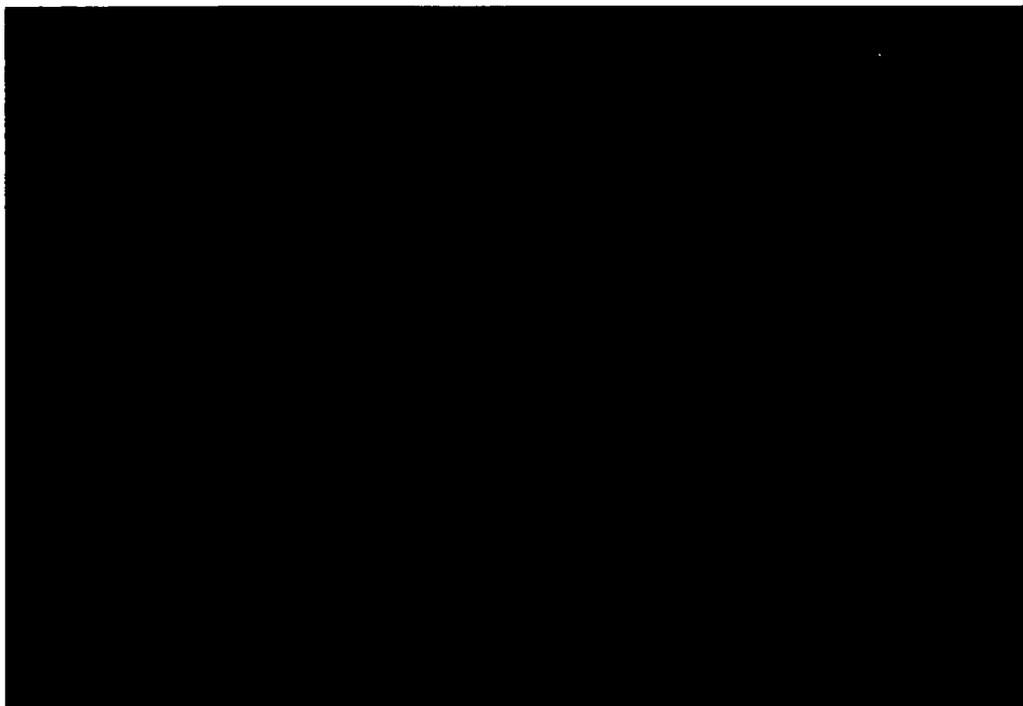
20 MARTY VIRGILIO: Yep, you've got it.
21 You got it correct.

22 CHUCK CASTO: So I socialized it with
23 the ambassador, and he got that and said, you know,
24 that's right. He said, we can, we can find out from
25 the Japanese government. But he -- and what I read

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1 from the conversation is he's not sure that the, you
2 know, how accurate they'll be on that call.



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13 That's just an idea. There's a lot of ideas.

14 The, the issue is that, I think that --
15 and he, and the Chairman probably has to call
16 Ambassador Roos. But before, you know, they, they
17 have some kind of kickoff meeting or something, I, I
18 think it would be beneficial for the Chairman to
19 call the ambassador and for them to discuss the
20 matter.

21 MARTY VIRGILIO: I think we can arrange
22 that.

23 CHUCK CASTO: He's expecting -- I don't
24 know if expecting is the right word -- but he and I
25 agreed that the Chairman would call him. I, I don't

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1 know if that's an expectation or what, but I said
2 I'll have the Chairman call me, and he said, that's
3 what I'd like to have. I said fine. So we, that's
4 an action item, I guess, for you all to think about,
5 whether you want to tee that up with the chairman or
6 what.

7 SCOTT MORRIS: Well, because of the
8 time difference, we have to -- well, I don't know.
9 When were you thinking of doing that?

10 CHUCK CASTO: I don't, I don't know. I
11 don't I don't think, know that I has to -- well,
12 that's up to [REDACTED] and the Chairman and those
13 guys. That's, that's a much higher decision than my
14 pay grade.

15 SCOTT MORRIS: Yeah.

16 MARTY VIRGILIO: Now, noting that the --
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]

22 CHUCK CASTO: Right.

23 MARTY VIRGILIO: And that would be a
24 great opportunity debt because both Admiral Donald
25 and the Chairman could be on one of those calls, and

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1 the two of those could talk about the -- you know,
2 that's one method of alerting the rest of the
3 stakeholders.

4 But do you think the ambassador is
5 looking for a more personal touch from the Chairman?

6 CHUCK CASTO: I thought of, that's the
7 sense I got.

8 MARTY VIRGILIO: Okay.

9 CHUCK CASTO: You know, they, first they
10 would have that personal touch, and then maybe they
11 would carry whatever they concluded off to the, to
12 the other call.

13 MARTY VIRGILIO: So that's a good idea
14 that, you know, we could suggest to the Chairman
15 that he make that call maybe with Admiral Donald to
16 the ambassador before the next SVTS call.

17 CHUCK CASTO: Yeah, before, you know --
18 you say they're every four hours or so, but, you
19 know, before the next couple. But I, I think the
20 ambassador, I remember him the other day saying he
21 wants to be on every SVTS call. So he's, you know,
22 whatever. Whatever they can work out.

23 But I'm just, I've got to get out of
24 that loop.

25 SCOTT MORRIS: The objective of --

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CHUCK CASTO: That's, that's up in the stratosphere.

MARTY VIRGILIO: Go ahead.

SCOTT MORRIS: [REDACTED]



5

Is that correct? I mean, that's --

CHUCK CASTO: I don't know. That sounds, that sounds very articulate, but I'm just, my, I'm just trying to figure out who the power player is over here.

SCOTT MORRIS: I guess that's what I'm getting at. I mean, the point of this all is to get, you know, to start at the top of the mountain with the Prime Minister and say, look, we're bringing all these resources to bear, we want to help, but we're not going to, we can't help unless you help let us help you. And so we need to know, who is that power player? Who is that entity that

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1 we need to go to? That's what I think you're
2 suggesting here, so I'm just trying to confirm that.

3 CHUCK CASTO: Yeah, I think that's what
4 we said. Right.

5 So I'm going to go off, unless you have
6 more, Marty.

7 MARTY VIRGILIO: No. I'm just going to
8 think about that for a while.

9 CHUCK CASTO: Oh, I know what else I
10 got, an action item. Hopefully -- I don't know
11 where we're at on this.

12 MARTY VIRGILIO: Only one per call.
13 Hey, Chuck, only one per call. Okay? Call back.

14 (Laughter.)

15 SCOTT MORRIS: You can only call once an
16 hour.

17 CHUCK CASTO: Yet. What was Jim
18 Wiggins's rule the other day at that meeting? You
19 said he only gets two every 30 minutes.

20 MARTY VIRGILIO: Yeah. I think that was
21 it.

22 CHUCK CASTO: We're working on -- let me
23 put it this way. Rather than have an action item, I
24 just want to confirm that the Protective Measures
25 Team is working with Jack Foster and DOE.

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1 I just got pulled up in the ambassador's
2 office, blindsided -- it, it was uncomfortable -- by
3 DOE in there giving dose numbers and projections. I
4 thought that we were linked up with Jack Foster and
5 PM, Protective Measures. And the ambassador's
6 asking me, you know, what do you think of these
7 numbers? Are these right? Whatever, you know, and
8 I just had to say, look, I haven't seen these
9 numbers. I don't know what they are. You know, I
10 can go find out with Protective Measures and, you
11 know, all that stuff.

12 But I had talked about those, you know,
13 that term [REDACTED] and all that and given that
14 task to somebody, and it was due by six o'clock
15 tonight. And, you know, I got blindsided up there,
16 so I've got to reinvigorate whatever connections we
17 have with that.

18 He wants, he wants projections based on
19 six core melts and -- you know, five, four, three,
20 two, one -- and I know you guys have been pushing me
21 for data to do a better calculation. And we've got
22 John and them over at Tepco trying to get the data.

23 I also suggested to the ambassador, I
24 said with this, with this technical organization
25 stand-up, there's going to be a lot of resources

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1 brought to bear on, you know, that kind of stuff,
2 where industry and DOE can work together and come up
3 with some projections for Tokyo, and, you know,
4 rather than a half a dozen people down in a room.

5 And I would prefer to be, to, to go
6 slower and be more accurate than, and you know, to
7 come up with something with six people sitting in a
8 room. And, you know, that, he acknowledged that,
9 but that only goes so far. You know, it sounds
10 good. If you say it fast.

11 MARTY VIRGILIO: Okay. Chuck, there --

12 CHUCK CASTO: Okay, so --

13 MARTY VIRGILIO: Chuck, there are a
14 couple of projects that are ongoing that I, I think
15 we may have confused a few things for you.

16 I thought Jack Foster was at the Tepco
17 offices trying to get data so that we could develop
18 a site map with, with dose rates in various areas
19 where people might have to work. The other thing
20 that, that's ongoing is our staff is working with
21 DOE to actually do the dose projections in two, in
22 two ways. One would be sort of a worst-case and the
23 other would be sort of a best, more realistic case.

24 CHUCK CASTO: Right.

25 MARTY VIRGILIO: So that you could have

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1 your [REDACTED] [REDACTED]

2 CHUCK CASTO: Right. That latter one is
3 the important one for -- I mean, those are all
4 important, don't get me wrong, but the ambassador
5 certainly wants the latter one --

6 MARTY VIRGILIO: Yeah. Yeah. I know --

7 (Simultaneous conversation.)

8 CHUCK CASTO: -- so he can project
9 whether or not there's any possibility of closing
10 the Embassy.

11 MARTY VIRGILIO: Right. I, I
12 understand. We're working both those projects. So
13 Jack Foster is working on the site map and our staff
14 is working with DOE on the dose projections in
15 Tokyo.

16 CHUCK CASTO: Well, I need to plug Jack
17 Foster into the other project as well because --

18 MARTY VIRGILIO: Okay. Do you --

19 CHUCK CASTO: -- So I'll have him call
20 -- who should he call?

21 ROY ZIMMERMAN: Protective Measures
22 Team?

23 SCOTT MORRIS: He can call the Ops
24 Center, and they can put him in --

25 MARTY VIRGILIO: Yeah, and they could

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1 put him into the -- I'm sorry -- PMT, Yeah.

2 CHUCK CASTO: Is Trish there, or who's
3 in there?

4 MARTY VIRGILIO: Trish turned over to
5 Kathy Gibson.

6 CHUCK CASTO: Okay.

7 So I'll have Jack call Kathy, and they
8 need to get hooked up because I, I, you know, I
9 really don't want to deal with this issue. This is
10 not my area, I don't have the skill set in this, and
11 I need somebody to handle this for me --

12 MARTY VIRGILIO: Now, be aware --

13 CHUCK CASTO: -- and run interference,
14 even if it means getting on a conference call with
15 the ambassador --

16 MARTY VIRGILIO: Okay.

17 CHUCK CASTO: -- or whatever, working
18 with DOE. But, you know, this is kind of out of my
19 skill set.

20 MARTY VIRGILIO: Okay. I'll be blunt
21 with you, since you are with us often. You know, I
22 understand the ambassador wants these threshold
23 values --

24 CHUCK CASTO: I'm often blunt with you.
25 I don't -- sorry, Marty.

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1 MARTY VIRGILIO: Yeah. I, I understand
2 he wants the values, but please don't tell us what
3 the initial conditions are because we've spent a lot
4 of time working with the staff to figure out what is
5 the worst-case initial conditions and what's the
6 best, you know, most optimistic case.

7 CHUCK CASTO: Yeah, well --

8 MARTY VIRGILIO: And what we can tell
9 him is a rationale for how we got to where we are.
10 But --

11 CHUCK CASTO: Yeah, that's great. I
12 think he will insist with at least DOE that they
13 give him the six-reactor thing. He made it clear
14 that that's what he wanted. So, you know, if we
15 give, if we work on realistic one and DOE works on
16 that extreme one, that's okay.

17 MARTY VIRGILIO: Well, we're working on
18 an extreme one, but it's not six reactors because we
19 don't have six reactors in trouble right now.

20 CHUCK CASTO: Yeah; four. We only have
21 four.

22 MARTY VIRGILIO: Yeah.

23 CHUCK CASTO: Yeah, plus the source term
24 from the spent, six spent fuel pools or something.

25 MARTY VIRGILIO: Okay, well, we went to

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1 great pains to develop a rationale for our initial
2 conditions.

3 CHUCK CASTO: Well, I think, I think
4 what they're driving to, Marty, there's two things,
5 a couple of things they're driving to. One is the,
6 the decision point on the embassy.

7 MARTY VIRGILIO: Right.

8 CHUCK CASTO: And, you know -- what am I
9 trying to -- mandatory evacuation of Americans, and
10 also, I think they're trying to get something out to
11 the employees that show it's safe to, no matter what
12 happens, to -- even if the extreme happens -- it's
13 safe to be in Tokyo. Here's what it means to you.
14 You know, it's over a 40-year lifetime, whatever.

15 So I think they want to post that on a
16 web or something like that --

17 MARTY VIRGILIO: Yeah, but the initial
18 conditions --

19 CHUCK CASTO: -- so that the employees
20 that remain can see, even if it's worst-case
21 scenario -- and his definition of worst-case is, let
22 me see, would be one, two, three, four, five, six,
23 seven, eight -- eight source terms.

24 SCOTT MORRIS: I tell you right now --

25 MARTY VIRGILIO: Hey, you know what,

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1 he's going to receive see the PAGs with his worst
2 case.

3 CHUCK CASTO: Right.

4 MARTY VIRGILIO: 

5 
6 
7 CHUCK CASTO: Okay.

8 MARTY VIRGILIO: Not with his initial
9 conditions.

10 CHUCK CASTO: Okay. Well, I'll just,
11 you know, I'll just share with him, we don't think
12 that's realistic to do the worst case.

13 MARTY VIRGILIO: Yeah, that's why we're
14 not, that's why we're trying to do a worst-case that
15 really makes sense given the conditions that we have
16 now and an optimistic (inaudible) case given the
17 conditions we have now. I mean, the team spent half
18 the night last night trying to figure out where do
19 we start from.

20 CHUCK CASTO: Yeah. Well, and I
21 appreciate that work. And then he'll probably just,
22 I just expect he'll turn to DOE and say, give me the
23 worst-case.

24 MARTY VIRGILIO: Well, "Be careful" --
25 you know the old, the old adage, "be careful what

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you ask for."

CHUCK CASTO: Right. Well, I think they already gave him something. I don't know.

So, but okay. We're good on that. We're real good on that. We're real good on that.

Okay. I'm going to go get some lunch. Kirk and I are going to get some lunch. [REDACTED]



5

CHUCK CASTO: Yeah.

MARTY VIRGILIO: How are you doing with the (Inaudible)?

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

(CONFERENCE CALL INITIATED.)

00:15:27/00:15:44

(Extraneous conference call omitted.)

1 (CONFERENCE CALL INITIATED.)

2 00:15:52/00:29:17

3 BOB TAYLOR: Hello. Bob Taylor here.

4 SCOTT MORRIS: Hey, Bob.

5 BOB TAYLOR: Hi. Bob Taylor, Leigh
6 Trosine, and Cara --

7 CARA CHRISTIE: Cara Christie, response
8 manager on the RMT.

9 BOB TAYLOR: Yeah, the reason why I'm,
10 I'm just getting off the ground is Cara made a
11 request to have us give her a little bit of
12 information on projections beyond, I guess, what we
13 have out currently to, you know, as to wind shifting
14 on Sunday and all, specifically to the point of
15 best-case, worst-case scenarios, or the most
16 probabilistic scenarios.

17 And, mostly, at the 30,000-foot level,
18 not necessarily having detailed information like
19 dose or whatever, but just to get a better
20 understanding about how their effort over there, the
21 humanitarian effort, may be impacted if we would
22 believe that the efforts that are currently under
23 way either produce a favorable response or the
24 worst-case response, or that it goes along some
25 other type of a predictable response so they

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1 understand what they need, would the Japanese ask
2 for their people to evac beyond the 20-mile or --
3 excuse me -- beyond the 20-kilometer range so they
4 would better be able to anticipate the humanitarian
5 efforts that may be needed in the future here just
6 within the next few days.

7 And I think that's, that's mostly what
8 the -- Cara's saying yes -- that's most of the
9 requests coming in. And maybe if we already have
10 that kind of data or something, is that something
11 that we could support?

12 MALE PARTICIPANT: Let me make sure I
13 understand the, the request. Are you looking for
14 real-time dose information that we've collected
15 over, over time or are you trying to get predictions
16 for the future? And it's all in-country that you're
17 looking for?

18 CARA CHRISTIE: Yeah, this is Cara. I
19 think, less emphasis on dose information collected
20 to date and more a step back on just looking at what
21 the current situation is at the plant and what it
22 might evolve into over the next several -- well, I
23 guess whatever a reasonable time period is -- for
24 analysis, so if that's several days, if that's
25 weeks.

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1 You know, the nuclear situation is
2 something that is not very familiar to the folks
3 that are used to working in humanitarian emergencies
4 over here. We're much more used to war and drought
5 and things like that. And so when we are doing our
6 contingency planning and trying to figure out how
7 big of a humanitarian emergency there might be, it's
8 difficult for us to wrap our minds around what
9 issues we should even be including.

10 So, for example, you know, could there
11 be such a huge escalation in the nuclear situation
12 that they're going to have to evacuate, you know, to
13 50 miles out, to a 100 miles out, less, more, and
14 then to try to work it from there? Or is that so
15 unlikely that it's, you know, almost a futile
16 exercise? Or is it somewhere in between?

17 Did that help?

18 MALE PARTICIPANT: Yes, I think, a
19 little. It sounds like what you need is, is actual
20 dose information to be able to determine where you
21 can get to and where you can't get to.

22 BOB TAYLOR: Well, I don't know if it's
23 as much as the personnel performing the humanitarian
24 aid as much as what would be the need. In other
25 words, if the evacuation was to expand to, say, 30,

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1 40, or 50 kilometers -- and that's not what it's at
2 now, of course -- but if it would need to be
3 expanded.

4 Then, there would be more evacuees to
5 take care of, and there would be more sheltering
6 locations and more items needed for those who would
7 need to be evacuated into those shelters. And then
8 they would need to know what they would need to
9 provide to them.

10 They don't need to know the doses as to
11 what's causing that to be the evacuation, but they
12 would need to know when that may occur and how far
13 out it may occur so that they can put together their
14 contingency plans.

15 I mean, to provide the doses would be
16 something -- excuse me -- that could be useful for
17 teams that would be actually doing that. But that
18 part of it, I believe, is, is kind of like, you
19 know, part of that effort, but to know what that
20 effort is needed is really what they, they are
21 seeking.

22 SCOTT MORRIS: Let me, let me try.

23 So you -- just to play it back, I think
24 what I heard was that there's an interest in
25 understanding that, should the, the event at

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1 Fukushima, Fukushima get worse, is there any
2 likelihood that the protective actions might expand
3 beyond the current 20- and 30-kilometers?

4 CARA CHRISTIE: Yes.

5 SCOTT MORRIS: And if so, so, how
6 likely is that to occur, I guess, and how far might
7 it reach out to. That's what I'm hearing you ask.

8 CARA CHRISTIE: Yeah. I think the
9 question is, how likely is it that the situation at
10 the plant will deteriorate? And how, if there is
11 any likelihood that it could deteriorate, how much
12 might it deteriorate?

13 SCOTT MORRIS: All right.

14 CARA CHRISTIE: And then what would that
15 mean for a possible evacuation perimeter?

16 SCOTT MORRIS: As much as I think we
17 don't like to answer that, I mean any, any answer we
18 provide would be highly speculative because we
19 don't, we don't have access to, you know, precisely
20 what's occurring at the site.

21 KATHY GIBSON: I think the source term
22 that we found (off-mic).

23 CARA CHRISTIE: I mean, it's definitely
24 understood that that sort of analysis would probably
25 have to be caveated with all sorts of limitations

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1 about, you know, this is what we know, this is what
2 we don't know, this is what we're basing our
3 analysis on, you know, critical assumptions.

4 SCOTT MORRIS: Well, I can tell you
5 this. I mean, we, we have done, for lack of a
6 better term, worst-case. You can argue, reasonable
7 people can debate whether it's truly worst case, but
8 for the purposes of our work and working with
9 others, we've done that worst-case analysis and
10 we're continuing to refine it. And we made
11 projections on the basis of that worst-case, and
12 that's what led to our -- what's the word? The, the
13 protective action recommendation that we made is
14 pushing it out to 50 miles.

15 BOB TAYLOR: I guess -- Scott, is that
16 you?

17 SCOTT MORRIS: Yes.

18 BOB TAYLOR: Yeah, I guess, though, we,
19 we have been receiving some flyover data.

20 SCOTT MORRIS: All right, I haven't
21 seen the latest flyover data.

22 BOB TAYLOR: Yeah, and it's just, it's
23 just, I guess this is just something I think that
24 is, is more of a, not to take action on, as much as
25 to create contingency plans for.

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1 So, you know, if, if, if we believe not
2 for, you know, to actually take action on it if we
3 did it out to the 50-mile range, but for if the
4 worst-case happened. It is to plan for, if it were
5 to happen, what would be humanitarian -- or I
6 shouldn't say "humanitarian" -- what would be the
7 impact upon the population in that area be [sic]?

8 In other words, what, what -- again,
9 just going back again, if it were out that 30 miles,
10 what would be the cause of that, an actual release,
11 and when would we predict it to happen? If we're
12 already saying we're predicting out to 50 miles,
13 then I think they would like to have a little more
14 information as to the basis, not the basis of
15 prediction, but when we would anticipate that to
16 occur, given current information that we have.

17 And if we tell them that it's going to
18 occur any, you know, any moment, then I guess they
19 would need to act on that. But that's part of what
20 they're looking for is what could the future hold.

21 SCOTT MORRIS: Oh, yeah.

22 SCOTT MOORE: This is Scott Moore. I
23 guess, who is "they"? Is it the US government or
24 the Japanese government?

25 BOB TAYLOR: US government. USAID is

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1 trying to predict and create contingency plans on
2 how much assistance may be requested in the future
3 so they can put together a contingency plan.

4 SCOTT MOORE: Okay. Well, in, in direct
5 response to the question, I'm not sure that we can
6 answer that because a lot of it's based on things
7 like the meteorology, the, the wind direction --

8 SCOTT MORRIS: The effectiveness of any
9 measures that the, the folks on the ground are
10 having now. I mean, it's --

11 CARA CHRISTIE: I think, actually, even
12 if we could get a description of those factors that
13 go into the analysis, that would help as well. So,
14 for example, you know, I've seen reports that the,
15 the weather patterns might change on Sunday and
16 blow, I guess, the plume cloud back over Japan as
17 opposed to out over sea. But I don't know what that
18 means as far as risks to the Japanese population.

19 Or, on the more technical side, my
20 understanding is that efforts right now are to get
21 water back into the spent fuel pools. (Inaudible)
22 is talking about the power, but I understand from a
23 call earlier tonight that it's NRC's view that the
24 power supply is not necessarily the priority given
25 its likelihood of improving the situation.

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1 So, looking at the different efforts
2 that are underway now, if they all fail, what does
3 that mean as far as impact on radiation? And, I
4 guess, what other scenarios could lead to a
5 significant radiation event?

6 And if the answer is, we don't know
7 because there are all of these factors, then it
8 would be helpful just to get an explanation of what
9 those factors are and why it's not possible just so
10 we have some basis of how far we go in our
11 contingency planning.

12 JOE PIKE: Okay. Let's make sure that
13 we have your number, and then our Protective
14 Measures folks will give you a call a little bit.

15 SCOTT MORRIS: Well, I think we should
16 work this to the LTs because that's standard
17 protocol. But --

18 BOB TAYLOR: You can email me through,
19 just through the ELMRC email, myself or Leigh, as to
20 --

21 SCOTT MORRIS: Well, we've got a
22 liaison team; right? So we should be working
23 through that process to interact with (audio
24 interference). So we'll do that.

25 But, yeah, so the contact information is

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1 helpful.

2 LEIGH TROCINE: Well, these books are
3 the --

4 BOB TAYLOR: we are the liaison team --

5 LEIGH TROCINE: -- to the RMT.

6 BOB TAYLOR: Yeah, we are the liaison
7 team.

8 SCOTT MORRIS: No, I'm talking about
9 the liaison --

10 KATHY GIBSON: So, when we're ready to
11 talk, we can let the liaison team know, and they'll
12 set up --

13 BOB TAYLOR: Yes, that's what I'm
14 saying. When the Liaison Team is ready to talk,
15 they can send the information via the normal email
16 channels to us here and we can set up the conference
17 call. We'll be on the call then.

18 KATHY GIBSON: Okay.

19 SCOTT MORRIS: Okay.

20 JOE PIKE: Okay. I'm not sure how
21 satisfying information is going to be for you. We
22 can't predict what's going to happen at the site.
23 You know, it, it's not like there's something
24 imminent in terms of a degradation in, in one of
25 these systems that's apparent to us.

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1 They're trying a variety of mitigating
2 measures, which are having likely limited effects
3 and, as you all know, it's difficult to get
4 information on what the radiation doses are. So the
5 things that you've talked about, like weather, will
6 clearly have an impact on what the situation is
7 going to be in country.

8 But we'll try to work up a few thoughts
9 for you and try to support you as best we can.

10 BOB TAYLOR: Okay. Thanks, Roy [sic].

11 LEIGH TROCINE: Appreciate it. Thanks,
12 everybody.

13 JOE PIKE: Okay. Thank you. Bye now.
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1 (CONFERENCE CALL INITIATED.)

2 00:29:19/01:18:26

3 JOE PIKE: Brian, are you there?

4 BRIAN McDERMOTT: Yeah, I am.

5 JOE PIKE: Okay. This is Joe Pike.

6 You're up on the bridge.

7 BRIAN McDERMOTT: Thanks.

8 (Standby to 00:29:--.)

9 (Partially inaudible content omitted.)

10 MALE PARTICIPANT: I, it's my
11 understanding, it's really intended to be an
12 INPO-led --

13 MALE PARTICIPANT: Yeah.

14 MALE PARTICIPANT: Well, I think --

15 MALE PARTICIPANT: -- industry response.

16 MALE PARTICIPANT: I think about it sort
17 of like a Deepwater Horizon here. I think that that
18 would -- would the government (inaudible) that out,
19 and his, his folks that (inaudible). There was
20 really lot of industry there at that well.

21 MALE PARTICIPANT: Yeah.

22 MALE PARTICIPANT: I sort of see that as
23 the model.

24 MALE PARTICIPANT: Yeah. I, I had
25 suggested that when, when I got here a few days ago,

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1 the Deepwater Horizon --

2 MALE PARTICIPANT: It took us a while to
3 catch on.

4 MALE PARTICIPANT: -- an example of this
5 --

6 MALE PARTICIPANT: We get there. That's
7 all that --

8 (Audio interference.)

9 MALE PARTICIPANT: -- he was not
10 contacted. It was disappointing for the Chairman.
11 So that's the model that we worked on.

12 MALE PARTICIPANT: Have you shared this
13 with (inaudible).

14 MALE PARTICIPANT: I told him what we
15 were doing.

16 MALE PARTICIPANT: Okay. Yeah.

17 MALE PARTICIPANT: I, I knew he, he was
18 not (inaudible).

19 MALE PARTICIPANT: Is this available
20 (inaudible) we might share --

21 (Audio interference.)

22 MALE PARTICIPANT: We just sent it out
23 to all the -- we sent it out all the, we sent it out
24 to these folks electronically with an invitation to
25 the meeting, so you all (inaudible), just ask

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1 (inaudible) and we'll get (inaudible).

2 BRIAN McDERMOTT: Good morning, Marty.
3 This is Brian McDermott. I was just calling in to
4 listen as you guys wrapped up this shift.

5 MARTY VIRGILIO: Okay, Brian. Are you
6 on your way in?

7 BRIAN McDERMOTT: I am.

8 MARTY VIRGILIO: Okay. Yeah, I, I think
9 the significant issue that we're going to be dealing
10 with tomorrow is setting up a meeting. Well, we
11 actually, I think we got everything in motion for
12 you.

13 But what we'll be having is we'll be
14 hosting a meeting here, at two o'clock in the
15 afternoon, of a consortium of government and
16 industry representatives. And think "Deepwater
17 Horizon" and how we capped that well and the
18 industry-government partnership that was formed, and
19 was eventually successful, in that operation.

20 And so we're bringing to bear the
21 resources of folks like GE, Hitachi, Areva, Bechtel
22 and others, being coordinated by INPO, to this
23 meeting with us, Naval Reactors, and Department of
24 Energy to start a dialogue on how this, how this is
25 going to work.

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1 BRIAN McDERMOTT: Okay.

2 MARTY VIRGILIO: So I think this is a
3 real significant milestone and turning point for our
4 operations.

5 BRIAN McDERMOTT: Yeah. It looks like
6 we've got some more operational folks involved, as
7 opposed to NRR engineers.

8 MARTY VIRGILIO: Yep. Yeah, people that
9 actually can implement, and that's where we've been
10 frustrated here, is the implementation.

11 BRIAN McDERMOTT: Right.

12 MARTY VIRGILIO: So we're going to have
13 that meeting here tomorrow at two. I think we're
14 going to do it in one of the ACRS rooms. And we're,
15 we're inviting representatives from all of our
16 principal, you know, program offices to either have
17 the office director or the office
18 director-designate, one of his subordinates to come,
19 one of his or her subordinates, to come in and do
20 this.

21 MALE PARTICIPANT: I'm on the way up.
22 Did you hear me?

23 MARTY VIRGILIO: Who's on the line? Who
24 just joined the bridge?

25 (No response.)

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1 MARTY VIRGILIO: Are you still there,
2 Brian?

3 BRIAN McDERMOTT: Yes I am.

4 MARTY VIRGILIO: Okay. We can hear you.

5 BRIAN McDERMOTT: That almost sounded
6 like one of the operations --

7 MARTY VIRGILIO: Yeah, it might've been
8 one of our HOOs.

9 BRIAN McDERMOTT: Okay. So that's the
10 (audio interference).

11 (Partially inaudible content omitted.)

12 ROY ZIMMERMAN: I personally wasn't
13 sure. I knew they were talking about (inaudible) on
14 hold (inaudible) hydrogen explosion.

15 FEMALE PARTICIPANT: It's on the IAEA
16 (inaudible).

17 ROY ZIMMERMAN: Yeah, that's what I was
18 going to say. The IAEA is reporting that.

19 FEMALE PARTICIPANT: Yeah, it's on the
20 press release.

21 MALE PARTICIPANT: Okay.

22 MARTY VIRGILIO: I don't understand
23 either of those. So, so that's different than what
24 I heard (inaudible).

25 MALE PARTICIPANT: There, I thought the

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1 concern was more of, as you concentrate (audio
2 interference), the core adapts. I was looking at --

3 MALE PARTICIPANT: Yeah, I'm sorry.
4 Okay. Okay. These are materials, and I was
5 thinking, one --

6 MALE PARTICIPANT: But they were also,
7 they were also raising concerns about the reactor
8 vessel and the impact of the steam water on the
9 reactor themselves.

10 MALE PARTICIPANT: It would affect the
11 materials.

12 MALE PARTICIPANT: First of all, this
13 reactor really wasn't meant for boric acid, number
14 one, and number two, now you've got seawater, so
15 you're concentrating sodium in there. If you
16 generate caustic sodium hydroxide, then, you know,
17 God knows what you got. What kind of brew have you
18 got going on in there? Not to mention, all the
19 little wee beasties that you're pumping in there
20 from the ocean.

21 MALE PARTICIPANT: Yeah. It's not
22 designed for boron, so they don't use boron and any
23 NA forms for refueling outages or --

24 MALE PARTICIPANT: Only as part of an
25 emergency shutdown. They have a thing called

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1 "standby liquid control". It's a control that, they
2 can, well, put it in. If the control (inaudible) is
3 stuck, then they'll go in and set it down the
4 (inaudible).

5 MALE PARTICIPANT: Okay. That's, I
6 guess I was thinking that it's at least been thought
7 about as part of the system, but it's not
8 (inaudible).

9 MALE PARTICIPANT: Anything (inaudible)
10 effective.

11 MALE PARTICIPANT: The, they're kind of
12 shifting towards the longer, intermediate and
13 longer-term kind of thinking; okay, so now we've got
14 the reactors cool, what have we done kind of stuff.
15 That's an interesting one.

16 One of the things that I had suggested
17 to some of the, our folks is that if they look to
18 intermediate, longer-term, the (audio interference)
19 were earthquakes and tsunamis and the rest of it.
20 So getting into a place where we're not just stable,
21 but they've got to take steps on (audio
22 interference) based on siting dry wells, that kind
23 of thing.

24 MALE PARTICIPANT: Can I see the number
25 on that information?

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1 MALE PARTICIPANT: I think you got, I
2 think you've got a potential fill.

3 MALE PARTICIPANT: It's something like
4 11 dash something.

5 (Partially inaudible content omitted.)

6 MALE PARTICIPANT: (Inaudible) falling
7 down into a puddle.

8 MALE PARTICIPANT: What, what I had
9 read, I guess, was that if the dry well is flooded,
10 then it prevents pre-failure (inaudible), but then
11 again, what we're dealing with is an a direct
12 statement (inaudible).

13 MALE PARTICIPANT: First principles need
14 to be (audio interference). And again, I'm not
15 trying to (inaudible) this meeting response either.

16 I'm just saying I think it's some longer-term,
17 (audio interference) longer-term (inaudible). Is
18 there, is there a need to think beyond just the
19 first stage of cooling (inaudible).

20 I can see that the, the team could
21 evolve. You know, the consortium could evolve as a
22 function of time, and as conditions change, the NRC
23 backing out of this at some point and DOE
24 (inaudible) the actual cleanup.

25 (Inaudible) the core is stable and cool

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1 and everything else is done, then, you know, start
2 thinking about the longer-term cleanup. That's not
3 our, that's not our strength.

4 If it were Chernobyl, that might be
5 different. Chernobyl stakeholders (inaudible).
6 They've got the right people.

7 MALE PARTICIPANT: Their, their groups
8 and focus and constitution of this could change --
9 (audio interference) -- they need contract proposals
10 (inaudible).

11 MALE PARTICIPANT: All-righty.

12 MALE PARTICIPANT: We'll have to think
13 ahead. It's going to be a good day.

14 MALE PARTICIPANT: (Inaudible).

15 MALE PARTICIPANT: All right. Good.

16 (Standby 00:39:59 to 00:41:13.)

17 MALE PARTICIPANT: -- the priorities
18 doesn't make sense for these units.

19 MALE PARTICIPANT: Yeah.

20 MALE PARTICIPANT: (Audio interference).

21 It was an indication that we think that they --

22 MALE PARTICIPANT: Yeah. We think it's
23 a bigger problem.

24 MALE PARTICIPANT: Yeah, but you have a
25 good point because the issues we're dealing with,

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1 both the spent fuel pool and the core (audio
2 interference), the core may not be the same priority
3 as the spent fuel pool.

4 MALE PARTICIPANT: All right. I just
5 don't know what we're doing with that (inaudible).

6 MALE PARTICIPANT: Joe, here you go.

7 MALE PARTICIPANT: If it is an example
8 of not doing much with this, it's because we didn't
9 get any more information.

10 MALE PARTICIPANT: Yeah, right. Well,
11 no, we didn't -- if the units (inaudible).

12 (Standby 00:42:03 to 00:42:23)

13 MALE PARTICIPANT: (Inaudible) the
14 release in progress, or releases in progress. I
15 think it's going to be a big deal because that's
16 been creeping now to this country.

17 MALE PARTICIPANT: It already has?

18 MALE PARTICIPANT: It has. Yeah.

19 MALE PARTICIPANT: It looks like 10^{-13}
20 microcuries per milliliter airborne (inaudible) --

21 MALE PARTICIPANT: It's a matter of
22 putting it in perspective so people understand how
23 low the values are.

24 MALE PARTICIPANT: (Inaudible)
25 protection. And then that (inaudible) order's a

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1 magnitude below (audio interference). That would be
2 another issue. I think.

3 MALE PARTICIPANT: Basically it's at the
4 lowest, lowest at the tactical level. So it's a
5 question of a question of its (inaudible) doing
6 there (inaudible) --

7 (Audio interference.)

8 MALE PARTICIPANT: -- which it may or
9 may not.

10 MALE PARTICIPANT: That's true.

11 MALE PARTICIPANT: It said that they
12 picked it up in Hawaii first.

13 MALE PARTICIPANT: It depends on the,
14 how the --

15 MALE PARTICIPANT: yeah?

16 (Audio interference.)

17 (Partially inaudible content omitted.)

18 MALE PARTICIPANT: They're pulling the
19 table out.

20 MALE PARTICIPANT: That changed over
21 time. They liked the table.

22 MALE PARTICIPANT: Yeah, well, but now
23 it's -- is the reason the table is no good is
24 because people don't want to read on the BlackBerry,
25 can't, so that's why they just got rid of the table.

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1 Now it just looks . . .

2 MALE PARTICIPANT: You just say it's
3 uncomfortable getting rid of the table.

4 MALE PARTICIPANT: Great.

5 (Standby 00:44:34 to 00:46:46.)

6 SCOTT MORRIS: Hey, Brian, are you
7 there?

8 BRIAN McDERMOTT: Yes, Scott.

9 SCOTT MORRIS: Hey, did you brief
10 General Fields yesterday?

11 BRIAN McDERMOTT: He never called.

12 SCOTT MORRIS: Is that right? Because
13 I didn't get any turnover on how that went, so that
14 explains it.

15 BRIAN McDERMOTT: Yes.

16 SCOTT MORRIS: So he never called in,
17 huh? All right. Well, but he has our number, so he
18 --

19 MALE PARTICIPANT: He was pretty
20 interested in it.

21 SCOTT MORRIS: Yeah, I mean -- okay.
22 That's helpful. I didn't know.

23 BRIAN McDERMOTT: He had our number and
24 we didn't have his. So it's just like if, well, if
25 he wants the information, he'll call.

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1 SCOTT MORRIS: Okay. Fair enough.

2 Thank you.

3 BRIAN McDERMOTT: He resolved the issues
4 with USAID last night. There were some calls going
5 on around, around five or six o'clock. Did you hear
6 anything about that?

7 SCOTT MORRIS: What was the issue?

8 BRIAN McDERMOTT: I, I wasn't exactly
9 sure. I, I had heard something before I had left
10 about their desire for more information from the
11 team in Japan, that they weren't really getting a
12 lot of briefings from the team and (inaudible) fact
13 that, you know, they were extremely busy, getting
14 very little sleep, and, you know, if we needed to
15 (inaudible) communication, we could help with that.
16 We might even be able to get one of their people
17 closer to our people.

18 The other aspect was a question about
19 the whole, who was paying for travel and that. And
20 I know Jim Dyer was working that issue.

21 SCOTT MORRIS: Well, I didn't get any
22 turnover on that, Brian.

23 BRIAN McDERMOTT: Okay.

24 SCOTT MOORE: There was a long
25 conversation -- this is Scott Moore, Brian -- there

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1 was a long conversation between USAID and the
2 Protective Measures Team on, on, you know,
3 worst-case postulating and, and what would be needed
4 with regard to evacuating or what could happen with
5 regard to people that could be assisting with their
6 team, and the area that's helping USAID people that
7 I guess are in Japan in areas of Japan helping with
8 the earthquake and that kind of stuff. And they
9 wanted us to speculate a lot.

10 So we just referred to the protective
11 measures team so they could try to answer their
12 questions. They wanted us to talk about when things
13 could happen and how they could happen and that kind
14 of stuff. You know, it would require us to
15 speculate a whole lot, and I think the Protective
16 Measures Team has the same problem too.

17 BRIAN McDERMOTT: And that's really
18 about measures for the team, and they're how
19 (inaudible).

20 SCOTT MOORE: You're breaking up, Brian.

21 BRIAN McDERMOTT: The interest we heard
22 from them was about what protective measures might
23 need to be taken for their team members who are out
24 doing search and recovery?

25 SCOTT MOORE: It wasn't exactly that

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1 clear. They just wanted us to kind of speculate on
2 what exactly could happen, what was the worst kind
3 of case thing that could happen based on the status
4 of the plant as we knew it. I guess I would
5 characterize it that way.

6 Did you all hear it the same way?

7 (No response.)

8 SCOTT MOORE: What USAID was asking from
9 us today.

10 MARTY VIRGILIO: Oh, the call with them
11 today?

12 SCOTT MOORE: Yeah.

13 ROY ZIMMERMAN: Yeah, what I got out of
14 it -- we kind of went around the barn a few times,
15 but they seem to have interest in trying to
16 understand if there, if we foresaw changes that were
17 going to be occurring with the units that were going
18 to have an impact in country, that would impact
19 their other activities that they were doing based on
20 rad level changes, you know, wind shifts, you know,
21 anything that was going to have a major impact on,
22 on their other activities.

23 And I'm not sure what we ultimately told
24 them through the PMT, but in the short dialogue they
25 had with us, we really weren't able to provide

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1 anything definitive because we don't, we don't know
2 whether something may occur at the site in the short
3 term that could change radiological conditions in
4 the general, in the general populace.

5 So they were looking for some sort of
6 assurance or some intel about things either changes
7 or not changing in the, in the short term and
8 there's just no guarantees.

9 BRIAN McDERMOTT: Right. Did the
10 Protective Measures Team end up completing the
11 documentation of that super-scenario or whatever
12 we're calling it?

13 SCOTT MORRIS: Yes.

14 BRIAN McDERMOTT: Okay.

15 SCOTT MORRIS: It's in the sitrep.

16 BRIAN McDERMOTT: Great.

17 (Extraneous conversation omitted.)

18 (Conference call resumed.)

19 BRIAN McDERMOTT: Yes, sir?

20 BRIAN McDERMOTT: Did the strategy
21 relative to copying Ops Center email addresses for
22 the purpose of making FOIA data collection easier
23 come up on your turnover?

24 SCOTT MORRIS: The only thing I got on
25 that was Mr. Nelson in NRR was spearheading that

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1 collection effort. But I hadn't heard anything
2 about tagging things to make it easier.

3 BRIAN McDERMOTT: I mean, NRR is doing
4 it, but everybody has to --

5 SCOTT MORRIS: Sure.

6 BRIAN McDERMOTT: -- participate.

7 SCOTT MORRIS: I haven't seen any, I
8 haven't seen any sort of protocol advertised for how
9 we should be doing that.

10 BRIAN McDERMOTT: All right. I think,
11 as things got extremely active in the middle
12 turnover last night as we were going off shift and
13 the Chairman was headed in to speak with the
14 Japanese ambassador --

15 SCOTT MORRIS: Right.

16 BRIAN McDERMOTT: -- it may have gotten
17 lost in the translation.

18 What we had worked out was, if everybody
19 who was using personal email accounts would simply
20 make sure that we have a copy that went to one Opts
21 Center accounts, then when we ask individuals to do
22 the FOIA search, they would only have (inaudible)
23 based on any personal emails. Does that make sense?

24 SCOTT MORRIS: You kind of broke up
25 there. I, I -- something got garbled.

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1 BRIAN McDERMOTT: Okay. If you include
2 one of the Ops Center email addresses on your
3 communications relative to the event --

4 SCOTT MORRIS: Right.

5 BRIAN McDERMOTT: -- then we can have
6 (inaudible) staff go through and pull all those,
7 those messages.

8 SCOTT MORRIS: Right.

9 BRIAN McDERMOTT: So that, when
10 individual staff members are asked to do a review
11 for the FOIA data, they can focus on just the
12 person-to-person ones that did not include an ops
13 center email address.

14 SCOTT MORRIS: Yeah. Yeah, that --

15 BRIAN McDERMOTT: So we're not having
16 all these people printing redundant copies of the
17 same message.

18 SCOTT MORRIS: That makes sense. It
19 would be helpful if we could get that written down
20 and shared promptly with people I guess.

21 BRIAN McDERMOTT: Yeah, we'll work that
22 today.

23 MALE PARTICIPANT: (Off mic).

24 SCOTT MORRIS: An AP Newswire came out
25 and put out a (inaudible) for everything we have,

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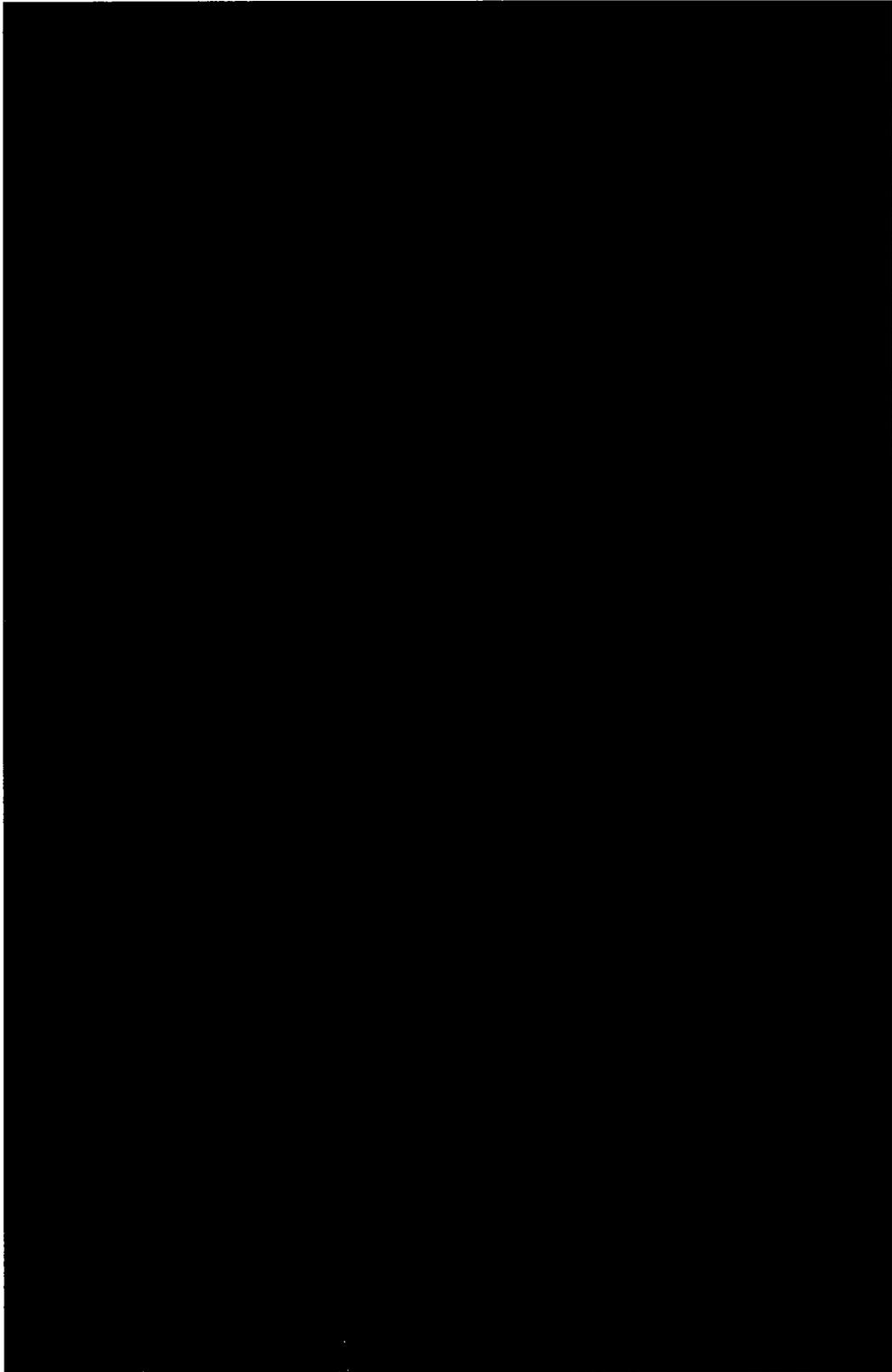
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which was --



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MALE PARTICIPANT: (Inaudible) in

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1 addition, if something like this has never actually
2 even happened, which (inaudible) is similar to our
3 design, what would we be doing if this occurred in
4 one of our facilities --

5 MALE PARTICIPANT: Yep.

6 MALE PARTICIPANT: -- which is the
7 consortium? We would have started it earlier.

8 MALE PARTICIPANT: Yeah.

9 MALE PARTICIPANT: You could have the
10 addition of (inaudible) international (inaudible)
11 starting to work that out. Initially, they weren't
12 looking for help from us, and it --

13 SCOTT MORRIS: They've already approved
14 a structure setup, so basically they're dealing with
15 (inaudible).

16 MALE PARTICIPANT: Well, some of it
17 takes creative thinking that has --

18 MALE PARTICIPANT: We were going to try
19 --

20 MALE PARTICIPANT: -- we'll learn a lot.
21 We'll learn a lot from (inaudible).

22 SCOTT MORRIS: We were to try some of
23 this out there in the (inaudible).

24 MALE PARTICIPANT: We're more than
25 ready.

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1 SCOTT MORRIS: Yeah.

2 MALE PARTICIPANT: Especially after
3 this.

4 (Partially inaudible content omitted.)

5 FEMALE PARTICIPANT: We got a FOIA slip
6 and so (inaudible) are going to send all of their
7 emails to review --

8 SCOTT MORRIS: This is protocol. You're
9 in it.

10 FEMALE PARTICIPANT: Yeah. So we're
11 going to email that to everyone.

12 MALE PARTICIPANT: Who put this
13 together?

14 SCOTT MORRIS: I was just talking to
15 Brian about this.

16 FEMALE PARTICIPANT: About the email or?

17 SCOTT MORRIS: Yeah, this guidance --

18 (Audio interference.)

19 FEMALE PARTICIPANT: I don't know. I
20 was just told to email that out.

21 SCOTT MORRIS: Just following the
22 action guide.

23 FEMALE PARTICIPANT: Yeah.

24 BRIAN McDERMOTT: Scott, did I just hear
25 we were (inaudible) our own guidance now?

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1 SCOTT MORRIS: A second (inaudible)
2 brought in. It's something that says -- let me read
3 it -- "In response to FOIA, (audio interference)
4 requests that an email account be created as a FOIA
5 drop box. In the near future, you will be required
6 to forward all emails that you have received either
7 to your personal email or HOC container emails.
8 (Inaudible) drop box, including those of you who may
9 have deleted but have the ability to restore. In
10 addition, all future emails pertaining to the
11 Japanese nuclear incident must be copied into this
12 drop box."

13 And then they give the address.

14 "A team is being assembled to ensure
15 that all forwarded communications will be reviewed.
16 Any information that qualifies for exemption (for
17 example, PII) will be redacted. Therefore, you do
18 not need to filter or redact any communications."
19 (Audio interference). That's all it says.

20 FEMALE PARTICIPANT: (Off mic) the EPA
21 website (inaudible) gives a short description of
22 what's there. We've got a whole stack of paper
23 (inaudible) administration on that.

24 (Partially inaudible content omitted.)

25 MALE PARTICIPANT: Didn't we -- on at

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1 least one or two press releases, I recall we had a
2 number of, you know --

3 FEMALE PARTICIPANT: It just gives a
4 website.

5 MALE PARTICIPANT: -- a website.

6 FEMALE PARTICIPANT: Right.

7 (Inaudible).

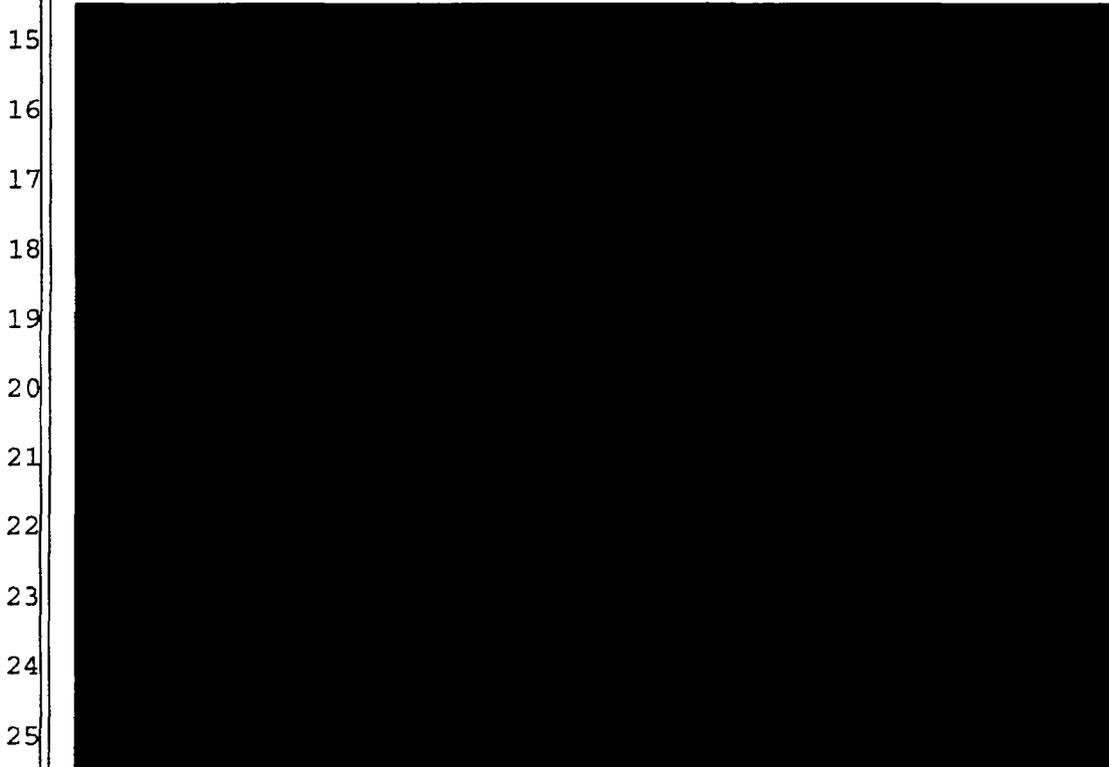
8 MALE PARTICIPANT: it seems to me like
9 (audio interference) --

10 MALE PARTICIPANT: (Inaudible).

11 MALE PARTICIPANT: Why?

12 MALE PARTICIPANT: Did you hear what
13 she's (inaudible) saying?

14 MALE PARTICIPANT: No. Why?



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5

1 [REDACTED]
2 SCOTT MORRIS: They often spin it to
3 the (inaudible).

4 (Volume increased on news broadcast.)

5 (Extraneous and partially inaudible
6 content omitted.)

7 (THE FOLLOWING TRANSCRIPT WAS OBTAINED
8 AT TRANSCRIPTS.CNN.COM) :

9 QUEST: Japan is now reporting levels of
10 radiation in some of the country's milk and spinach
11 that exceed permissible levels. And the news comes
12 while a diesel generator is powering a cooling
13 system for reactor 5 and 6 of Japan's crippled
14 nuclear power plant. Workers have drilled holes in
15 the ceiling of the nuclear reactors to release
16 explosive hydrogen gas and steam.

17 Other developments -- Friday, Japan
18 raised the nuclear crisis level. However, the IAEA
19 says the situation did not actually worsen, despite
20 that action.

21 The strategy is to try to keep spraying
22 water until electricity can be flowing to restart
23 the reactor's own cooling water pumps. The
24 engineers say they hope to have electricity flowing
25 to some of the reactors by the end of Saturday, and

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1 the rest by Sunday night.

2 CNN's Anna Coren is following the
3 developments. She is with us now from Tokyo.

4 It is clearly a still very serious,
5 grave crisis, but is there a feeling there that
6 things have taken a turn for the better?

7 ANNA COREN, CNN INTERNATIONAL

8 CORRESPONDENT: Richard, I think it's fair to say
9 that there's a feeling that things have stabilized,
10 and I think that is certainly encouraging. We know
11 that the government has come out today and said that
12 reactors 1, 2 and 3 have stabilized. They are
13 happy, I guess you could say, with the water levels
14 in those cooling tanks, and that is where those
15 spent nuclear rods are, and they are the concern.
16 So they need to be covered in water. Otherwise,
17 they are emitting this radioactive material. So
18 water levels are satisfactory, I guess you could
19 say.

20 But one official has come out and said
21 that, Of course, we know that the situation is
22 unpredictable. You mentioned a little earlier that
23 holes have been drilled in the ceilings of reactors
24 5 and 6. We also know that power is going to both
25 those reactors because of a backup generator that

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1 was repaired.

2 They were hoping to get the power lines
3 connected to reactor 2. It has so far reached the
4 substation. That is the reports that we are
5 receiving. It has yet to get to reactor 2. But if
6 that does happen, it will be able to supply power to
7 both reactors 1 and 2, and then, hopefully, later
8 on, reactors 3 and 4. If that power is restored,
9 then they'll be able to get the pumps going.

10 And as you say, that water, going into
11 those pools. At the moment, the water is coming
12 from outside, from on the ground. Those forces,
13 those military, the police, the fire department --
14 they are outside in these fire trucks 15 in total of
15 the trucks being used to spray water.

16 And then, of course, there is that
17 super-pumper that we mentioned a little earlier, and
18 that is directly sucking water out of the ocean and
19 then spraying it via a 22-meter extended arm off one
20 of these tankers directly into reactor 3. That
21 reactor is still the number one priority. They need
22 to keep that cool. That, of course, is where the
23 hydrogen fire occurred. That is where that
24 explosion took place. So they just need to continue
25 cooling the situation from outside but also from

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1 within -- Richard.

2 QUEST: And this report on milk and
3 spinach that is contaminated -- what are you hearing
4 about that?

5 COREN: The chief cabinet secretary,
6 Edano -- he came out this afternoon, addressed the
7 media, saying that they have found higher levels of
8 radiation in milk and spinach. And of course, that
9 always sets off alarm bells when people hear that.
10 He said that as far as milk, the source of that was
11 some 30 kilometers from the Fukushima Daiichi
12 nuclear power plant. Spinach -- that was a little
13 bit further out.

14 But before we get carried away and
15 become quite alarmed about the situation, we should
16 note that you would have to drink a year's worth of
17 milk for it to be the equivalent of undergoing a CT
18 scan. That's how much radiation that you would take
19 in. So that is what we know at the moment. The
20 government has launched a thorough investigation
21 because they want to know if other foods have been
22 affected, where the sources are, and if so, that
23 needs to be banned.

24 Let's have a listen to what the cabinet
25 minister, Edano, had to say a little earlier.

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1 (BEGIN VIDEO CLIP)

2 YUKIO EDANO, JAPANESE CHIEF CABINET

3 SECRETARY (through translator): In Fukushima
4 prefecture, the milk that is produced and spinach
5 that is grown in Ibaraki prefecture, the samples of
6 these food products recorded radiation level that is
7 over the limit stipulated in food safety law.

8 (END VIDEO CLIP)

9 COREN; Now, the chief cabinet secretary
10 -- he said that he cannot confirm whether those
11 higher radiation levels were coming from the nuclear
12 power plant. And he said there certainly was a high
13 possibility -- Richard.

14 QUEST: Anna Coren, who is in Tokyo this
15 evening. Not everyone in Japan is so sure that
16 officials are telling them the truth. And that, of
17 course, breeds suspicion and fear. Our senior
18 international correspondent, Stan Grant, explains
19 rumors and distrust are taking a deep psychological
20 toll on the Japanese people.

21 (BEGIN VIDEOTAPE)

22 STAN GRANT, CNN INTERNATIONAL

23 CORRESPONDENT (voice-over): A stricken nuclear
24 plant, talk of meltdown, radiation leaking, fire and
25 explosions -- no wonder people are scared. Terumi

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1 Tanaka survived the atomic bomb of Nagasaki. He
2 knows about nuclear fear and suspects people here
3 are not getting the truth.

4 The company is hiding information, he
5 says. They're not telling the truth. He says
6 radioactive substances are spewing out of the plant,
7 but they're not coming clean about the dangers.

8 Some U.S. officials have even
9 questioned the Japanese government's radiation
10 readings. Each new crisis has officials here
11 scrambling for answers, reassurances day after day
12 that no one is at risk.

13 YUKIO EDANO, JAPANESE CHIEF CABINET
14 SECRETARY (through translator): The radiation
15 measurement has not been serious, serious enough as
16 to have health effects. Although some readings are
17 high, but these values are not the ones that pose
18 direct human threat today. But this all depends on
19 other conditions, environmental monitoring
20 conditions.

21 GRANT: To critics, the official response
22 is often too little and too late. But beyond the
23 mistrust is often misinformation. Dan Pulanski (ph)
24 specializes in weapons of mass destruction and knows
25 about radiation. He says science and fact get lost

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1 in panic, "radiophobia."

2 DAN PULANSKI, RADIATION EXPERT: What
3 radiophobia is, is people hear that word radiation,
4 and immediately think of the worst case scenario,
5 that they're going to, you know --

6 GRANT (on camera): We're all going to
7 die.

8 PULANSKI: We're all going to die. We're
9 all going to turn into Toxic Avenger and start
10 mutating.

11 GRANT (voice-over): Fact, Fukushima is
12 no Chernobyl. Not yet, anyway. In the Soviet
13 reactor, workers died within weeks. In the final
14 phase of that disaster, radiation hit levels of
15 6,000 millisieverts an hour. Fukushima Daiichi's
16 peak has been 400 millisieverts per hour, and that's
17 at the red-hot center of the plant itself. Nuclear
18 industry figures show you need more than double that
19 before you get radiation sickness. Even for the
20 heroic workers, prolonged exposure, says Dan
21 Pulanski, could make them sick, but not kill.

22 (on camera): Sounds scary, 400. Is it?

23 PULANSKI: No, it's not. It sounds
24 scary, but it's not.

25 GRANT (voice-over): And here's another

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1 thing. Radiation levels peak and drop within
2 minutes, and depend on the distance from the hot
3 zone.

4 (on camera): Imagine this intersection
5 is the perimeter of the Daiichi nuclear plant. I'm
6 standing here at one of the reactor sites, I get a
7 high radiation reading. But crossing to the other
8 side, to the front gates, say 30, 40 meters away,
9 and according to the official readings, it could be
10 significantly lower.

11 (voice-over): But that all depends on
12 the quality of information, information people
13 simply often don't trust in the face of crisis,
14 fact, whispers, and fear screams (ph). Stan Grant,
15 CNN, Tokyo.

16 (END VIDEOTAPE)

17 QUEST: Whether it is in Japan or in
18 Libya, because the news never stops, neither do we.
19 This is CNN.

20 (COMMERCIAL BREAK.)

21 (End transcript.)

22 MALE PARTICIPANT: The HOOs are planning
23 to make a phone call for the seven o'clock.

24 SCOTT MORRIS: Okay.

25 MALE PARTICIPANT: What they will do is

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1 they will bring the CAs up on the bridge in here at
2 730.

3 SCOTT MORRIS: Okay.

4 MALE PARTICIPANT: They will put the
5 other folks on a separate bridge in a holding room.

6 SCOTT MORRIS: Right.

7 (Extraneous content omitted.)

8 MALE PARTICIPANT: Kathy was briefing me
9 on rad maps.

10 SCOTT MORRIS: EPA?

11 MALE PARTICIPANT: Yeah.

12 SCOTT MORRIS: Okay.

13 FEMALE PARTICIPANT: The suggestion is
14 that we add this website to our list of websites
15 that we have listed in the blog, and that's what
16 people can refer to.

17 MALE PARTICIPANT: Have you gone to it
18 to see what information we get off of it now?

19 FEMALE PARTICIPANT: Yeah. Yeah, it's
20 good. It has a description of what's there. If, if
21 you -- it gives an explanation of what beta is and
22 what gamma is, minor fluctuations of the data, a
23 data summary. And then you can click on cities that
24 you're interested in.

25 MALE PARTICIPANT: And it'll give you

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1 readings? That's good.

2 FEMALE PARTICIPANT: It gives you this.

3 MALE PARTICIPANT: That's good.

4 FEMALE PARTICIPANT: And then they say,
5 "These levels are (inaudible) conservative level of
6 concern.

7 MALE PARTICIPANT: Yeah, we probably
8 ought to (inaudible) OTA now.

9 FEMALE PARTICIPANT: So there's
10 Anchorage --

11 MALE PARTICIPANT: What we're giving.
12 What we're putting up.

13 SCOTT MORRIS: Is that in Hawaii, or?

14 MALE PARTICIPANT: I think it's good.
15 Does that, I mean, does it have the new stations in
16 Oregon and Washington and all that they've been
17 putting up?

18 FEMALE PARTICIPANT: It has (audio
19 interference) --

20 MALE PARTICIPANT: It has the Oregon --

21 FEMALE PARTICIPANT: -- Alaska,
22 California, Hawaii --

23 MALE PARTICIPANT: I know Oregon and
24 Washington --

25 FEMALE PARTICIPANT: -- Oregon and

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1 Washington.

2 MALE PARTICIPANT: Okay, great. Yeah.
3 Now all we've got to do is put OTA that we're
4 putting it up. Maybe we'll send them an email or
5 send them a copy of the link to the website.

6 MALE PARTICIPANT: Is OTA on there?

7 SCOTT MORRIS: No. They're in their
8 own --

9 FEMALE PARTICIPANT: Here. Here's
10 direction here.

11 SCOTT MORRIS: They're not here right
12 now.

13 FEMALE PARTICIPANT: I mean, you have
14 to, you have to register to get in there and get the
15 data.

16 MALE PARTICIPANT: Okay. That's good.

17 SCOTT MORRIS: The OTA is just a small
18 organization, but that then they got 24/7
19 (inaudible).

20 MALE PARTICIPANT: That's good.

21 MALE PARTICIPANT: So do we just send
22 them an email?

23 MALE PARTICIPANT: Oh, that's what we
24 need to do for the website.

25 So why don't you send them an email on

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1 what's the status.

2 FEMALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: And let them know the
4 link. And then also suggest that they might want to
5 put (audio interference) central link in, a central
6 link in the email.

7 FEMALE PARTICIPANT: Okay. Let me go
8 get --

9 MALE PARTICIPANT: (Inaudible) just to
10 say, we did that, we provided technical information
11 to the US Ambassador to Japan and the Japanese
12 Government?

13 MALE PARTICIPANT: That doesn't, that
14 doesn't matter. I made an edit, so she probably just
15 thought that was --

16 MALE PARTICIPANT: Yeah.

17 (Partially inaudible content omitted.)

18 MALE PARTICIPANT: Also, the wind's
19 going to shift on Sunday from nine to six toward
20 Tokyo.

21 MALE PARTICIPANT: Yeah, that's not
22 good.

23 MALE PARTICIPANT: No.

24 (Standby.)

25 ROY ZIMMERMAN: When are we going to

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1 pick out the government attendees for the, for the
2 meeting tomorrow?

3 MARTY VIRGILIO: For the meeting
4 tomorrow, we wrote down that GE is coming, INPO's
5 coming, Areva's coming (inaudible). Is the State
6 Department coming?

7 MALE PARTICIPANT: They're not -- we
8 didn't invite the State Department.

9 MARTY VIRGILIO: Oh, we did not?

10 MALE PARTICIPANT: No.

11 MARTY VIRGILIO: Okay. We didn't --

12 MALE PARTICIPANT: (Inaudible) anybody.
13 The DOE, we didn't invite those folks.

14 MALE PARTICIPANT: But I thought we, we,
15 I thought we agreed that we would take them in a
16 subsequent meeting.

17 MALE PARTICIPANT: We'd keep them
18 informed, but we weren't going to try to anticipate
19 any --

20 MALE PARTICIPANT: Okay. This meeting
21 is just the stakeholders then.

22 ROY ZIMMERMAN: Jim Lyons is coming
23 though, isn't he?

24 MALE PARTICIPANT: DOE. Yeah, people
25 will be here from DOE and Naval Reactors.

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1 ROY ZIMMERMAN: (Inaudible) leave it
2 pending.

3 MALE PARTICIPANT: And naval reactors.
4 (Extraneous and partially inaudible
5 content omitted.)
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1 (CONFERENCE CALL INITIATED.)

2 01:19:12/01:30:58

3 JIM WIGGINS: Good morning. This is Jim
4 Wiggins. Are we ready? Are we on?

5 MALE PARTICIPANT: Yes.

6 SCOTT MORRIS: Okay. Let's, we'll
7 start the 7:30 brief. Just for a little bit of
8 housekeeping, we only have until 7:45. We have to
9 move to another, another important activity at 7:45.

10 So we'll go through the brief. We'll try to answer
11 as many questions as we can during the brief. If
12 there are other residual questions, I'd ask that you
13 would email it to me, Jim Wiggins, here in the Ops
14 Center and we'll take it from there.

15 So basically, let's start off with a
16 facility status, and Brian McDermott will do that.

17 BRIAN McDERMOTT: Okay. I'm Brian
18 McDermott. Essentially, no significant changes in
19 what we know about the units or what we anticipated
20 yesterday.

21 Working down the list, Unit 1 remains
22 the same. We did put out a status at 0600, and
23 that's what I'm working down, just for those of you
24 who were wondering.

25 Unit 2 -- one update there. .Tepco has

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1 put out in their press release that they have
2 connected power to a, the auxiliary transformer and
3 they're working to put that to a temporary set of
4 bus work, or switchgear rather. No further details
5 on specifics about their focus in terms of how
6 they're going to use that power. We did hear
7 through the day yesterday that one of the issues
8 they were looking to do was restore some of the HVAC
9 systems for control rooms to provide some protection
10 for their folks.

11 On Unit 3, we did have reports yesterday
12 -- it was in the media; also reported by METI --
13 that they were spraying water from fire trucks on
14 the pool periodically. No specific details beyond
15 that.

16 Moving down the list, no change on Unit
17 4.

18 Unit 5 -- they did have indication there
19 that they saved some fire, firefighting equipment
20 there, in case, but right now, we haven't seen
21 anything that would indicate that they needed to use
22 that so far. It was reported that the diesel
23 generator from Unit 6 is still available. It is
24 being shared between those two units.

25 There were questions about the common

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1 wet spent fuel pool, and it indicates -- we saw a
2 report from the company's update that they've done
3 inspections of not only the wet pool but also the
4 separately located dry cask storage, and no problems
5 were identified.

6 That's it for the units.

7 JIM WIGGINS: Jim. Okay. For
8 protective measures, Mike.

9 MIKE WEBER: All right. Okay. First,
10 we provided to NARAC some source term for a
11 realistic worst-case scenario. They have some
12 concerns about how long it would take to tie up the
13 computer for them to run it as provided. They would
14 prefer to assume a 24-hour release period as opposed
15 to the exact time that we provided to them. We'll
16 continue to talk with them about a rundown of that
17 analysis.

18 We have some information from San
19 Onofre. They reported, provided some sample results
20 for iodine. They collected these from 1.7 in the
21 morning, until about 10 o'clock in the morning, a
22 318. Levels at NDA minimal detectable activity --
23 the actual values were 1.79. That's 10^{-13}
24 microcuries per cc, iodine. Similarly, for SONGS,
25 1.4, we've got 10^{-13} microcuries per cc, again, you

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1 know, NDA values. They're going to continue to
2 collect samples about every four hours.

3 We did receive some data of actual
4 measured dose rates from various cities around
5 Japan. The PMT will be evaluating those measured
6 dose rates from the Japanese ministry for use as we
7 continue to look at the calculations.

8 Last evening, Trish Holahan reported
9 that, based upon DOE aerial measurement, the team
10 findings for flyovers, there, there's some ground
11 deposition in the northwest quadrant to the plant
12 site. We're continuing to try to get more on-site
13 data. We don't have much data at this point, but
14 we're talking to NISA and our on-site team as well
15 as Tepco to try to get more actual measurements
16 on-site.

17 And the last thing I would point out is
18 that the meteorological forecast for the next 48
19 hours, a period of March 19 through March 21,
20 indicates the wind is headed offshore until Sunday
21 with a shift counterclockwise to on-shore expected
22 around 9:00 a.m. This onshore shift remains, is
23 predicted to last about 12 hours before shifting
24 back offshore. We're going to be running some
25 additional analysis this morning to try to better

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1 understand the preciseness of those, of that
2 timeframe and wind change.

3 That's all I have.

4 JIM WIGGINS: And some other issues
5 overall. The site team on the site team in country
6 continues to work. We've identified a relief watch
7 bill for the site team, and individuals will start,
8 starting today, to transit over to Japan to provide
9 reliefs.

10 Dan Dorman is going out today. He
11 should provide some senior relief to Chuck Casto
12 possibly later in the week. He will be in place and
13 up, and up and operating.

14 But we do have a rather bold watch bill
15 that's made up of skill sets that we coordinated
16 with Chuck, and we've put together the people within
17 the agency that could fill the bill.

18 We're still preparing for a commission
19 meeting on Monday that would focus on support for
20 Japan, looking at US reactors and a justification on
21 why they can, should be, and are continuing to
22 operate, and a discussion of severe accident
23 management and B5B approaches. That's basically
24 what was going to be discussed.

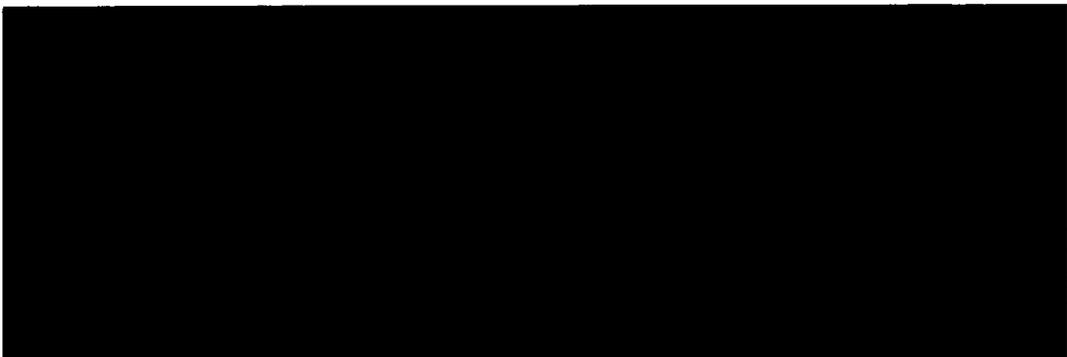
25 As we continue to follow the efforts of

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1 the operators in Japan, we've become aware that
2 Tepco has raised concerns internally about the
3 potential longer-term effects of seawater on their
4 components. Now I'm not talking about recovery of
5 the facilities but whether there will be cause for
6 further degradation based on use of seawater. Our
7 research office is getting into that to support
8 Chuck and the team.

9 Bechtel's making progress towards
10 accumulating the equipment needed for their
11 four-train temporary pumping system. We don't have
12 a status on Tepco's parallel efforts, but we do
13 understand that there may be parallel effort under
14 way at Tepco, although we do get a sense that that
15 those focus back on the vessels rather than the
16 pools. And we'll have to come to grips with that
17 and work with Chuck's team to decide whether we want
18 to provide some very specific advice to the, through
19 the ambassador on whether we think that's the right
20 priority.



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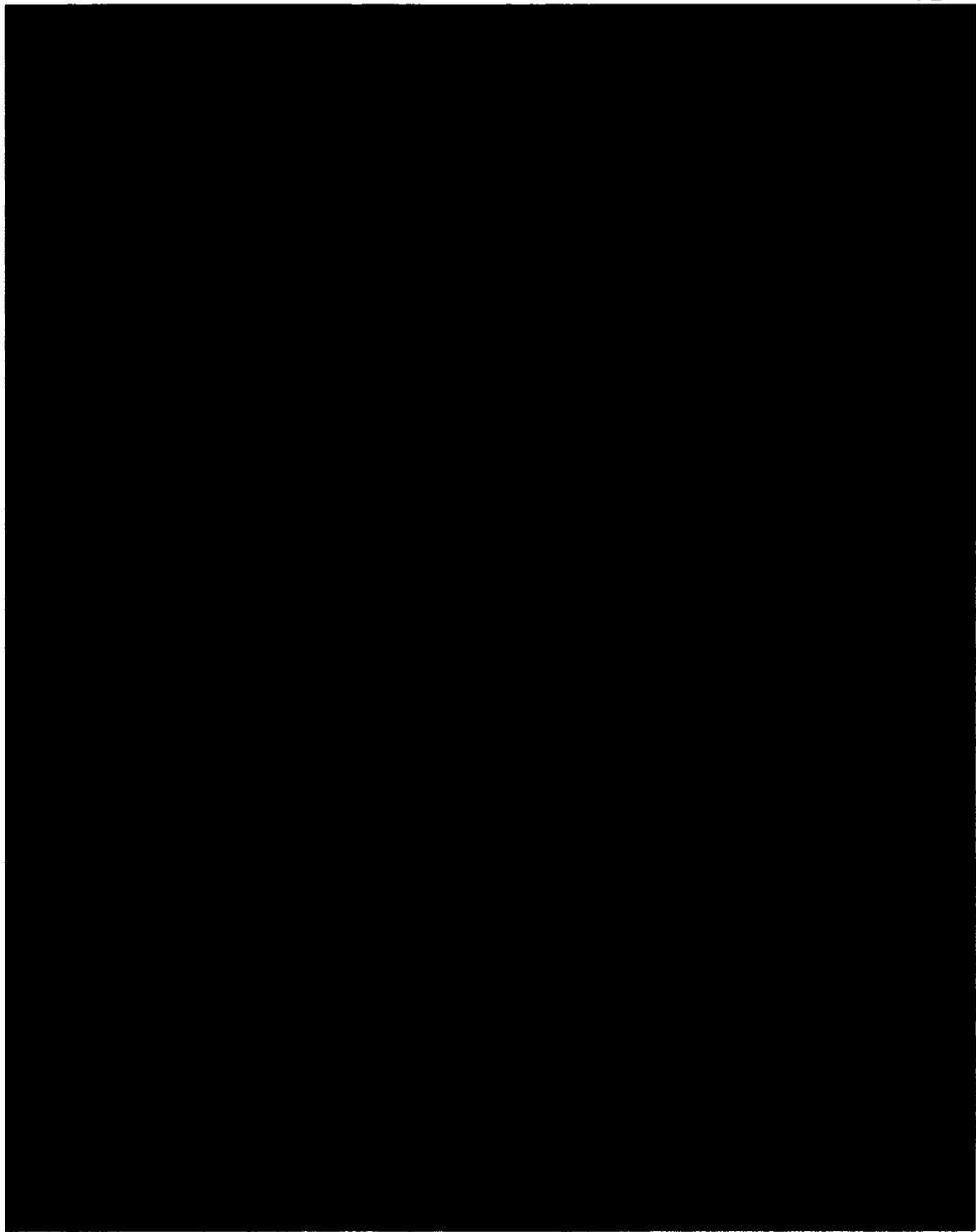
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This consortium includes not only NRC operating licensee Exelon, but it includes EPRI, Areva, and other amenities that would have both practical engineering experience in the field plus also what I would characterize as implementation experience.

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1 Our discussions with Chuck's folks and
2 our reckoning here is we do great at licensing, so
3 we can analyze the appropriateness of a plan, but
4 when you get to the point of asking questions about,
5 or providing suggestions about how to effectuate the
6 change -- like how to install systems and how many
7 people would you need to install this Bechtel system
8 -- we like that expertise. Industry can certainly
9 fill the bill.

10 Okay, that's the end of our prepared
11 remarks. We've got about five minutes for
12 questions.

13 (No response.)

14 JIM WIGGINS: Any questions? I'd like
15 to hear some noise. Will somebody just say
16 something so that we know that the line's live?

17 PAT CASTLEMAN: Yeah. This is Pat
18 Castleman. This was a good briefing. I have no
19 questions.

20 JIM WIGGINS: All right. Thanks, Pat.
21 At least we know -- we haven't heard anything from
22 you guys, so we wondering if we were actually
23 connected.

24 BILL ORDERS: Jim, this is Bill Orders.
25 I have one comment.

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1 JIM WIGGINS: Yes, sir?

2 BILL ORDERS: The only comment that I
3 have is there continues to be reports that Unit 4's
4 spent fuel pool does have water. It seems like our
5 recommendations for dose from the Unit 4 spent fuel
6 pool is very conservative, given that.

7 JIM WIGGINS: I wouldn't go to the bank
8 on water. [REDACTED] [REDACTED] [REDACTED]

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15 And I, I'm not even thinking that Tepco
16 thinks the pool's anywhere near full. So to say
17 that there's water in it doesn't mean -- even if
18 there were water in the pool, Chuck, I don't know
19 that there's enough to make a damn bit of
20 difference.

21 We're behaving and operating under the
22 idea that it isn't, that it's dry.

23 BILL ORDERS: I understand.

24 JIM WIGGINS: It may be conservative in
25 the end. We'll know as this gets unraveled, but

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1 it's probably the best we can do, given the
2 information that we have.

3 All right. Thank you for your time.
4 This will terminate the briefing.

5 MALE PARTICIPANT: Thank you for the
6 brief.

7 MALE PARTICIPANT: Thank you.
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1 (CONFERENCE CALL INITIATED.)

2 01:31:20/01:44:42

3 CHUCK CASTO: Hey, Jim, this is Chuck
4 Casto. Are you guys on?

5 JIM WIGGINS: Hi, Chuck. We're here.

6 CHUCK CASTO: Chuck. Okay. I just
7 didn't know if it -- I had to go to another bridge
8 for the --

9 JIM WIGGINS: It's 7:45. You're right
10 where you need to be.

11 CHUCK CASTO: All right. I feel
12 comfortable now.

13 JIM WIGGINS: I would say good morning,
14 but it's good evening. How are you doing this
15 evening? Did you get any --

16 CHUCK CASTO: Oh, we're doing great.
17 How's everything back there?

18 JIM WIGGINS: Oh, whatever. It's not as
19 frantic as it was at, you know, at 3:45 our time
20 yesterday afternoon when we had to rack you out.
21 Sorry about that.

22 CHUCK CASTO: Yeah, I know. I, what
23 I've been saying is, today is the craziest day ever
24 in my life, until tomorrow.

25 JIM WIGGINS: Yes, you got it. It's, I

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1 don't think it's going to ameliorate itself until
2 things get stable out there.

3 So, anyhow, we had this request that
4 apparently came [REDACTED] about how
5 many people do you think that Pepco needed, men.
6 That's, that's kind of the --

7 MALE PARTICIPANT: (Off mic).

8 JIM WIGGINS: -- yeah, that's sort of,
9 somewhat outside of, of what our area of expertise
10 was, so we had to scramble late to kind of come up
11 with something. That's why we had to get you up.

12
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16 JIM WIGGINS: Okay, sir. We've got
17 others coming up on the bridge, and then Marty will
18 take over.

19 (Standby 01:32:45 to 01:33:04).

20 BRIAN McDERMOTT: This is Brian
21 McDermott. I'm on.

22 JIM WIGGINS: Thanks, Brian. We're just
23 getting organized here.

24 (Standby 01:33:05 to 01:33:16.)

25 MIKE: I don't think you can do an

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1 automatic roll call because we weren't asked for our
2 names.

3 JIM WIGGINS: Okay. Hey, Mike.

4 We'll just go around and see what
5 offices we have represented.

6 Research?

7 MALE PARTICIPANT: Yeah.

8 JIM WIGGINS: NRR?

9 ERIC LEEDS: Eric Leeds.

10 JIM WIGGINS: INSR's (inaudible) were
11 here)

12 OPA?

13 ELIOT BRENNER: Eliot Brenner.

14 JIM WIGGINS: OTC?

15 (No response.)

16 JIM WIGGINS: Anyone from OTC?

17 (No response.)

18 JIM WIGGINS: Okay. The site team -- I
19 know Chuck's there.

20 IT?

21 NADER MAMISH: Nader Mamish.

22 JIM WIGGINS: Hey, Nader. Could be --
23 Larry's here. He'd probably --

24 CHARLIE MILLER: Yeah, I'm also here,
25 Jim.

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1 JIM WIGGINS: All right, Charlie.

2 OTA?

3 MALE PARTICIPANT: I'm here.

4 JIM WIGGINS: And we've got the
5 Commission, this -- the Chairman's office?

6 JOSH BASKIN: Joshua C. Baskin here.

7 JIM WIGGINS: Okay. And OEDO -- Marty's
8 got it, so --

9 MALE PARTICIPANT: No, it should be Jim
10 Anderson on the line too.

11 MALE PARTICIPANT: OGC's on the way.

12 JIM WIGGINS: Okay.

13 MR. FERNS: Ferns.

14 JIM WIGGINS: (Inaudible) Ferns. All
15 right.

16 How about EDO's office?

17 MIKE WEBER: Mike Weber.

18 BILL BORCHARDT: Bill Borchardt.

19 JIM WIGGINS: Good.

20 We've got the list of the offices on
21 here.

22 MARTY VIRGILIO: All right. Let's,
23 let's go ahead and get started, and thanks to
24 everybody for, for their participation in this early
25 morning call. It's Marty Virgilio.

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1 I just want to give you a little
2 background on where we're headed today and maybe for
3 the next several weeks and several months.

4 Based on the conditions at the Fukushima
5 Daiichi site and the interactions that we've had
6 with Tepco, the Ministry of Defense, and NISA, the
7 Chairman reached out last night to Naval Reactors
8 and INPO to discuss a new direction in our approach
9 to addressing this issue. In short, this new
10 direction involves a consortium of industry and
11 government to develop and implement actions that
12 will terminate the event at Fukushima.

13 Now, now think about the Deepwater
14 Horizon and how industry and government came
15 together to address that issue and terminate the,
16 the, the leak. And I think that's the model that
17 I've got in mind as to how this will work.

18 Each of you should have received an
19 email with an agenda for a kickoff meeting that
20 we're going to have here in Headquarters at two
21 o'clock this afternoon in the ACRS meeting room.
22 The purpose of this call is just to ask you to
23 either commit to this meeting or commit to having
24 somebody from your office participate in the
25 meeting. And in my mind, I'm thinking that the

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1 commitment to have somebody participate for you
2 would be at the division director level or above.

3 I also want to take the opportunity to
4 answer any questions you might have about the
5 logistics or how we would define success for this
6 meeting.

7 In addition to the agenda for the
8 meeting, we prepared a detailed background book for
9 each of the meeting participants, so that'll be
10 there on your chair when you arrive at the meeting.

11 Participants for the meeting include
12 INPO, Exelon, General Electric, EPRI, Bechtel,
13 Areva, Babcock, Naval Reactors, and Department of
14 Energy, as, as well as you all, or representatives
15 from the NRC.

16 We have a purpose in our mind, and it's
17 really to just plan for and initiate the consortium.

18 We've defined success for the meeting as aligning
19 on an approach for addressing the technical,
20 logistical, and political issues that we're dealing
21 with in addressing and resolving, terminating, the
22 accident.

23 We've, we've defined a process that
24 includes briefing for the participants on the status
25 of the site, and most importantly, I think, a

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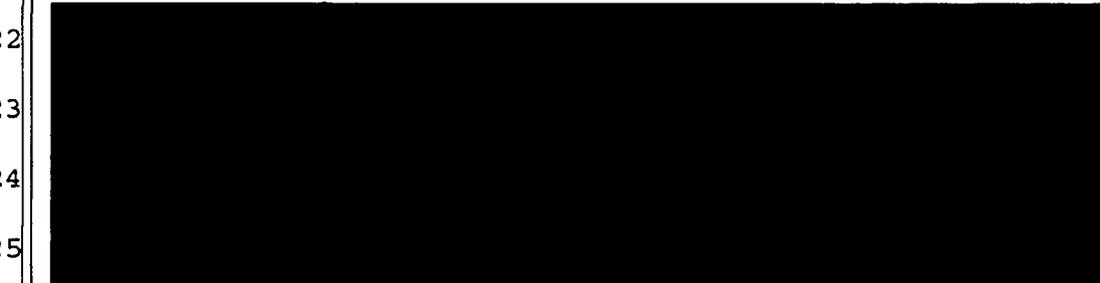
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1 briefing from the site team on the relationship
2 between the various Japanese government and private
3 sector organizations. And you need to understand
4 the roles, responsibilities, and decision-making
5 authorities as we understand them today.

6 We're going to ask GE and Bechtel to
7 give us a briefing on the current status of their
8 design for providing water to the spent fuel pool.
9 We're going to, we'll ask INPO and [REDACTED] to
10 facilitate a discussion amongst the industry
11 representatives on the capabilities that they can
12 bring to bear on, in the near-term not only in
13 designing but also in implementing solutions to the
14 problems that we face.

15 We're going to have an open discussion
16 on what we think might be applicable (sic) actions
17 and strategies, what priorities that we think we
18 ought to establish for terminating the event and
19 gaining control over the situation. We want to have
20 an open discussion about the challenges that need to
21 be addressed.



6

4

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 The final thing that I think we need to
8 get decided at the meeting and resolved is roles and
9 responsibilities for the participants. I could see
10 us formulating a charter that would be somewhat
11 similar to what we get with Chuck, maybe one page,
12 recognizing that as conditions improve, the charter
13 will evolve and the roles and responsibilities will
14 evolve to a point that I think we'll be out of, out
15 of this and maybe some other government organization
16 will be in a leadership role.

17 I think that's pretty much what I wanted
18 to say, and I'm pretty, I think -- I'm available to
19 any answer any questions you might have at this
20 point.

21 CHARLIE MILLER: Marty, this is Charlie.
22 Most of my senior managers are on shift, so I'll
23 come in and cover the meeting.

24 MARTY VIRGILIO: Okay. Thanks, Charlie.

25 BRIAN McDERMOTT: Marty, this is Brian.

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1 I've got the three o'clock to 11 o'clock shift in
2 the ET. Should I be at this meeting? And is -- you
3 know, in other words, should I do double duty or
4 should I try to find a division director?

5 JIM WIGGINS: Brian, I'll stick around
6 and hold it until you're done. Why don't you come
7 into the meeting then.

8 BRIAN McDERMOTT: Okay. Thanks.

9 MARTY VIRGILIO: I think you've got --
10 in the background book, you'll see a lot of
11 information that Jennifer prepared for you, Brian,
12 on some of the issues that I think we see with
13 respect to the challenges that we face.

14 BRIAN McDERMOTT: Okay.

15 MARTY VIRGILIO: So I think it's
16 critical that either you or somebody that --

17 BRIAN McDERMOTT: All right. Well,
18 maybe I, I'll come in a little early and go through
19 that briefing book real quick before the two-o'clock
20 then.

21 MARTY VIRGILIO: Okay. Good.

22 Others?

23 STEVE: This is Steve. I've, I'm
24 presuming that you all have decided to chuck the
25 open meeting policy.

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1 MARTY VIRGILIO: There's no -- well,
2 hopefully you can find a reason why, in light of the
3 fact we're making no regulatory decisions that
4 involve any NRC licensees, that we can do this.

5 STEVE: All right. And the other thing,
6 and I suppose this will be somewhat discussed, is
7 DOE or NRC in the leadership role on -- that sounds
8 operational to me. Is NRC or DOE, is the intention
9 NRC or DOE to be the lead on this in terms of the
10 government end?

11 MARTY VIRGILIO: Well, we'll discuss
12 roles and responsibilities at the meeting, but I can
13 see that NRC might have a leadership role for a very
14 brief period of time until the reactor and spent
15 fuel pool is stabilized, at which time we would turn
16 it over to DOE.

17 But I think, Steve, that's something to
18 discuss at the meeting.

19 STEVE: All right.

20 BILL BORCHARDT: Yeah, this is Bill.
21 Steve, that's a really good point. I intend to call
22 the Chairman this morning. I think we need to get
23 some alignment on NRC's role moving forward.

24 STEVE: Right.

25 ELIOT BRENNER: Yeah, it's Elliot. I've

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1 got the same issue because there's going to have to
2 be a focal point for this on the public safe side.

3 MARTY VIRGILIO: Yeah. The Thad Allen,
4 you know, who represents the government in this
5 endeavor.

6 MIKE WEBER: Marty, this is Mike. Did
7 you Jim Dyer involved?

8 MARTY VIRGILIO: No, I didn't. There,
9 there are a lot of stakeholders. There are a lot of
10 people that need to be informed, but for this
11 meeting, I thought that we could keep it to a, to a
12 manageable subset.

13 MIKE WEBER: Okay. I was just thinking
14 about the financial ramifications.

15 MARTY VIRGILIO: USAID is, as I see it,
16 is, is holding the purse strings on this.

17 MIKE WEBER: Yeah, they have a different
18 view or potentially different view.

19 NADER MAMISH: This is Nader. I had a
20 lengthy discussion with Dyer and we got alignment.
21 It's not going to be USAID. It's going to be, it's
22 going to be the NRC, and he's going to asking for
23 some funding.

24 MARTY VIRGILIO: Okay. Additional
25 funding from Congress?

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1 NADER MAMISH: Yeah. He's going to be
2 looking at additional funding. It's going to be
3 characterized as assistance and -- well, I can
4 explain later.

5 MARTY VIRGILIO: Okay.

6 STEVE: Yeah, I think you're right. It,
7 it might be good at least to give Dyer the option.

8 MARTY VIRGILIO: We will. Thank you.

9 MALE PARTICIPANT: Hey, Marty, again,
10 it's in the ACRS room?

11 MARTY VIRGILIO: Yeah.

12 MALE PARTICIPANT: Yeah. Sorry. I just
13 blanked.

14 MARTY VIRGILIO: Yeah. Yeah.

15 MALE PARTICIPANT: And Marty, did I hear
16 two o'clock?

17 MARTY VIRGILIO: Two o'clock.

18 MALE PARTICIPANT: Okay. We'll be
19 there.

20 BILL BORCHARDT: Yeah, I don't want into
21 a long, protracted discussion because this is the
22 subject of the two o'clock meeting, perhaps, but I
23 think Nader just mentioned a very important word,
24 which is "assistance."

25 You know, the way we're talking about

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1 it, the vocabulary we're using is like we have the
2 lead, like this is a US reactor that, that we're
3 trying to fix. And I want to make sure that
4 whatever materials we have for the meeting
5 participants has that concept that we're providing
6 assistance in the proper context.

7 MARTY VIRGILIO: We'll look at the
8 briefing book with that in mind, Bill.

9 BILL BORCHARDT: Okay. Thanks.

10 Do you, do we know if the Chairman, has
11 the Chairman called in this morning, or?

12 MARTY VIRGILIO: We haven't heard from
13 him yet this morning.

14 BILL BORCHARDT: Okay. Was somebody,
15 was Josh or somebody from the Chairman's office on
16 this call?

17 JIM WIGGINS: Yes.

18 MARTY VIRGILIO: Yeah.

19 JOSH BASKIN: I'm on. Bill.

20 BILL BORCHARDT: All right, Josh. I'll
21 give you call in a minute. All right?

22 JOSH BASKIN: Okay.

23 BILL BORCHARDT: All right. Thanks,
24 Marty.

25 MARTY VIRGILIO: Okay. Thank you all.

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MALE PARTICIPANT: All right.

MALE PARTICIPANT: Thank you.

MALE PARTICIPANT: Thank you.

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(CONFERENCE CALL INITIATED.)

01:45:10/01:45:26

(Extraneous conference call omitted.)

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1 (CONFERENCE CALL INITIATED.)

2 01:45:30/01:47:44

3 JIM WIGGINS: Nader.

4 NADER MAMISH: Yes?

5 JIM WIGGINS: Hi. It's Jim Wiggins, the
6 ET.

7 NADER MAMISH: Hey, Jim.

8 JIM WIGGINS: You got a number of
9 people. Bill Borchardt's here too. Mike Kemper
10 (phon), Brian McDermott, and others.

11 We need your advice.

12 NADER MAMISH: Okay.

13 JIM WIGGINS: Let me complete an email
14 to Chuck.

15 We just hit another logjam in the saga
16 of the Bechtel equipment.

17 NADER MAMISH: Okay.

18 JIM WIGGINS: That's one train of
19 Bechtel equipment loaded in an Australian C-17 with
20 a flight crew ready to go, except there's a snag.
21 Apparently, the cost has gone up from whatever,
22 \$750K to \$2.4 million --

23 MALE PARTICIPANT: Total.

24 JIM WIGGINS: -- total.

25 NADER MAMISH: I'm sorry -- \$750K?

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1 (Simultaneous conversation.)

2 JIM WIGGINS: (Inaudible) to just
3 transport this one train.

4 NADER MAMISH: Okay.

5 JIM WIGGINS: So things are stuck on the
6 ground. And we may lose the crew. We may lose the
7 air frame because it was committed to a humanitarian
8 effort in the Middle East.

9 So I got an email to Chuck -- apparently
10 he's up and answering emails -- to see if he needs
11 help because I thought before that he was trying to
12 ram this thing through DART on his side.

13 NADER MAMISH: Okay.

14 JIM WIGGINS: But the more I got to him,
15 before I knew he was available, I thought to call
16 you.

17 Do you have anything you can do to help
18 or any advice? Where, where is --

19 NADER MAMISH: Yeah, let me, let me make
20 a phone call to, let me make a phone call to USAID
21 and see what they --

22 JIM WIGGINS: Okay. That that would be
23 helpful.

24 NADER MAMISH: -- what they advise.

25 JIM WIGGINS: Yeah, as best as we can

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1 tell, if it goes over there, it's going to be used.

2 And even though it's one train, we can at least put
3 something, put water somewhere.

4 NADER MAMISH: Okay. Now what is on
5 this --

6 JIM WIGGINS: As we understand it, it's
7 the complete train. It's that -- know the Bechtel
8 --

9 NADER MAMISH: Yeah, I do.

10 JIM WIGGINS: -- the design for the
11 temporary system?

12 NADER MAMISH: Yes, I do.

13 JIM WIGGINS: It's got several pumps and
14 --

15 NADER MAMISH: Yes.

16 JIM WIGGINS: -- I guess piping and
17 such.

18 NADER MAMISH: Okay. So that's the
19 equipment?

20 JIM WIGGINS: Yeah. Apparently one
21 train of it's located, loaded on this plane.

22 NADER MAMISH: Okay.

23 JIM WIGGINS: All right?

24 NADER MAMISH: I'll make this call and
25 I'll get back to you promptly.

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JIM WIGGINS: All right. Thanks, Nader.

NADER MAMISH: Bye.

JIM WIGGINS: Bye.

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(CONFERENCE CALL INITIATED.)

01:48:57/1:49:50

(Extraneous conference call omitted.)

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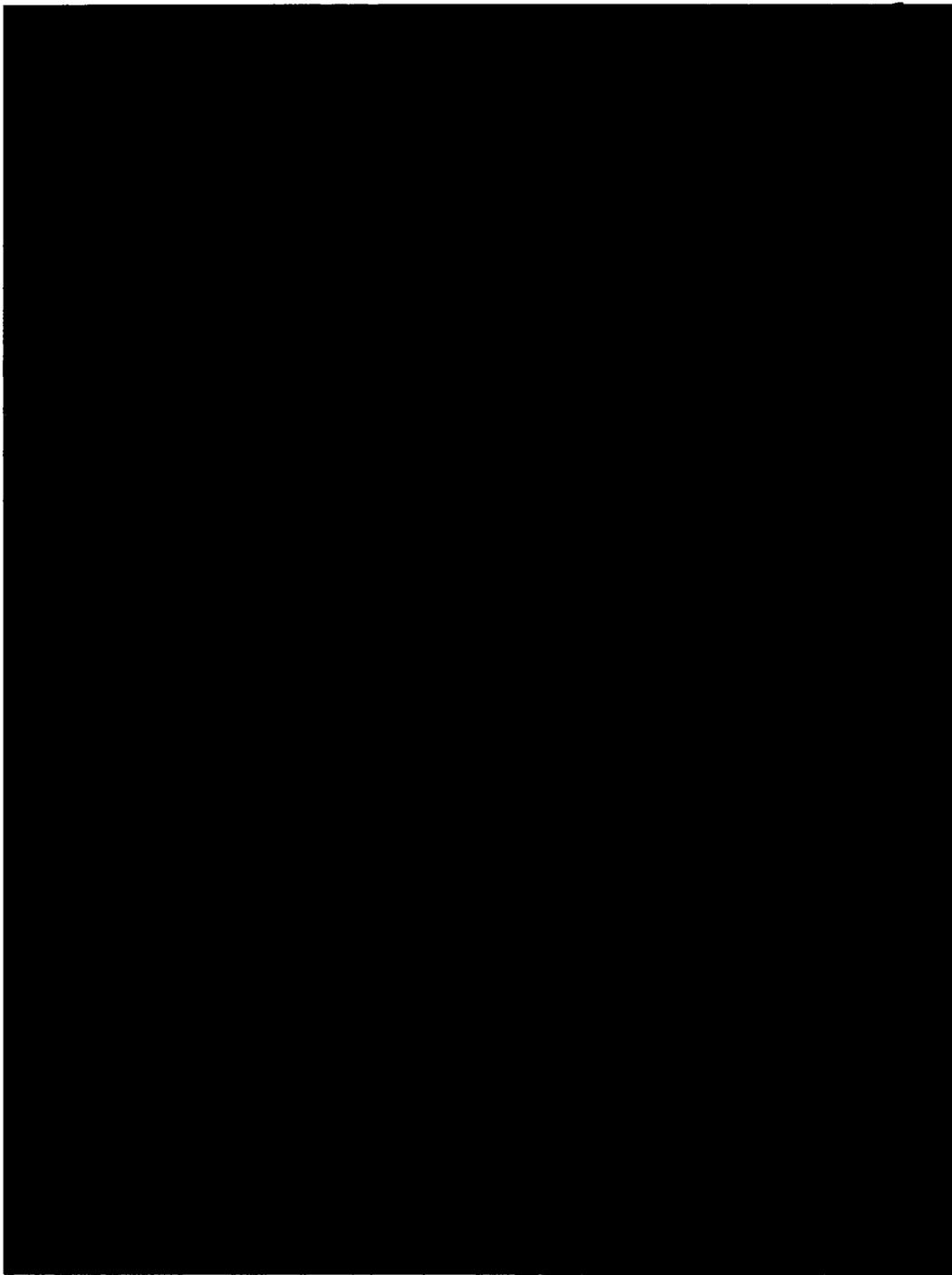
(CONFERENCE CALL INITIATED.)

01:49:53/01:53:24

NADER MAMISH: Yeah, this is Nader.

JIM WIGGINS: Yeah, Nader. What did you

find?



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JIM WIGGINS: Okay. All right. I think, based on what you said, we need to go back to the team and quiz them on whether you need these Bechtel guys running with this device. I, that's a new one on me.

NADER MAMISH: Yeah.

JIM WIGGINS: Laura's here.

Have you heard?

LAURA: I just talked to Bill Cook, who's at the embassy right now, and his view was twofold. One is getting the equipment on the ground now is not urgent to make rash decisions. The focus isn't, doesn't to be done immediately. But they did

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1 take -- then he's got the political side, which took
2 it took them all day yesterday to convince [REDACTED] to
3 accept it. But they think at some point they'll
4 lever it. But Tepco will most likely not use this
5 in the muted pewter.

6 MALE PARTICIPANT: When were the flight
7 crews (inaudible)?

8 LAURA: You'd have to (inaudible).

9 MALE PARTICIPANT: All right. Good.
10 That leaves them basically no other choice. All
11 right. Good, Chuck.

12 We're (audio interference) Chuck.

13 (Off-mic conversation.)

14 MALE PARTICIPANT: Well, that's the
15 question. How soon are they going to use this
16 thing? I said, do they need --

17 MALE PARTICIPANT: Well, will it ever be
18 used?

19 Nader, are you on?

20 NADER MAMISH: Yes.

21 JIM WIGGINS: All right. I think we, I
22 think you got us what we needed. The cost won't
23 change, so, thanks. Okay?

24 NADER MAMISH: Okay. Let me know if you
25 guys need anything else.

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JIM WIGGINS: Okay. Thanks a lot.

Goodbye.

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1 (CONFERENCE CALL INITIATED.)

2 01:53:32/01:55:41

3 CHUCK CASTO: Hey, Jim.

4 JIM WIGGINS: Hey, Chuck, hi. Good
5 evening.

6 We've been -- do you know that there's a
7 current hang-up with the Bechtel equipment?

8 CHUCK CASTO: Right.

9 JIM WIGGINS: I need your, I need your
10 advice.

11 Here's what we understand. There's a
12 single train of the Bechtel lash-up setting on an
13 Australian C-17 in Perth with a flight crew ready to
14 go.

15 CHUCK CASTO: Right.

16 JIM WIGGINS: Except Bechtel just
17 changed the price from \$750K to \$2.4 million --

18 CHUCK CASTO: Right.

19 JIM WIGGINS: -- to transport the single
20 train. That, that \$2.4 million is beyond,
21 apparently, the level that whoever it is, AID or
22 whoever, can fund that.

23 CHUCK CASTO: Right.

24 JIM WIGGINS: So now everything is kind
25 of hang-fire.

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1 I called Nader. Nader talked to USAID
2 here. What he, what Nader is hearing is that the
3 cost includes not just the components but several
4 Bechtel individuals at [REDACTED] that are
5 apparently flying with this thing.

6 CHUCK CASTO: I didn't know that part.

7 JIM WIGGINS: Yeah --

8 CHUCK CASTO: I just know that (audio
9 interference).

10 JIM WIGGINS: Then we talked to Bill
11 Cook -- you know, how serious are we with this? And
12 Bill was saying, well, you know, he spent, we
13 finally got MOD to agree to let this thing come
14 over, but it's not clear when any of this is going
15 to be used.

16 And now we are potentially going to get
17 to the painful part. Nader suggested that we talked
18 to Dyer, and that means we're heading down a path of
19 --

20 CHUCK CASTO: Oh.

21 JIM WIGGINS: -- potentially paying for
22 ourselves.

23 CHUCK CASTO: Yeah.

24 JIM WIGGINS: So you, you need to weigh
25 in on this. Where do you weigh in this?

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1 CHUCK CASTO: (Audio interference).

2 JIM WIGGINS: You're breaking up.

3 Can we clean the line?

4 MALE PARTICIPANT: Not without calling
5 him back.

6 CHUCK CASTO: Can you hear me?

7 JIM WIGGINS: We need to call you back,
8 Chuck.

9 CHUCK CASTO: Okay.

10 JIM WIGGINS: We can't, we can't
11 understand you. We have to call you back.

12 CHUCK CASTO: Okay.

13 JIM WIGGINS: Just stay where you are.

14 CHUCK CASTO: Okay.

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1 (CONFERENCE CALL INITIATED.)

2 1:56:51/02:04:10

3 MALE PARTICIPANT: Chuck, are you there?

4 JIM WIGGINS: Chuck?

5 (No response.)

6 JIM WIGGINS: Chuck?

7 CHUCK CASTO: Yes.

8 JIM WIGGINS: Okay, you're back. Okay,
9 so -- Yeah. Yeah, all right. It's a little bit
10 better.

11 So say what you're going to say. Where
12 do you want to go with this?



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18 I would -- you know, there will be
19 another airplane. There will be another -- I don't
20 think it's that urgent that, that, you know, we
21 ought to do, we ought to go to Herculean efforts, so
22 to speak, to get it on this flight.

23 You know, it's unfortunate, but I don't,
24 I, I -- you know, politically it's really a pain in
25 the ass, really, honestly, but in terms of, you

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1 know, we offered and offered and said we could do
2 this and we said we could do it. And we met with
3 [REDACTED] and I told them we would do it if they
4 wanted it. And they went through three no's with
5 them. And then, when we got back to the embassy,
6 they called back and said, yeah, we'll take it
7 because they'd talked to the minister and the
8 minister said, yeah, we'll take it.

9 But I don't think it's, you know, I
10 don't think it's urgent, and I don't -- you know,
11 politically it's not the smoothest situation. But
12 I, I, you know, I wouldn't go to Herculean efforts
13 to get it paid for and there will be another
14 airplane. If we really, really need it, somebody
15 will lift it out of there.

16 But, you know, Tokyo Fire Department is
17 going to use their system first. I would imagine,
18 if that doesn't work or if they need something else,
19 they'll go to the Tepco system second. And thirdly,
20 they would go to our system.

21 JIM WIGGINS: All right. So what do you
22 want to -- we'll talk to Cook and we'll just
23 basically, what? Unload this damn thing until we
24 get some money to, to sort it out?

25 CHUCK CASTO: Yeah, that's my feeling.

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1 Unless [REDACTED] and those guys -- you know, I
2 emailed [REDACTED] and he knows, and he knows the
3 situation. And he knows USAID here. And he knows
4 the situation.

5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 I'm not going to, I'm not going to push
11 the government to spend \$2-1/2 million on this
12 system.

13 JIM WIGGINS: Okay, but do you think we
14 should push Bechtel on why in the hell they changed
15 this God-damn price structure?

16 CHUCK CASTO: I mean, you could ask
17 them, or you could ask [REDACTED] -- I guess he's the
18 guy -- what happened there. But I think that
19 airplane needs to get to -- you know, it's being
20 diverted from relief efforts in the Middle East.

21 JIM WIGGINS: We were told.

22 CHUCK CASTO: You know, so it probably
23 needs to get back to where it's going.

24 JIM WIGGINS: Okay. All right, so let's
25 see. Do you have the capability of sending an email

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1 to AID and the ambassador's office, the guy you
2 mentioned, that says, that kind of lays this out,
3 that we've run into a snag with regard to funding,
4 as the cost structure for this thing had changed
5 significantly. It's going to take us a while --

6 CHUCK CASTO: Well, they've already
7 emailed it, they've already emailed it out through
8 that loop. You know, AID and everybody's already
9 been talking about it.

10 JIM WIGGINS: Okay.

11 CHUCK CASTO: But the ambassador's staff
12 and, and AID, you know, they've conversed back and
13 forth. So, you know, I'm not going to try to
14 overrule AID.

15 You know, somebody will figure it out.
16 They'll get it on another, they'll load it on --
17 they already said something about two other
18 countries that airplanes, you know?

19 JIM WIGGINS: Right.

20 CHUCK CASTO: There was something in
21 there. I have to go back and say, well, you know,
22 we might be able to get the Canadians or somebody
23 else to do it. So I'm going to leave that to AID,
24 and if we can't, you know, if we can't get it there
25 right now, it's, it's not, you know, urgent anyhow.

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1 So --

2 JIM WIGGINS: Okay, so what we need to
3 do here?

4 We'll talk to Bill Cook and tell him
5 that.

6 FEMALE PARTICIPANT: You know, but
7 Bill's got very limited staff at the embassy right
8 now, and we, there's --

9 JIM WIGGINS: Well, what do we need to
10 do?

11 FEMALE PARTICIPANT: Well, that's what
12 I'm trying to figure out because we --

13 JIM WIGGINS: How do we set it off,
14 then, if we say, okay, can't go?

15 FEMALE PARTICIPANT: We've got them
16 loading a plane, getting it ready to go. Who are
17 the -- I mean, we can, we can call [REDACTED] and
18 have him, from an industry perspective, put it back
19 in a safe situation in Perth. Is that what the NRC
20 --

21 JIM WIGGINS: Who's that [REDACTED]

22 FEMALE PARTICIPANT: He's the Bechtel
23 thing running this process.

24 JIM WIGGINS: It sounds like that's what
25 we ought to do.

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1 Anything, Chuck?

2 CHUCK CASTO: Yeah, I would unload it
3 and tell that airplane to be on its way. And then,
4 you know --

5 JIM WIGGINS: We'll, we'll, we're going
6 to rail at [REDACTED] for where the hell did the
7 significant increase come from?

8 CHUCK CASTO: Yeah.

9 JIM WIGGINS: Okay. All right.

10 CHUCK CASTO: We're not the pay, we're
11 not going to pay \$2-1/2 million dollars for this
12 thing, even if we did promise the Japanese. It's
13 not, you know, this isn't essential to cool those,
14 to cool those pools. They've got two other systems
15 in design and procurement now here in country.

16 JIM WIGGINS: I wouldn't, I wouldn't say
17 "not". I would say "not now".

18 CHUCK CASTO: Yeah. Right.

19 JIM WIGGINS: All right, so we've got,
20 we've got a significant cost snag, which is going to
21 now delay our ability to get the devices over there.

22 So that meant that the stuff's got to come off the
23 plane because we're not going to pay, we don't, we
24 don't understand these costs and we're not to go
25 forward until we do. How about that?

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1 CHUCK CASTO: Yeah. I mean, unless
2 somebody is willing to call the Chairman and have
3 him pull the plug and call the White House or
4 something. You know?

5 MALE PARTICIPANT: (Off mic).

6 CHUCK CASTO: Well I would, I would call
7 -- what time -- it's, it's --

8 JIM WIGGINS: Don't worry about it.

9 CHUCK CASTO: -- it's nine o'clock or so
10 --

11 JIM WIGGINS: Yes, there's plenty of
12 time here. I'll --

13 CHUCK CASTO: I would call, I would call
14 Josh or something and let them know the situation.
15 If the Chairman wants to call the White House and
16 get --

17 JIM WIGGINS: Yeah, that's what I was
18 thinking. We'll go to Josh and say, here is your --
19 the team's advice in the field, from a technical
20 point of view, a delay in this is not very hurtful.

21 CHUCK CASTO: Right.

22 JIM WIGGINS: From a political point of
23 view, it might be a different story because we had
24 to do a lot of convincing to get [REDACTED] willing
25 to take this stuff.

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1 CHUCK CASTO: Right. You got it
2 exactly, Jim. If you would, if you would tell Josh
3 that.

4 JIM WIGGINS: Well, let me ask one more
5 question. Is a commitment, do we have a firm
6 commitment in hand from [REDACTED] if they got it,
7 they'd use it? 5

8 CHUCK CASTO: No. No we don't. We have
9 that they would accept it.

10 JIM WIGGINS: Okay. That, that's fine.
11 All right, let us to do our thing.
12 We'll call Josh, see what he's got to say, and if it
13 goes the way we think it is, we'll, Laura will talk
14 to [REDACTED] say, you got be kidding me. You know,
15 do what you need to do with -- 6

16 CHUCK CASTO: Yeah.

17 JIM WIGGINS: -- the equipment. We're
18 two and a half million dollars.

19 CHUCK CASTO: Yeah. The other option is
20 for the Chairman to call Bechtel.

21 JIM WIGGINS: Right.

22 CHUCK CASTO: And say, what in the hell
23 are you guys doing?

24 JIM WIGGINS: Yeah.

25 CHUCK CASTO: You know? So make that a

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1 -- yeah, you do that. You got it, Jim. That's it.
2 Go for it.

3 JIM WIGGINS: All right.

4 CHUCK CASTO: Bulldog that thing.

5 JIM WIGGINS: Thanks.

6 CHUCK CASTO: All right.

7 JIM WIGGINS: Thanks, Chuck. See you.

8 CHUCK CASTO: Yeah.

9 JIM WIGGINS: Bye.

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1 (CONFERENCE CALL INITIATED.)

2 02:04:15/02:25:25

3 (Standby to 02:04:59.)

4 JIM WIGGINS: Bill?

5 BILL BORCHARDT: Yeah.

6 JIM WIGGINS: What's up?

7 BILL BORCHARDT: Nothing. I'm just
8 listening in.

9 JIM WIGGINS: Yeah, you heard the -- oh,
10 all right. You're just announcing that you're
11 white-ratting us. Okay.

12 BILL BORCHARDT: Yeah. I just --

13 JIM WIGGINS: We talked to Chuck about
14 this equipment that's sitting in, in Australia.

15 Chuck's view is that from a technical
16 point of view it's not immediately needed. It looks
17 like Tepco or -- who was it? -- the Tokyo Fire
18 Department and Tepco already have schemes under way,
19 to his knowledge. And so Chuck's team says, from a
20 technical point of view, it's not needed.

21 From a political point of view, it's
22 kind of a different story 

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[REDACTED]

BILL BORCHARDT: Yeah.

JIM WIGGINS: [REDACTED] [REDACTED]

[REDACTED] [REDACTED]

So when you've you got 200 and, \$2.4 million-a-train cost for this thing, maybe it's not the best thing to pull the stops out to get this thing over. So we're talking to Bask -- we're going to get Josh. We're going to call him --

JOSH BASKIN: Josh is on.

JIM WIGGINS: Okay.

And then we'll go from there.

BILL BORCHARDT: Okay. Thanks.

JIM WIGGINS: All right.

Josh?

JOSH BASKIN: Yes, sir.

JIM WIGGINS: Good morning. How are you?

JOSH BASKIN: Great. How have you guys been?

JIM WIGGINS: You've got to save all these squirrely things for dayshift. Are you ready for this one?

JOSH BASKIN: Okay. What have you got?

JIM WIGGINS: They got a train in the

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1 Bechtel system loaded in a C-17 -- it's an
2 Australian Air Force C-17 with a flight crew -- on
3 the, on the ground in Perth. Okay?

4 JOSH BASKIN: Okay.

5 JIM WIGGINS: But it seems that Bechtel
6 has re-costed it, and it's now gone from \$750,000
7 for the project to the \$2.4 million per train.
8 Obviously, [REDACTED].

9 JOSH BASKIN: Okay.

10 JIM WIGGINS: It actually exceeds the
11 legal limit that they're allowed to handle.

12 JOSH BASKIN: Okay.

13 JIM WIGGINS: That's what we were told.
14 That's what Nader told us.

15 Here's, here's the lay of the land
16 though. From a technical point of view -- we talked
17 to Chuck -- from a technical point of view, the
18 equipment is not immediately needed.

19 JOSH BASKIN: Okay.

20 JIM WIGGINS: A combination between what
21 Tokyo Fire Department is doing and what the Tokyo
22 Electric people are doing, at this point, as the
23 team understands it, would tend to de-emphasize the
24 need for this in any immediate sense. You follow?

25 JOSH BASKIN: Yep.

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1 JIM WIGGINS: But from a political
2 sense, Chuck's in a bad, in a different spot. They
3 spent all of today, you know, the last, whatever,
4 12, 24 hours or so, working hard [REDACTED] [REDACTED]

5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED] No affirmative assurance
9 that they intend to use it.

10 So now our options are try to either
11 find \$2.4 million; figure out a way to paint over
12 USAID for them to figure out how to fund it; or tell
13 Bechtel, well, what the hell did you do? We don't
14 need it right now. Take it off the plane and we'll
15 reload later.

16 So we are kind of siding towards the
17 third option from a technical point of view but need
18 your, your judgment on this on whether you need to
19 call the boss.

20 JOSH BASKIN: The boss is calling me.
21 Can you hold one second?

22 JIM WIGGINS: Yeah.

23 JOSH BASKIN: All right. I'll be right
24 back.

25 (Nader Mamish joins the bridge.)

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1 NADER MAMISH: Hey, Jim?

2 JIM WIGGINS: Nader, Josh is also on.
3 Bill Borchardt's listening in.

4 NADER MAMISH: Okay. I got an update
5 for you.

6 JIM WIGGINS: He's talking to the
7 chairman right now.

8 Yeah, what have you got?

9 NADER MAMISH: So I, I asked the folks,
10 our folks down at USAID, to get a little more
11 clarity on the costing and, and, and so forth. The
12 information I'm getting is that DOD has already
13 authorized --

14 JOSH BASKIN: Hey, Jim?

15 JIM WIGGINS: Yes?

16 JOSH BASKIN: It's Josh.

17 JIM WIGGINS: Okay.

18 JIM WIGGINS: So, is this equipment the
19 equipment that is related to the plan that the
20 Chairman shared with the ambassador yesterday?

21 JIM WIGGINS: It would be the Bechtel
22 plan.

23 JOSH BASKIN: It would be the Bechtel
24 Plant.

25 JIM WIGGINS: Yes.

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1 JOSH BASKIN: And the reason that the
2 team on the ground doesn't think it's necessary
3 right now is?
4 JIM WIGGINS: Because there's, there's
5 other systems being used other than this right now.
6 JOSH BASKIN: Would this be better?
7 JIM WIGGINS: Also, they don't have high
8 assurance that if this stuff actually did land in
9 Japan [REDACTED]
10 --
11 JOSH BASKIN: They would use it.
12 JIM WIGGINS: -- they would actually
13 construct and use it.
14 JOSH BASKIN: Got it. Okay. Hold, hold
15 on.
16 JIM WIGGINS: Nader's on the line too.
17 He's got some late update from the AID he was giving
18 us. If you've got a second, why don't you listen to
19 that too.
20 JOSH BASKIN: Okay.
21 Nader, just hold, hold real quick.
22 NADER MAMISH: Yep.
23 (Standby 02:10:18 to 02:11:22.)
24 JIM WIGGINS: Hey, Nader, you're still
25 hanging on, right?

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1 NADER MAMISH: Yes, sir.

2 JIM WIGGINS: All right. Let's give
3 Josh a few more seconds to talk to the Chairman and
4 see comes out of that unless you have, unless you've
5 rescued the day. Do you have a rescue plan, or did
6 you --

7 NADER MAMISH: Actually, we may have a
8 rescue plan, but really, it comes down to price and
9 priority.

10 The fund is, no longer, appears to be an
11 issue if the price is right and the priority is
12 high.

13 JIM WIGGINS: Who -- was it AID --

14 NADER MAMISH: Okay, so let me -- if
15 Josh is --

16 JOSH BASKIN: Josh is back. Sorry about
17 that.

18 NADER MAMISH: That's okay.

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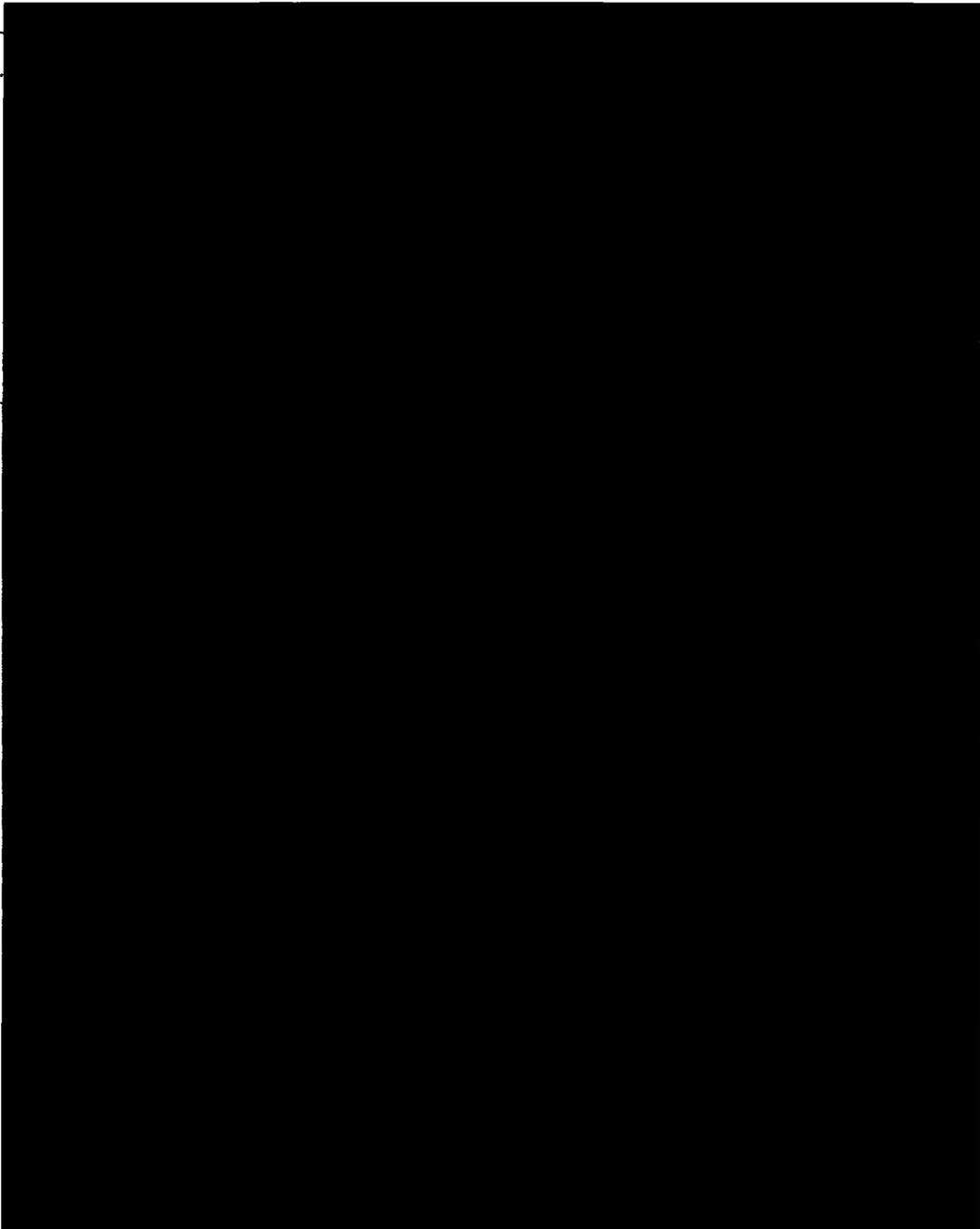


JOSH BASKIN: \$9.6 million?

NADER MAMISH: \$9.6 million.

JIM WIGGINS: That's 2.4 times four,
Josh. Remember? It's \$2.4 million per train.

JOSH BASKIN: Got it. Got it.



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NADER MAMISH: No. They're not on.

JOSH BASKIN: Okay. I mean, in one sense, you know, this is what our team came up with and this is what the Chairman presented to the ambassador as something that would help. So, if we still believe that, even if we don't think we need it at this second, it's probably in everybody's interest to get it, to look a little bit forward and get it moving, at least get it in country. Right?

[REDACTED] doesn't use it, then that's not, you know, that's not our call.

[REDACTED]

NADER MAMISH: You know, it's not -- they're relying on our recommendation, and I think our recommendation is, is, yeah, send the equipment.

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1 But we don't know -- I think we would probably --
2 my own view is, is we probably need to get some
3 assurances from the Japanese that they're going to
4 use this equipment.

5 JIM WIGGINS: That's, that's the rub.

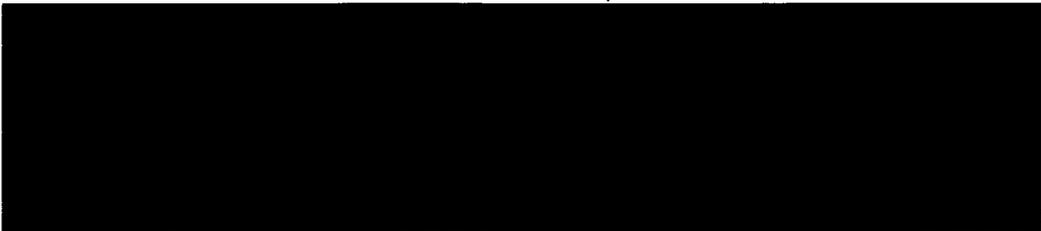
6 NADER MAMISH: Okay.



15 So we could be spending \$2.4- to 9.6
16 million to send one to four trains of this stuff
17 over there that will sit on the ground somewhere
18 under the control [redacted] but not
19 necessarily erected and used.

20 JOSH BASKIN: Okay.

21 JIM WIGGINS: And that, that seems to be
22 an awful waste of money.



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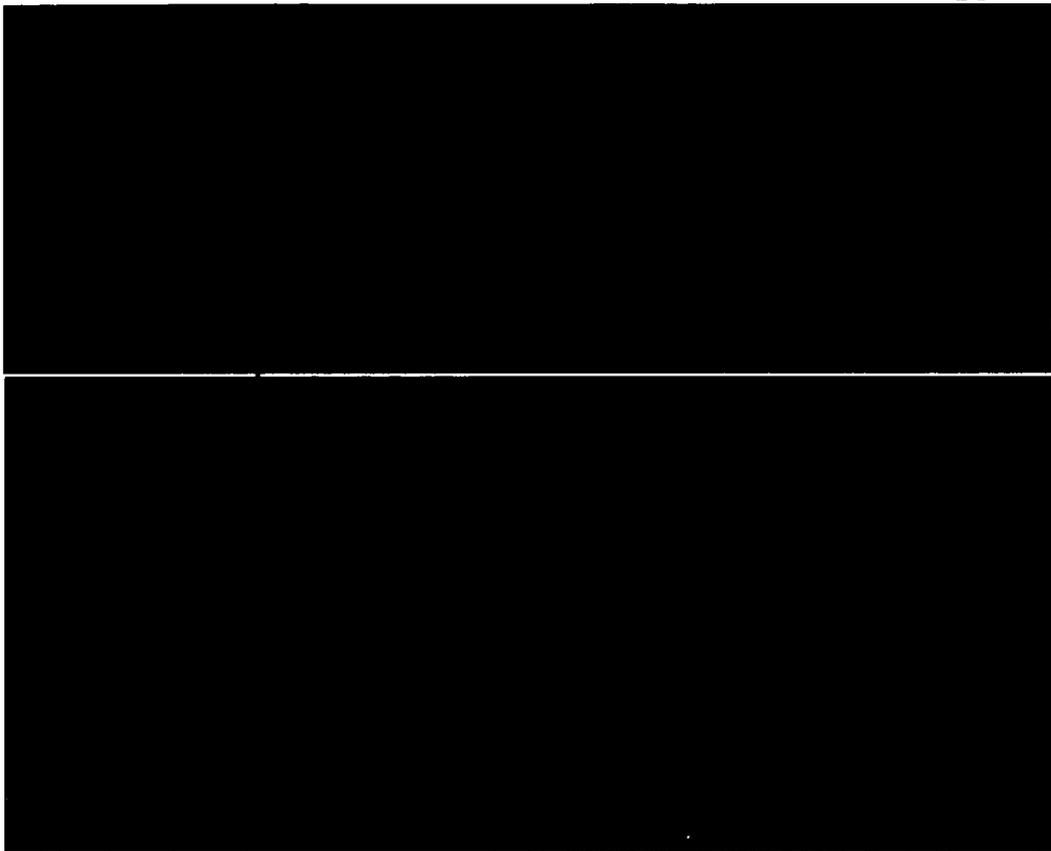
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JIM WIGGINS: So the full story would be, from a purely technical perspective, based on our understandings of what Tepco and others in country are doing, of what the Japanese themselves are doing, there is not an immediate need for this to be put in place. The other parallel efforts would go, would be expected to go forward. Okay?

So, from a pure technical point of view, this wouldn't add much.

JOSH BASKIN: Well, then, I think the key word there is "immediate".

JIM WIGGINS: Yeah.

JOSH BASKIN: Okay. So I mean, it's not

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1 going to be immediately available, even if we pulled
2 the trigger a half an hour ago.

3 JIM WIGGINS: Yeah, right. Well, I'll
4 -- let me finish this discussion --

5 JOSH BASKIN: Okay.

6 JIM WIGGINS: -- before I get into this
7 red herring because this (inaudible).

8 So, anyhow, technically, from a purely
9 technical point of view, the argument would be,
10 well, take it off the plane, leave it at the airport
11 or leave it at the airfield, and we'll study this a
12 little bit more from a cost point of view. And if
13 the costs come more in line or if the need becomes
14 more than it is now, we'll fly in next frame --
15 apparently, there's other airframes -- we'll load it
16 and, and then pull the trigger on it. Okay?

17 From a political point of view is, after
18 they, that works the other direction. They spent
19 all yesterday 

20  Now they've
21 accepted, they've agreed to take it, and now we're
22 not give it to them.

23 JOSH BASKIN: Right.

24 JIM WIGGINS: But the bottom line,
25 though, is if they get it, there's no assurance that

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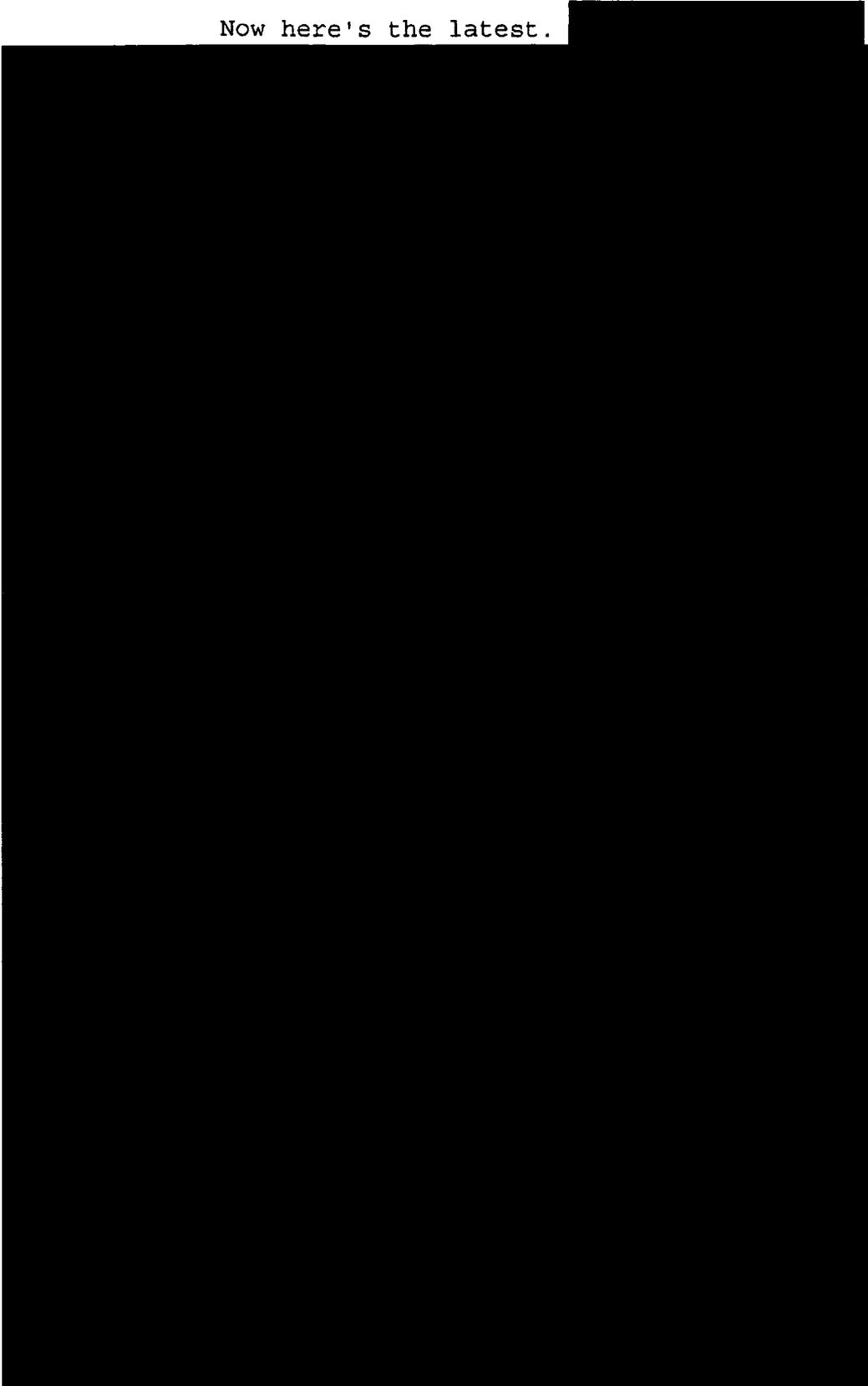
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1 they'll use it.

2 Now here's the latest.

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1 true either. So all three counts have failed.

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15 sent -- but yesterday, from a technical perspective,
16 that was needed. So why is it not needed today from
17 a technical perspective? Did they do something
18 overnight that is --

19 JIM WIGGINS: No. I'm not sure it was
20 any different. We knew before that -- we're just
21 telling you what Chuck's saying. You know, he's
22 seeing what Tepco and what he does is moving forward
23 in the, with Tepco and the Tokyo Fire Department.
24 So I think we need knew that yesterday.

25 JOSH BASKIN: Okay. We've continued to

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1 see a higher level of effort?

2 JIM WIGGINS: Yes.

3 JOSH BASKIN: Okay.

4 JIM WIGGINS: Yeah, that's, that's a
5 good way of putting it. You know, that earlier, you
6 get, you see Tepco is -- let's try to put it
7 politely -- not well focused. Then the Ministry of
8 Defense comes in and starts exerting a stronger
9 hand. That might have forced Tepco to get more
10 focused.

11 I think you may have heard yesterday
12 when, or the day before, when Chuck's people,
13 talking to Bechtel -- 

14

15

16

17 JOSH BASKIN: Okay.

18 JIM WIGGINS: So there were signs that
19 there was movement going forward in the same
20 direction.

21 JOSH BASKIN: So, would the, would the
22 fire truck system be as effective as this, the
23 hardened, this design?

24 JIM WIGGINS: I can't tell. I don't
25 know what the gallons per minute or the list or any

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1 of that would be.

2 JOSH BASKIN: Okay.

3 JIM WIGGINS: And I don't know -- that,
4 that's something Chuck's people might know, but I
5 don't.

6 JOSH BASKIN: Okay.

7 JIM WIGGINS: I know what the specs are
8 that they --

9 JOSH BASKIN: Do you need less personnel
10 to operate this system than you do, the fire truck
11 system?

12 JIM WIGGINS: I don't know that either.

13 JOSH BASKIN: Okay.

14 JIM WIGGINS: I never --

15 NADER MAMISH: What I was, for what it's
16 worth, is that Bechtel wanted to send three people
17 per train. I don't know if that's more or less than
18 a fire truck.

19 JIM WIGGINS: But three people per train
20 won't work, Nader.

21 NADER MAMISH: Oh, okay.

22 JIM WIGGINS: I don't think it could
23 work. What are these people, what are they going to
24 do? If they're just chaperoning the equipment, that
25 seems like they're going overboard. If they think

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1 there's three people needed to erect and operate
2 this thing, have they considered the fact that
3 they're operating it in, you know, tens of millirem
4 fields? Have they figured stay time? So that's
5 only at the gates. So the rad levels as you closer
6 to the building where this thing will be useful are
7 probably going to go up. It may go up
8 significantly. There are measurements of R per hour
9 on the top --

10 FEMALE PARTICIPANT: (Off mic).

11 JIM WIGGINS: -- yeah. It's 30 R per
12 hour at the top of these, these buildings. I don't
13 know what they were on the side. You know, but that
14 just seems unreasonable to me. They would have to
15 do a relay race to erect it in and to operate it.

16 NADER MAMISH: Yeah. I don't know what
17 these three people would do, but that's what they
18 were suggesting.

19 JIM WIGGINS: Yes, Laura?

20 LAURA: The three people were from the
21 suppliers from all the equipment. They were only
22 going to take it up to Yakota. [REDACTED]

23 [REDACTED]
24 [REDACTED]
25 JIM WIGGINS: So we're paying to [REDACTED]

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1 [REDACTED]
2 LAURA: It was going to go to -- they
3 wouldn't -- I would most likely suggest that these
4 three individuals would not make it off the Yakota
5 air band.

6 The other item from a technical team on
7 site -- do they have the fire trucks going? Tepco
8 has another type of more long-term pumping system
9 under development now, so that would be their second
10 option that they're working on. So this system is
11 actually --

12 JIM WIGGINS: Tertiary.

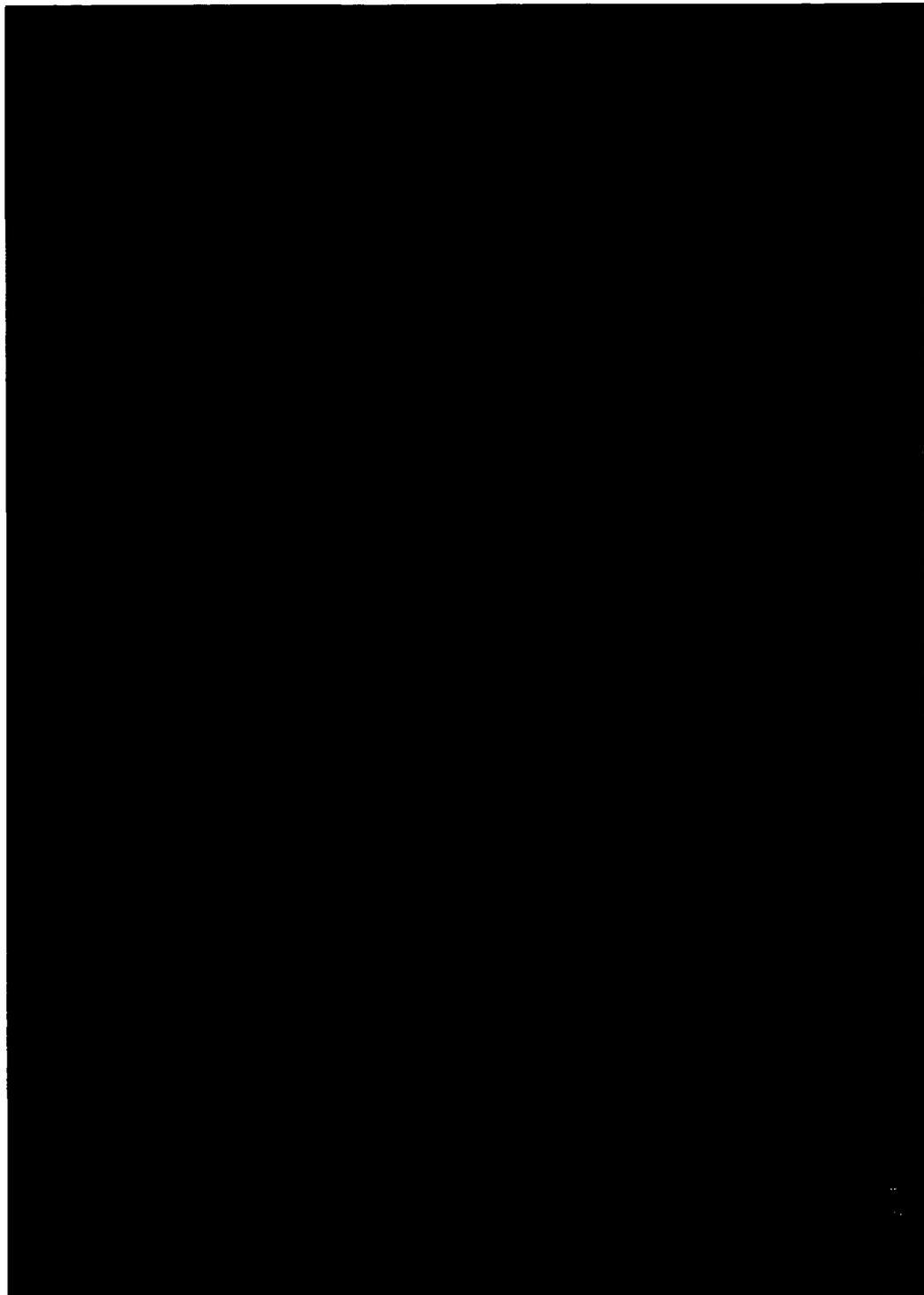
13 LAURA: -- There's not a commitment to
14 use it, and it would be the third activity that
15 Tepco would approach. So fire trucks would be
16 first. They're acting. They're already in
17 development on a second type of pumping system,
18 which is more permanent than a fire truck system.

19 And so, again, the priority on this, and
20 that's where Chuck has shifted, is that Tepco's
21 initiation of their second solution seems to be
22 going forward. were going to have.

23 They were going to have. They were saying [REDACTED]
24 [REDACTED]

25 JOSH BASKIN: Okay. That, that makes

1 perfect sense to me. I guess where my, where my gut
2 is, is I'm okay with a little bit of extra defense
3 in depth at this point because we ain't got any of
4 that going on right now.



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1 JOSH BASKIN: Let me get right back to
2 you on that.

3 JIM WIGGINS: Well, that's where we
4 stand. That would be --

5 JOSH BASKIN: Oh, okay. That's kind of
6 where we are.

7 JIM WIGGINS: -- where we are. And then
8 you get, get to see if the Chairman is -- what's he
9 feel about all that.

10 JOSH BASKIN: Okay.

11 JIM WIGGINS: All right.

12 JOSH BASKIN: I'll call you back.

13 JIM WIGGINS: We'll stand by.

14 JOSH BASKIN: Okay. Thank you.

15 JIM WIGGINS: All right.

16 NADER MAMISH: Jim?

17 NADER MAMISH: I'm also on standby if
18 you need help.

19 JIM WIGGINS: Yeah --

20 NADER MAMISH: I'm not doing anything.

21 JIM WIGGINS: Yeah -- don't say that.
22 We'll bring you in.

23 NADER MAMISH: Well, I'm coming in.
24 But, but as far as this issues goes, I'm not
25 proceeding any further --

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1 JIM WIGGINS: Okay. Are you --

2 NADER MAMISH: -- unless otherwise
3 directed.

4 JIM WIGGINS: Are you coming in for the
5 two o'clock meeting?

6 NADER MAMISH: Yes, sir.

7 JIM WIGGINS: Okay. We'll probably see
8 you then.

9 NADER MAMISH: Okay.

10 JIM WIGGINS: Thanks a lot.

11 NADER MAMISH: Bye.

12 JIM WIGGINS: Bye.

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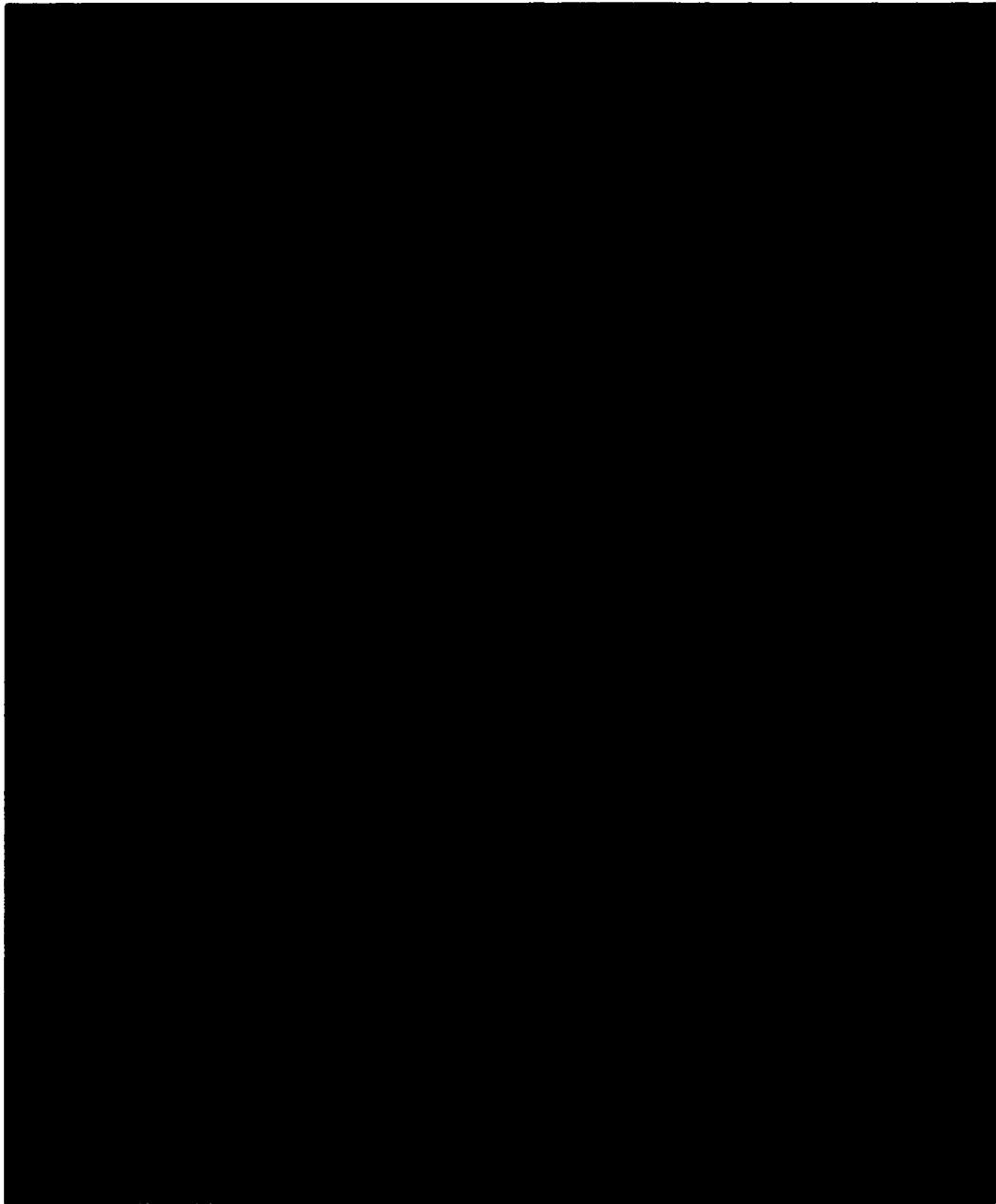
1 (CONFERENCE CALL INITIATED.)

2 02:25:29/02:29:28

3 BRIAN McDERMOTT: Hey, guys. This is
4 Brian McDermott.

5 MICHAEL DUDEK: Hi, Brian.

6 BRIAN McDERMOTT: What can we do for
7 you?



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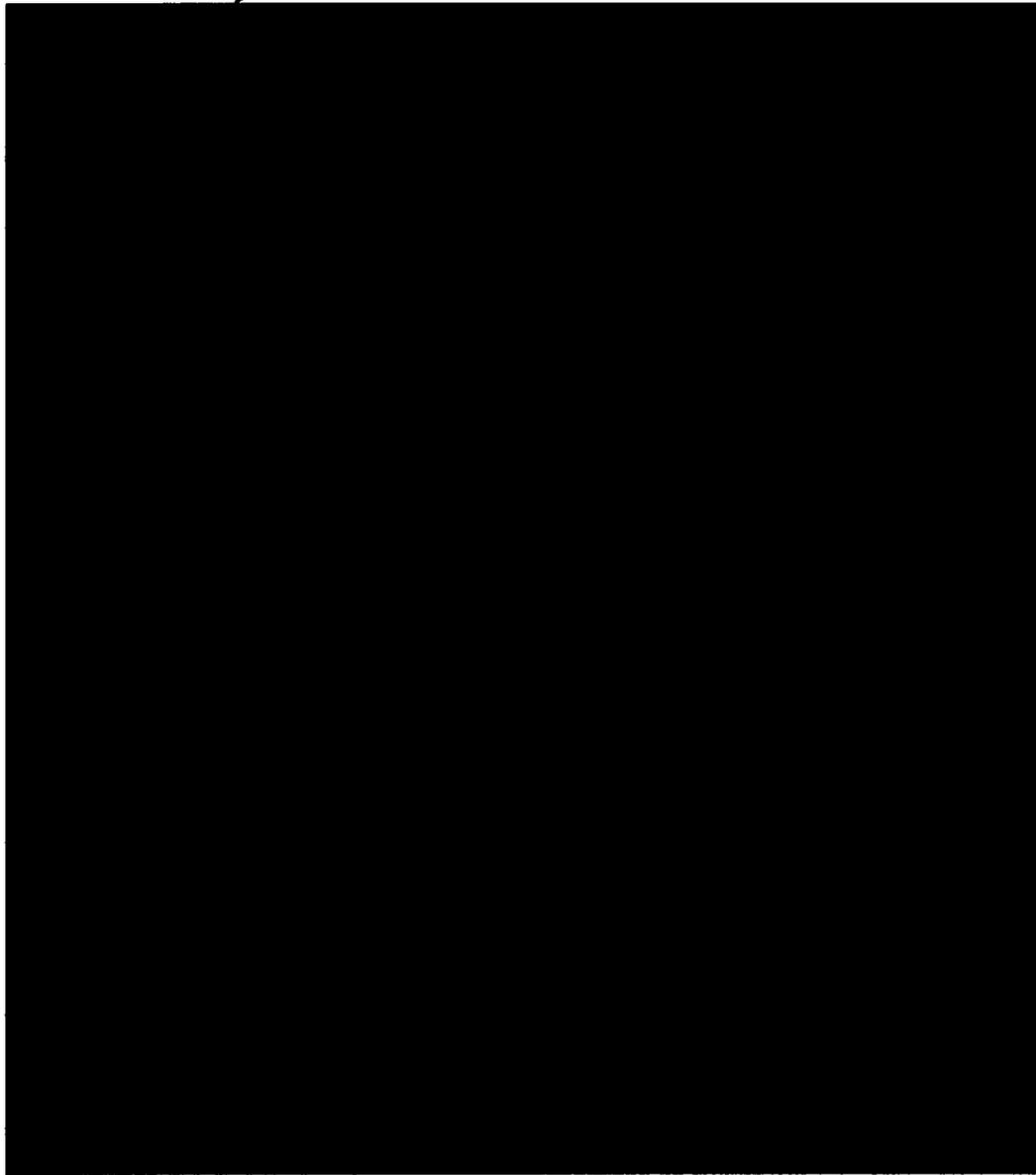
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JIM WIGGINS: We've done our part.

We've provided -- our role was to provide the technical input, which says that was important to put water on those damn plants.

MICHAEL DUDEK: Got it.

JIM WIGGINS: Okay, and we worked with Bechtel to come up with an option. The implementation of that option or any further

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1 development of it is probably going to transition
2 after the consortium meeting. At least, that's the
3 intent will be to get that over somewhere else,
4 because that's not what we do best. We did our
5 part.

6 So, yeah, just, just --

7 JOE ANDERSON: The only reason we
8 brought it up was -- this is Joe Anderson, Jim. The
9 only reason we brought it up the call with Mike may
10 have probably called [REDACTED] from Bechtel just
11 to try to get a better idea where these cost
12 estimates came from, especially the \$750,000.

13 JIM WIGGINS: Yeah.

14 JOE ANDERSON: At that time, he informed
15 us that he was basically acting off an email that
16 Bob Kaylor, who was the liaison before us, had sent
17 out something on the order of a cease-and-desist
18 until we determine how we're going to pay for it.
19 And again, just because of the cost and personnel,
20 aircraft et cetera, Bechtel president took that to
21 infer that they're to demobilize.

22 So that's why we really called, saying,
23 okay, is this really demobilization -- his response
24 to an email from an NRC employee whether or not we
25 would want to clarify it.

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1 JIM WIGGINS: I don't know what, Bob,
2 why, why any of us sent that. The, the actual
3 situation we're in, I don't know that I'd actually
4 be advising demobilization. I would say that they
5 were, they're not going to send it on this plane.

6 JOE ANDERSON: Well, right now, the
7 plane's going away and they're bringing all the
8 equipment back to the sources.

9 JIM WIGGINS: Okay. Well, whatever they
10 do --

11 JOE ANDERSON: [REDACTED] f
12 [REDACTED]
13 [REDACTED] meaning this is not going to sit on
14 the tarmac waiting for decision.

15 JIM WIGGINS: Okay. Well, they can
16 always put it back together again.

17 JOE ANDERSON: Okay. Well, (inaudible)
18 can always put it back together again.

19 JOE ANDERSON: Okay. Well, we just
20 wanted to make sure that we --

21 JIM WIGGINS: Does [REDACTED] recognize b
22 that he, he may need to, you know, he should be able
23 to put it back together again if that becomes
24 necessary?

25 JOE ANDERSON: I'm sure they can. It's

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1 going to be a time issue, and it's, you know, also
2 going to be a logistics issue.

3 JIM WIGGINS: All right. I have to get
4 on a call from --

5 BRIAN McDERMOTT: Okay. All right,
6 well, you guys got the, the, the latest.

7 JOE ANDERSON: All right. So we
8 basically do nothing.

9 BRIAN McDERMOTT: Correct.

10 JOE ANDERSON: And it's, it's
11 demobilized. All right.

12 BRIAN McDERMOTT: That's right. Step
13 back.

14 JOE ANDERSON: Understood.

15 BRIAN McDERMOTT: All right. Thanks
16 guys.

17 MALE PARTICIPANT: Okay, thank you.

18 (CONFERENCE CALL INITIATED.)

19 02:29:34/02:30:02

20 (Extraneous conference call omitted.)

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(CONFERENCE CALL INITIATED.)

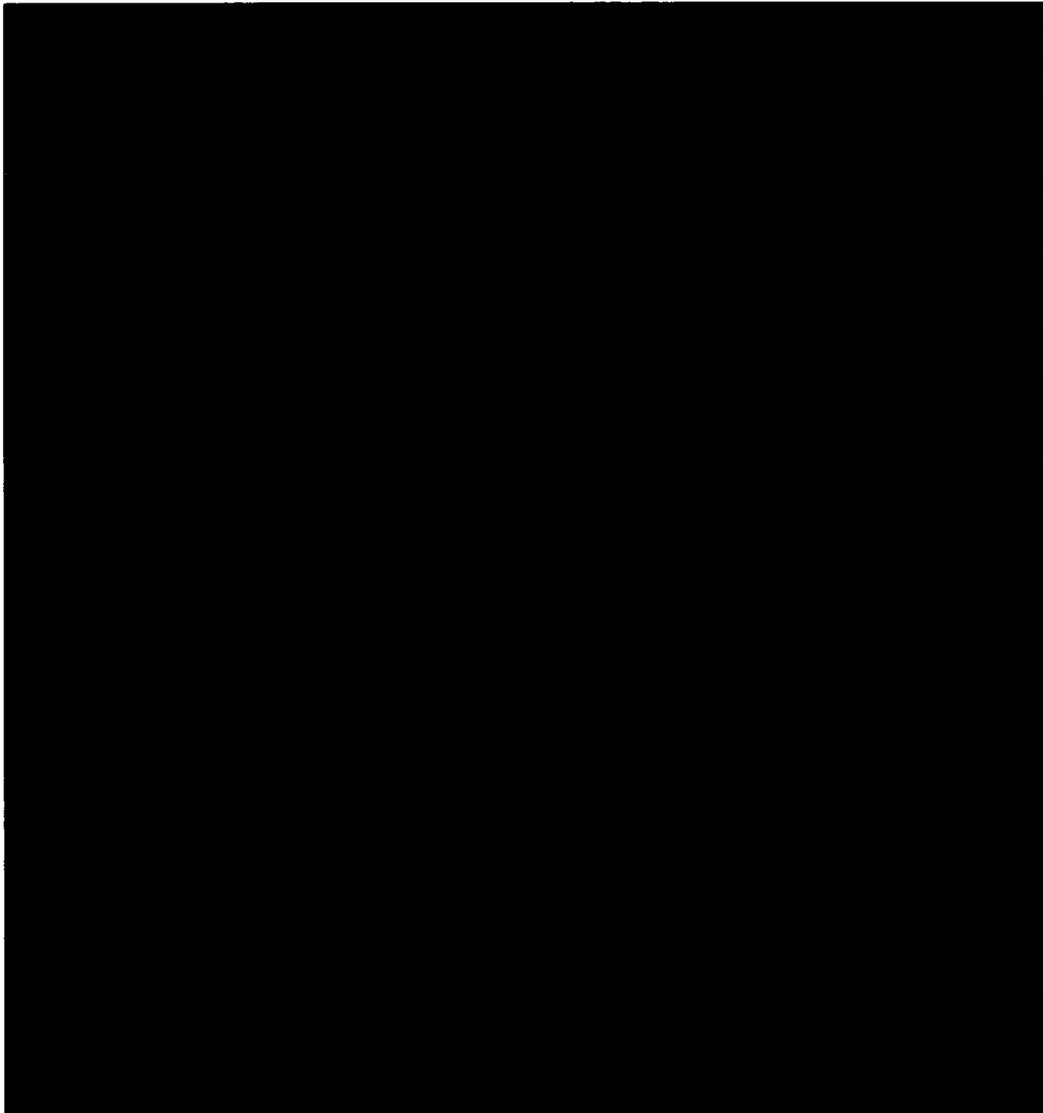
02:30:27/02:37:22



JIM WIGGINS: Yes, this is Jim Wiggins
on the executive team director for today.

 Hi, Mr. Wiggins.

JIM WIGGINS: What's up?



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1 trust that, you know, we had turned to both parties
2 and, and, you know, reached out to make this happen.

3 I mean, to turn us all off at the last minute
4 because of the funding issue that -- I realize that
5 it's a real funding issue, but --

6 JIM WIGGINS: Yeah, well, the --

7 [REDACTED] I mean, we're, yeah, we're
8 just dangling out there at the State Department. We
9 were asked to do all of this on the understanding
10 that the equipment would be made available in
11 reaching out to the Australians, reaching out to the
12 Japanese.

13 JIM WIGGINS: Right.

14 [REDACTED] And we're feeling now -- and
15 that's just me. I haven't even, I haven't --

16 JIM WIGGINS: Well, let me, let me --

17 (Simultaneous conversation.)

18 [REDACTED] -- spoken to the ambassador,
19 or -- yeah.

20 JIM WIGGINS: So let me just lay out
21 what we've been through with this. And believe me,
22 we didn't give the concerns that you've raised
23 you've raised a short shrift.

24 [REDACTED] Yeah.

25 JIM WIGGINS: Now, you, your, you added

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1 to the picture with Australia. We were focusing on
2 what it looked like to the Japanese, but your
3 Australian dimension is something we hadn't thought
4 of. I'll admit to that.

5 But when, when we talk our team -- and
6 we do what we do best, which is to ask ourselves the
7 technical questions; is the, is the system actually
8 needed? And really, the question is, is the system
9 actually needed now? Not needed; needed now -- and
10 what we get back from our team on the ground is
11 Japan is, when you consider what they understand
12 Tepco is heading toward and what they understand
13 Tokyo Fire Department is heading toward, this would
14 have been a third parallel path to get essentially
15 the same technical problem dealt with.

16 So it becomes a tertiary system in that
17 regard. There were the other two things that are
18 the primary and secondary, or the two primaries, and
19 this could be the secondary; however you want to
20 count it. So, from a technical point of view, it
21 wasn't immediately necessary that the plane take
22 off. We had some time to try to sort out why this
23 cost exploded up to \$9.6 million. That was one.

24 MALE PARTICIPANT: Jim?

25 JIM WIGGINS: The second thing that we,

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1 that weighed on our decision is, from our team, what
2 we understood, to the extent that we got from [REDACTED]
3 [REDACTED] as an agreement to accept the
4 equipment, the team was quite clear that they didn't
5 have a similar agreement in hand or (inaudible) that
6 they did not, that that equipment would be used and
7 accepted.

8 MALE PARTICIPANT: Jim?

9 JIM WIGGINS: So that really meant, it
10 really then said, well, gee, what are we getting for
11 \$10 million? And, and what we said is, well, we
12 came to the conclusion that we didn't have to send
13 that one single train on that one single airplane
14 today. We have some time to go back and re-,
15 re-calibrate this thing.

16 I don't understand why Bechtel's costs
17 are now what they are, and, you know --

18 [REDACTED] Yeah, we -- yeah, but -- I
19 understand. But we didn't get that message at the
20 embassy. Our message was, the message we received
21 from the NRC team was, go out and see if you can get
22 the Australians to bring it in; go talk to the
23 Japanese and see if they'll accept the system.

24 JIM WIGGINS: Yeah.

25 [REDACTED] I mean, and so we did that

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Hello?

16

JIM WIGGINS: Hello? Yeah, are you

17

there?

18

JOE YOUNG: Yeah, I'm still here. Yeah.

19

JIM WIGGINS: Okay. Got it. Your

20

impression in speaking to our team -- who were you

21

speaking to?

22

JOE YOUNG: I was speaking to everybody

23

-- Chuck and John, and there was, you know, Tim

24

Kolb. I mean, the whole team was // I, I didn't

25

think to do this on my own. They came to me and

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1 said, can you get (audio interference).

2 JIM WIGGINS: Yeah, well, we talked to
3 the team also within, just within the last hour we
4 talked to the team. So, you know, that, that's,
5 that was the information that we had from that --
6 are you there with us, Joe?

7 (No response.)

8 JIM WIGGINS: Did we lose you?

9 I think we lost him.

10 MALE PARTICIPANT: (Inaudible).

11 MALE PARTICIPANT: Yeah, and USAID made
12 the decision. The cost went from seven-fifty to ten
13 million?

14 FEMALE PARTICIPANT: Well, don't, don't
15 go there because we don't know that.

16 MALE PARTICIPANT: (Inaudible).

17 MALE PARTICIPANT: You mean it could
18 have always been this?

19 LAURA: I think that Bechtel was working
20 real-time. I think they were costing it out, and I
21 don't think, I don't think we have any evidence of
22 changing it. And so if we start going down that
23 road (audio interference).

24

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(CONFERENCE CALL INITIATED.)

02:37:22/02:43:28

[REDACTED] Sorry about that. I, I, my phone line dropped. I apologize for that. Is, is, is Mr. Wiggins still on the line?

JIM WIGGINS: Yeah, we're here with you. Your volume went to, went to heck here.

[REDACTED] Sorry about that.

JIM WIGGINS: That's okay.

[REDACTED] I guess, I'm going to -- Well, I'll to let you know I'm going to have to --

JIM WIGGINS: Let, let me, let me give you some further, further (inaudible) here. So basically, from the technical point of view, the information we were getting from the team said that it would be a backup to what they already understood was under way by the, the, the owner, the operator, Tepco and by other Japanese assets. That tended to recede in significance from a technical point of view.

The other fact is we have a message via the Bechtel people that quotes a, a statement from, or a direction from USAID to stand down on it.

So we, [REDACTED]

[REDACTED]

6

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1 [REDACTED]
2 [REDACTED] And the technical
3 part won't support us doing that. So that's where
4 we ended up.

5 I'm a little bit, I'm a little bit
6 disappointed too that we understand that Bechtel is
7 demobilizing, but I don't know if we can, I don't
8 know if that means a lot. I think that just --

9 MALE PARTICIPANT: Well, I think they're
10 getting wind that that's changed.

11 [REDACTED] The last, the last word I
12 had with that they simply sent the pilots home for
13 the evening. They were sending everybody home for
14 the evening who had worked on the, on the cargo --

15 JIM WIGGINS: Okay, well, that leaves
16 some time to --

17 MALE PARTICIPANT: Sure. Sure. Sure.

18 JIM WIGGINS: -- to redo this if need
19 be.

20 [REDACTED] Well, here's the thing. We
21 were thinking -- I mean, this is, you know, we, we
22 talked about this with the NRC team, that there
23 would be a value to redundancy only because of the
24 situation we faced, the, you know, possible nuclear
25 meltdown -- and that we don't know what the Japanese

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1 have.

2 I think -- and Chuck and his team, who
3 are great -- but I don't know if anybody has a clear
4 idea of what Tepco has in mind.

5 JIM WIGGINS: Well, we're not going to
6 say no and we're not going to say yes. We're just
7 going to say I think it's fortunate that the pilots
8 went home tonight.

9 I think we ought to get, we ought to
10 reload on this and get State, AID, you know, and any
11 of the other players together on this and make a
12 decision tomorrow because if it, if it, if it's a
13 go, somebody's got to find the money.

14 [REDACTED] Yeah. Yeah. 6

15 JIM WIGGINS: You know, we have to
16 decide that the equipment is important to spend the
17 money.

18 [REDACTED] Yeah.

19 JIM WIGGINS: And it's hard for us to do
20 the technical piece from here. That's why we've got
21 a team in the field out there. And the way we, this
22 is, we rely on the technical team tells us. They're
23 in the field. They got the best information. 6

24 So Chuck and John, Bill Cook, and those
25 guys are the ones that have been working on this.

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1 You know, they're probably hopefully getting some
2 sleep now. Maybe you should be too.

3 Are you over -- you're over, you're in
4 Japan; right?

5 [REDACTED] Yeah.

6 JIM WIGGINS: Yeah. Maybe we should do
7 this first thing early in the morning.

8 [REDACTED] Okay. But I mean, there is
9 a time factor with the units, I mean the units at
10 the Fukushima plant. We're talking about, you know,
11 we don't to delay much longer because our
12 understanding is those units are increasingly
13 vulnerable. And I mean --

14 JIM WIGGINS: Okay.

15 [REDACTED] -- diplomatically --

16 JIM WIGGINS: I --

17 [REDACTED] Sure. If you could just let
18 me, I'll let my State Department chain of command
19 know and then ask them maybe to be in touch with you
20 in the course of our night. And then, hopefully,
21 we'll have a, you know --

22 JIM WIGGINS: Yeah, well --

23 [REDACTED] There's just one, one other
24 thing -- I'm so sorry I'm hogging the line; I
25 apologize -- but, you know, another consideration

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1 too, as I started to say, is [REDACTED]

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JIM WIGGINS: Okay. What, what I think we should do -- we're, we're, you know, we're all up here up anyhow; our day is your night, so it's really, you guys are hard-pressed based on the time of day -- it sounds like we have six or seven hours or so to try to sort this out.

I'll just tell you that, you know, basically we think AID made a decision that the last time we talked to our technical staff, which was in the field, which was within the last hour or so, we don't, we would not have a technical basis to say that this has to happen.

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1 The team, however they got there, has
2 confidence that the other two approaches that are
3 going on by the indigenous assets will, you know,
4 they seem to be confident that they'll have a,
5 they'll get to play out and this won't necessarily
6 be needed. It would be a backup.

7 But I grant you that there's, this
8 decision is not without other consequences. So
9 we'll stand by here ready to get on a call or
10 discuss it. It sounds like the players are State
11 and AID and our team in Japan and us here. You
12 know, we're ready to do that. Okay.

13 [REDACTED] I'll let folks in the State
14 Department know, and hopefully, we could, you know,
15 make some progress overnight.

16 JIM WIGGINS: Yeah, that's good. We're
17 here.

18 [REDACTED] Okay. Thanks, Mr. Wiggins.

19 JIM WIGGINS: Thanks a lot. Goodbye.

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1
2 (CONFERENCE CALL INITIATED.)

3 02:44:04/02:53:05

4 [REDACTED] Hello. Is this Jim
5 Wiggins?

6 JIM WIGGINS: Jim Wiggins is here. Go
7 ahead.

8 [REDACTED] Okay. So, as I said,
9 I've been directed to determine whether or not what
10 the NRC and, from what I understand from the
11 Embassy, that the NRC position is the embassy
12 position, on whether or not we want this Bechtel,
13 these four Bechtel pumps, the airlift to go forward,
14 whether or not this is, this is in fact a desired
15 procurement and, and that this is the priority
16 solution and this is what we want to go with.

17 JIM WIGGINS: Okay. So what you're --
18 what do you want for me exactly again?

19 [REDACTED] Well, Chuck Casto told me
20 that the NRC position as to whether this is what we
21 wanted to use or not, I could get from you. And
22 that seems to be what -- the issue is, the issue is
23 --

24 (Simultaneous conversation.)

25 [REDACTED] I gather there are

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1 multiple, on the one hand, the Bechtel people are
2 asking for a certain amount of money and they're
3 asking for certain things to be done. Stuff is
4 ready to be shipped but it exceeds the amount of
5 money which was originally quoted, and there's a
6 funding issue.

7 Now, if this is the preferred solution,
8 if this is the way that NRC believes we should be
9 moving to get this problem solved or to contribute
10 to an effective solution to the problem, then the
11 funding issue can be overcome.

12 JIM WIGGINS: Yeah.

13 [REDACTED] If it's not the desired
14 thing, if it's a nice thing to have but maybe
15 there's another way of doing it, or maybe the
16 Japanese will do it a different way and do not want
17 to use this method, then we would move in a
18 different direction with this.

19 JIM WIGGINS: Okay. Here's how we
20 approached the decision, and I guess the bottom line
21 is we talked to [REDACTED]

22 [REDACTED] Um-hmm, [REDACTED] at the
23 embassy.

24 JIM WIGGINS: Yeah. And I think he left
25 the call with a plan to try to put together a

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1 subsequent call that's got all the parties on that
2 have a say.

3 [REDACTED] Okay.

4 JIM WIGGINS: And that would be Chuck
5 Casto -- you have to understand, in the NRC, the way
6 we, the way we do our jobs here, and we, we do this
7 a lot domestically --

8 [REDACTED] Um-hmm.

9 JIM WIGGINS: -- you know, mostly, well,
10 only in exercises; we don't really have this --

11 [REDACTED] Right.

12 JIM WIGGINS: -- (inaudible) BMI. but
13 what we, the reason we sent, when we send site
14 teams, we put people in there and we value the fact
15 that the site team on the ground's got the best
16 information technically.

17 [REDACTED] Um-hmm. Um-hmm.

18 JIM WIGGINS: So we need Chuck in this.

19 [REDACTED] Right.

20 JIM WIGGINS: So what we're getting from
21 Chuck is that it's his understanding --

22 [REDACTED] Um-hmm.

23 JIM WIGGINS: -- that what we're getting
24 from Chuck is, from a technical point of view, the
25 system that we're talking about would be, at best, a

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1 [REDACTED] Right.

2 JIM WIGGINS: Okay?

3 [REDACTED] Okay.

4 JIM WIGGINS: So, if they, if they mount
5 their own systems, they're then taking ownership of
6 the problem and its solution, as opposed to having,
7 in the end, an NRC- or US government-imposed
8 solution on them. Do you see where I'm going?

9 [REDACTED] Yeah.

10 JIM WIGGINS: And it's much better, it
11 would, it fits much better overall when you deal in
12 the nuclear business to have the owner and, in fact,
13 the Japanese regulator have more, have more, have
14 the sense of ownership for solving this problem.

15 [REDACTED] Um-hmm.

16 JIM WIGGINS: So, in that regard,
17 having, allowing Tepco or recognizing and not
18 impeding Tepco or any other aspect in Japan moving
19 forward to solve the problem, using their own
20 capabilities, I think, would be preferable. We
21 would like it to come out that way. So that's one
22 point.

23 [REDACTED] Right.

24 JIM WIGGINS: What Chuck tells us is,
25 again, this is like a secondary or tertiary system.

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1 You know, that leads us to believe that, well,
2 that's like three ways, three, three paths working
3 in parallel.

4 [REDACTED] Right.

5 JIM WIGGINS: That's another point.

6 So the next point was, when we actually
7 saw the cost, that was pretty staggering because we
8 hadn't anticipated the cost being that.

9 [REDACTED] Right.

10 JIM WIGGINS: Of course, when it gets
11 down to, you know, you have to weigh the costs
12 against what you're trying to achieve.

13 [REDACTED] Right. Sure. Sure.

14 JIM WIGGINS: And if this were the only
15 game in town, then you'd pay the money. You know
16 what I mean?

17 [REDACTED] Right.

18 JIM WIGGINS: But because there appear
19 to be a couple other games in town, we might have a
20 little bit of an opportunity to say, well, wait a
21 minute, let's step back a bit. Let's make sure we
22 understand what we're getting ourselves into before
23 we commit the costs and commit the airframe upgrades
24 and all that.

25 [REDACTED] Um-hmm.

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1 JIM WIGGINS: So it turns out, as we
2 understand it, the stuff is basically sitting there
3 in Australia.

4 [REDACTED] : Right.

5 JIM WIGGINS: The crew's not going
6 anywhere and the airframe's not going anywhere. And
7 we have at least a night --

8 [REDACTED] To work through the
9 issues. Right.

10 JIM WIGGINS: -- to work through the
11 issues. And that seemed like the best approach.

12 [REDACTED] Right.

13 JIM WIGGINS: And that seem like the
14 best approach. We need to get, you know -- now,
15 USAID made the call, as far as we can talk tell from
16 talking the Bechtel. AID told Bechtel to
17 essentially stop the shipment. Okay?

18 [REDACTED] Well, I think AID told
19 Bechtel that they were not in a position to pay what
20 Bechtel was asking.

21 JIM WIGGINS: Well, we had a quote that
22 I have laying around somewhere we have courtesy of

23 [REDACTED]
24 [REDACTED] That's

25 pretty direct.

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1 [REDACTED] Right. 6

2 JIM WIGGINS: But anyhow, what I think
3 we need, sir, is our guys -- that would include
4 Chuck and John Monninger and us here -- and AID and
5 State, and we just get together and say, okay, what
6 are we, what is this and where do we net out on it?

7 [REDACTED] Right. 6

8 JIM WIGGINS: You know, there's
9 political considerations, diplomatic considerations,
10 and technical considerations. And then, you know,
11 you come to a -- and I think the answer is, do you
12 need it, do you send it or not? And then you deal
13 with the cost, who pays it --

14 [REDACTED] right. Sure. Sure. 6

15 Sure.

16 JIM WIGGINS: And it's not, oh, we can
17 say the day but we're not willing to spend the \$9.6
18 million. Is, is it the right thing to do --

19 [REDACTED] Yeah. 6

20 JIM WIGGINS: -- or is it not the right
21 thing? If it's not the right thing, then --

22 [REDACTED] And you're right. The 6
23 money will be worked out. Sure. Absolutely. And,
24 and we're in agreement with that.

25 JIM WIGGINS: And here's the --

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[REDACTED]

But if it's secondary or tertiary, that's sort of, that's a relevant part of it.

6

JIM WIGGINS: Yes, it is. That's what was driving our decision. If this was the only game in town, we'd say -- you know, I'd be a lot more press -- but let's move forward.

[REDACTED]

Right.

6

JIM WIGGINS: But the advice we're getting from Chuck in the field is this does not the only game in town.

[REDACTED]

Right.

6

JIM WIGGINS: Let me, let me read the, the -- I'll tell you where this comes from. This is

[REDACTED]

4

[REDACTED]

Right.

6

JIM WIGGINS: Okay, so when you look at

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1 that, actually, you can make a case than that the
2 decision fails all three scores.

3 [REDACTED] Right.

4 JIM WIGGINS: Okay. The justification
5 needs to be made on the priorities. It, it, as we
6 understand that, would not be number one. It would
7 be a tertiary.

8 [REDACTED] Right.

9 JIM WIGGINS: Acceptance by the Japanese

10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED] They're not asking for it
14 though. They'll say, if you have to, if you want to
15 give it, we'll take it.

16 JIM WIGGINS: Yeah, but they won't
17 necessarily use it.

18 And then, and then the third criteria
19 is, other equipment is not is available in Japan.
20 We think that's met either. We think that Tokyo
21 Electric found it.

22 [REDACTED] Um-hmm.

23 JIM WIGGINS: You see --

24 [REDACTED] Right.

25 JIM WIGGINS: -- so that was the USAID

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[REDACTED]

[REDACTED] And based on what we got from
Chuck, I don't think we do.

[REDACTED] Right.

JIM WIGGINS: And that's been cleared up
through our chain, including the Chairman. So --

[REDACTED] Okay.

JIM WIGGINS: Okay?

[REDACTED] All right.

JIM WIGGINS: This isn't just Wiggins
making the call here in the Ops Center.

[REDACTED] Right. No, I understand.

It's the considered opinion of the Nuclear
Regulatory Commission.

JIM WIGGINS: You got it. It's the
commission

[REDACTED] Okay.

JIM WIGGINS: All right, sir.

[REDACTED] All right, thank you very
much. You've been very helpful.

JIM WIGGINS: We are here --

MALE PARTICIPANT: Sir, I need to get
the spelling of his last name.

[REDACTED]

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1 MALE PARTICIPANT: And, sir, can I get
2 your title if possible?

3 [REDACTED] Well, the title for, for
4 today's purposes is Coordinator, Japan Task Force,
5 Department of State.

6 JIM WIGGINS: All right. Thanks a lot,
7 sir.

8 MALE PARTICIPANT: Okay. Thank you.

9 JIM WIGGINS: We're here 24/7, so if you

10 --

11 [REDACTED] Okay. So are we. So are
12 we.

13 JIM WIGGINS: Any phone calls, any
14 conferences on this, if we do get, if you guys are
15 able to put a conference together with all the
16 players, you know, we'll make it work.

17 [REDACTED] Okay. Great.

18 JIM WIGGINS: Thanks.

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1 (CONFERENCE CALL INITIATED.)

2 02:53:24/02:55:33

3 BILL BORCHARDT: Hi. This is Bill
4 Borchardt. Is Jim there?

5 JIM WIGGINS: Yeah. I'm on, Bill.
6 What's up?

7 BILL BORCHARDT: Yeah, I just talked
8 with [REDACTED] from INPO about the two o'clock
9 meeting.

10 JIM WIGGINS: Yeah?

11 BILL BORCHARDT: And I've, I think I've
12 got him on board with the, you know, the three
13 principles that we talked about earlier, and I had
14 talked to the Chairman about.

15 JIM WIGGINS: Yes.

16 BILL BORCHARDT: So I'm optimistic that
17 we're going to head off in the right direction at
18 this two o'clock meeting.

19 And I've convinced him that one of the
20 immediate follow-on activities from two o'clock is
21 going to need to be that the industry's going to
22 need to meet on their own to decide what level of
23 commitment and what kind of activities and what kind
24 of, what level of people they want to send to Japan
25 to provide interface with Tepco and, you know, have

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1 their own interface separate from and not be under
2 the leadership of NRC.

3 JIM WIGGINS: Yeah.

4 BILL BORCHARDT: You know, I told them
5 we would do a facilitation. You know, we would help
6 the invitation get extended from the Japanese
7 government if that's what's needed. But we didn't
8 want to be the lead for that.

9 So he rogered for all that. He had just
10 one simple request, and that was, if necessary,
11 could they use an NRC meeting room for, for that
12 meeting. So I don't think there's any problem with
13 that. But if you could ask somebody, just pull a
14 string to see if they could just stay in the ACRS
15 room where we're meeting. But they would, you know,
16 need somebody to be the escort for them I guess.

17 JIM WIGGINS: They need to get cards of
18 somebody to --

19 BILL BORCHARDT: Yeah. Right.

20 JIM WIGGINS: All right. Let me get,
21 let me try to see if we can work that request here.

22 BILL BORCHARDT: Okay. And I suspect
23 they're going to be able to get a room in the
24 Marriott, so I wouldn't, I wouldn't go to all, you
25 know, battle stations over it but just see if it's

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possible.

JIM WIGGINS: All right.

BILL BORCHARDT: Thanks.

JIM WIGGINS: All right, Bill.

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1 (CONFERENCE CALL INITIATED.)

2 02:55:37/03:01:04

3 JOSH BASKIN: Hey guys.

4 (No response.)

5 JOSH BASKIN: Hello? Hello?

6 JIM WIGGINS: Hey, Josh. Could you just
7 wait a sec?

8 JOSH BASKIN: Absolutely.

9 JIM WIGGINS: Go ahead, Josh.

10 JOSH BASKIN: Yeah, I'm here. Is Bruce
11 in there too?

12 JIM WIGGINS: Brian McDermott and I are
13 here.

14 JOSH BASKIN: Great. So I just talked
15 to, I just got another call from USAID just to
16 verify, Jim, what, where we were a few, an hour or
17 two ago, and I circled back through Brian to you
18 that the Chairman was comfortable with that.

19 JIM WIGGINS: Yes.

20 JOSH BASKIN: So, should I just reaffirm
21 that we do not believe that there is a technical
22 urgency to this?

23 JIM WIGGINS: Yes.

24 JOSH BASKIN: We think it would be the
25 third option to get the equipment --

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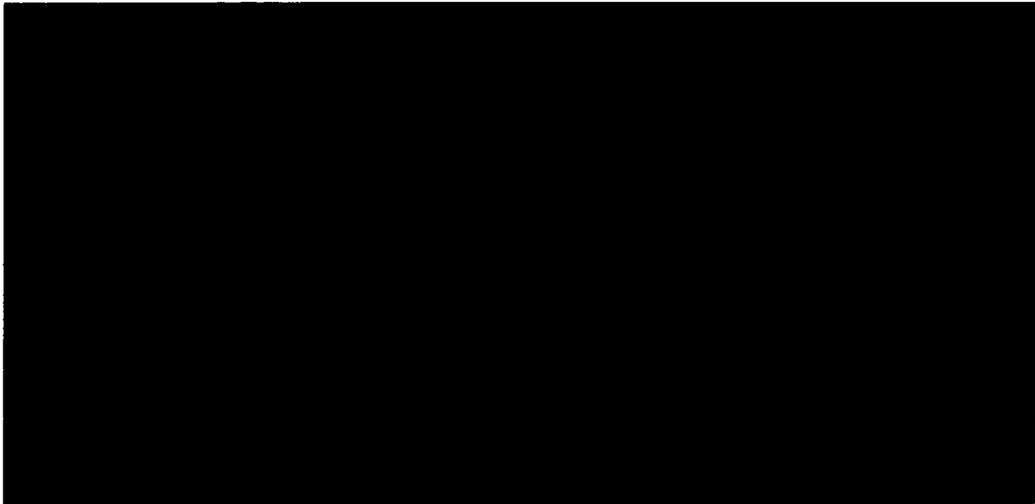
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1 JIM WIGGINS: Yeah.

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JIM WIGGINS: We haven't changed. I haven't talk to Chuck since then.

JOSH BASKIN: Okay.

JIM WIGGINS: One thing that you want to realize is that the Naval Reactor piece, the guys -- and they're listening here today -- they're on the, they're in the room. They've been working with us in our RST.

JOSH BASKIN: Great.

JIM WIGGINS: The Naval Reactors, I guess used the word, "position" (with a small "p") is they see that having at least one train transported would be a valuable defense in depth measure. Okay?

JOSH BASKIN: Okay.

JIM WIGGINS: And I think, and there is merit in that discussion, but I think everything all

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1 still hangs together.

2 JOSH BASKIN: Okay.

3 JIM WIGGINS: From a technical, from a
4 technical point of view, there's not a sense of
5 urgency because this is not the only game in town.

6 JOSH BASKIN: Okay. Got it.

7 JIM WIGGINS: It would be a, a second
8 third back up that was actually more of a defense in
9 depth measure that we shouldn't seize at either.

10 I think the best thing to do is that we
11 all got ourselves together when it becomes daytime
12 in Japan -- State, AID, Naval Reactors, NRC at least
13 -- get on a call and just make a decision about what
14 to do with this one train.

15 JOSH BASKIN: Got it.

16 JIM WIGGINS: Okay?

17 JOSH BASKIN: No, I think I understand.

18 And -- I've been hanging around with Navy people
19 too long, I guess, because that was, I mean, that
20 was my guess too, it's, you know, it's always good
21 to have defense in depth.

22 But, but with the escalating costs and
23 the, the lack of sense of urgency, we're not going
24 to push on USAID to come to a different decision
25 than they have at this point.

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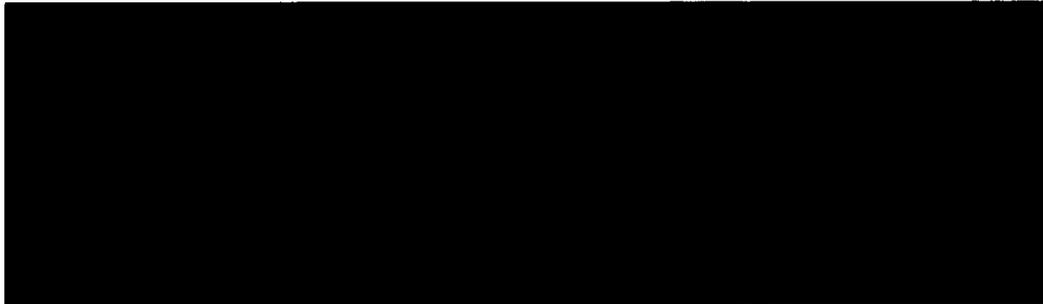
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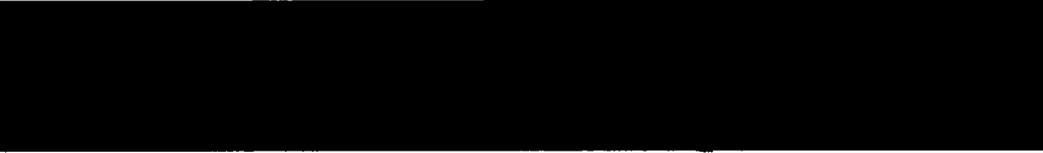
JIM WIGGINS: Not now, but I would hope there would be a conference call. We'd just lay it all out and then collectively they just decide it.



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JOSH BASKIN: Right.

JIM WIGGINS:



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JOSH BASKIN: Right.

JIM WIGGINS: Okay? So that --

JOSH BASKIN: I think, I think the fact that the team worked with them, designed it, the fact that we delivered it both in Washington and to the ambassador in Japan, had the desired effect of getting them thinking along those lines. So, yeah, no, I agree.

JIM WIGGINS: So there's, we've already got movement, we've already had an effect by what we've done thus far, regardless of whether this stuff ever shows up.



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MALE PARTICIPANT: That would be our position to.

JIM WIGGINS: All right, so Naval Reactors says they're going to sign up to that too, plus the defense in depth piece.

JOSH BASKIN: Okay.

JIM WIGGINS: Okay, I think, I think we're all right. But as time goes on, we need to get a better answer.

JOSH BASKIN: Got it. Okay.

JIM WIGGINS: So I guess if I don't -- well, I guess I'll turn this over to Sheron. He'll be around in the next shift and there will be daylight in Japan. We'll get, you know, we'll get a reasonable time to get Chuck up and see if we can get a call among all the cognizant parties and then just make a, make a decision that sounds like it's a decision. Okay?

JOSH BASKIN: Okay. And again, from where we stand, we're not deciding whether or not it goes. We're deciding whether or not we, as the

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1 technical experts, are going to advise USAID that it
2 is a very high priority. And if we tell them that,
3 then they'll look at it differently. If we tell
4 them we think it's a good thing to do because its
5 third in line, their position right now is they're
6 not going to do that.

7 So that needs to be our focus. Is there
8 any information which changes, which tells us that
9 we think from a technical standpoint that it is a
10 very high priority to get it there now?

11 JIM WIGGINS: Yeah, it might be helpful
12 to get the Naval Reactors people together. They can
13 speak for themselves in terms of their view on this
14 defense in depth value. That's an important element
15 to put on the table.

16 JOSH BASKIN: Good. Good. Okay. Well,
17 if you guys come to a different conclusion at some
18 point, just let me know so you or, or I can touch
19 base with Nancy Lindborg, the assistant
20 administrator, directly.

21 JIM WIGGINS: Okay.

22 JOSH BASKIN: Great.

23 JIM WIGGINS: Yep.

24 JOSH BASKIN: Thank you, sir.

25 JIM WIGGINS: All right, Josh. Bye.

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(CONFERENCE CALL INITIATED.)

3:01:17/

(Standby 3:01:17 to 3:06:07.)

BRIAN SHERON: All right. This is, this is the NRC.

MALE PARTICIPANT: USAID is on the line.

MALE PARTICIPANT: NRC Japan is present.

[REDACTED] Embassy Japan, Political Section, [REDACTED]

BILL YOUNG: Bill Young.

MALE PARTICIPANT: American Embassy, Canberra, [REDACTED]

BRIAN SHERON: Hi. This is Brian Scherer out at the NRC. Is USAID, do you guys want to start the meeting?

[REDACTED] [REDACTED] [REDACTED] [REDACTED]
[REDACTED] I'm not sure who actually called the meeting. I'm happy to give kind of the background that I have to my knowledge, and we can go from there if that's what the preference is.

BRIAN SHERON: Sure.

[REDACTED] Okay. Just a quick background is we just got the request in yesterday, this, these pumps -- and forgive me in terms of the

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1 technical ground forgive me about the technical
2 background of exactly of what they are (inaudible)
3 -- had requested yesterday and had been advised that
4 the total amount was for \$785,000. We have learned
5 since then it was not a correct amount. We, we
6 confirmed with DOD that they did have funding to pay
7 for this, and they did approve that funding to be
8 able to pay the \$750,000.

9 This morning we received notification,
10 probably about five, 5:30 a.m., that the total cost
11 was actually \$9.6 million. There was also a lot of,
12 there was not a confirmation that this was a real
13 specific identified need, humanitarian need, or had
14 any sort of a real urgent need on the ground. There
15 had been different information coming in that this
16 may or may not be a need; it might be kind of
17 secondary or tertiary need.

18 For us, the important thing was just to
19 get the correct information to DOD. This is not a
20 USAID decision. this was really (inaudible) for
21 colleagues in NRC to tell us what the needs are, and
22 then we were trying find the proper funding source
23 for it. So I think there was some confusion on that
24 and, and there were a lot of different people
25 weighing in with different ideas about what the

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1 needs were.

2 Now, at the same time, I understand
3 there was, was conversations going on at the ground.

4 But our perspective -- we had been told that DOD
5 had provided funding for up to \$750,000, and
6 therefore, had given the green light on that figure.

7 Anything beyond that, we just needed to get
8 confirmation from DOD that, and, that they had the
9 authority to approve more. So that, that's kind of
10 where we're coming for a mere.

11 My understanding is this has been, DOD
12 hasn't gone ahead and (audio interference) up to \$10
13 million. (Audio interference)

14 USAID doesn't have any objection to
15 this, So I think that's where e stand this point.

16 MALE PARTICIPANT: Somebody's speaking
17 in the background causing you to mute out. We got
18 most of that conversation, but whoever is in a
19 satellite station that's got background speaking,
20 they need to cease it.

21 BRIAN SHERON: Yeah, could you repeat
22 the last part again, Kathleen?

23 [REDACTED] I think the last part
24 was that the, the, best I understand it (inaudible)
25 there was a conversation with DOD. NRC colleagues

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1 had validated, at well as DOD, that this was a need
2 on the ground. DOD, from my understanding,
3 confirmed that they were in a position to fund this,
4 and USAID has, we have no objection to any of that
5 as long as all, all of you guys are on board with
6 this and the approvals have gone through.

7 The party that strikes me that really
8 should be on this call is DOD and I'm, I never heard
9 anybody from OSD on here. Because it is not -- and
10 I hope this is clear. This is not USAID funding.
11 This is not our funding stream, nor do we have
12 authority to approve any money on the behalf of DOD.

13 So our position is more to link up the different
14 parties and to, you know, essentially to say that we
15 had don't object, which has been kind of our point
16 since the beginning.

17 [REDACTED] It's [REDACTED] here in Tokyo.

18 We, we can certainly reach out to PACOM, where I
19 understand the funding is going to come from. But
20 could you repeat the number that -- I kept hearing
21 \$750,000, I thought -- but what is, what is the
22 commitment the DOD has made and then your
23 understanding, the full \$9.7 million or whatever it
24 is?

25 [REDACTED] So the initial

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1 \$750,000 was the commitment made yesterday based
2 upon an estimate given to USAID from -- I think
3 there were miscommunications between Bechtel and
4 NRC. Bechtel, to my understanding, gave that figure
5 of \$750,000 to NRC, and it was not as a complete --
6 as we, as is quite obvious right now -- figure,
7 funding figure. That message was communicated to
8 USAID that this is the total amount requested, so
9 DOD had, under their funding authority, approved
10 \$750,000.

11 The message we then received in this
12 morning was that the total cost associated with
13 these 12 pumps was somewhere around \$9.6 million.
14 To be very honest, we have sort of extracted
15 ourselves from these conversations because it really
16 is something that's between NRC and Bechtel to
17 determine what the total costs are, and, at that
18 stage and get approval from DOD for funding.

19 USAID -- the only place that we have and
20 this was bringing the two together and saying that
21 we have no objection, which has been our stance from
22 the beginning.

23 [REDACTED] This is [REDACTED] [REDACTED] Just
24 from a very practical standpoint, has that been
25 communicated to the folks on the ground in Perth?

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1 Because the plane had loaded up last night and then
2 when there was, you know, our correspondence back
3 and forth, the pilots went in for the evening, and I
4 believe the cargo was still loaded. So I, I'm just
5 hoping that the plane isn't preparing to take off
6 without knowledge that we now have approval for
7 this. Does anybody know?

8 MALE PARTICIPANT: [REDACTED] there was also
9 an issue associated with the plane that had an
10 electrical failure. The plane is grounded. They're
11 bringing in another plane from elsewhere. So, you
12 know, it, it's, right now, the transport is on hold
13 in Perth.

14 [REDACTED] Okay, because I thought the
15 one that's loaded is not --

16 MALE PARTICIPANT: There was a real plan
17 on the ground that was being loaded. So earlier,
18 there was a plane that had to turn back, so I want
19 to make sure we're all talking about the same, the
20 same plane.

21 I mean, I have the Australian Department
22 of Defense on the other line, and I could find out
23 immediately. The status. But since I don't have
24 guidance on what our government is doing, I want to
25 make sure I knew whether we were going ahead or not.

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1 But I can get that and send it by email to folks in
2 a, in a couple of minutes.

3 But again, I want to make sure that I
4 know what my instructions are from the US
5 government.

6 [REDACTED] Does anybody know who at
7 PACOM is the point of contact on this?

8 [REDACTED] We're, we're trying to
9 track down a woman who actually was working with OSD
10 Policy, who -- not Clark. It's N-G-O-C, C-L-A-R-K
11 -- is our contact over at OSD policy, and she was
12 the one that was working this on the DOD side in
13 coordination with (audio interference.)

14 Now, I don't have -- again, we kind of
15 pulled ourselves out of this, and I don't have a
16 direct contact with PACOM as we (audio interference)
17 OSD policy.

18 [REDACTED] [REDACTED]: Hi there. This is [REDACTED]
19 [REDACTED] Department of State, Task Force 1. If you
20 guys can just send the latest email chain to the
21 Task Force 1 email address, I can pass this to our
22 guys that the Joint Staff ops center and they should
23 be able to better route it to the PACOM folks or at
24 least attack it through that channel too.

25 [REDACTED] I'm not sure that

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1 there is an email update kind of articulating these
2 latest events.

3 MICHAEL DUDEK: Just, just from a
4 logistics standpoint, I'd like to take a step back
5 for, for one minute. Is this the direction we want
6 to head? Is this the correct direction? Because
7 we'd heard from Mr. Wiggins earlier from the NRC
8 that he, he did not want to proceed down this path.

9 [REDACTED] Well, again -- it's [REDACTED]
10 -- but I'm afraid we already have proceeded down
11 this path, so we, we made this offer and it's been
12 informally accepted [REDACTED]

13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 Plus, my understanding from the
17 correspondence overnight was that there had been
18 approval to move forward from the NSC, DOD, State,
19 at the assistant secretary level at least. I saw
20 the emails, so --

21 (Speaker interference.)

22 (Standby.)

23 BRIAN SHERON: This is Brian Sheron at
24 the, at the NRC. A couple things. One is that my
25 understanding when I talk to Jim Wiggins -- I'm, I'm

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1 the ET director right now. Jim went home -- is that
2 what he said is that right now, he understands that
3 the Japanese don't need those pumps as a primary
4 source of pumping water, sea water, into the
5 reactors.

6 They would be used, or they would accept
7 them and they would be considered backup, like
8 either secondary or tertiary. I don't think he said
9 that they're not needed. He was just saying, in
10 fact, they are no longer the primary source of pumps
11 that the Japanese need.

12 The other thing is that we have an email
13 here that was just handed to me, that apparently
14 Bechtel, somebody, [REDACTED] --

15 MALE PARTICIPANT: Right.

16 BRIAN SHERON: -- from Bechtel sent an
17 email at 9:26 a.m. today. The last line says, [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED] That's, that's from last
22 night. I think there must be some folks who are not
23 on that e-mail chain.

24 I tell you what, I'm going to -- this is
25 [REDACTED] -- I'm going to drop from the call and I'm

Handwritten marks on the right margin, including a checkmark and several scribbles.

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1 going to call Bechtel right away and tell them that,
2 at least as I understand it, there is high-level US
3 government support proceed with this shipment.

4 So at least, I just want to -- I don't
5 want to plane to leave, so let me drop and do that.

6 Okay?

7 MALE PARTICIPANT: Yeah, and I'll, I'll
8 call the Department of Defense in Australia and say,
9 at any rate -- I mean, I guess I have to -- I mean,
10 we need a decision-maker here, but I'll tell them as
11 far as I know, it is still on and ask him what the
12 status is of the airlift out of Perth. Is that what
13 you want me to do, [REDACTED]

14 [REDACTED] I think that would be great. 6

15 MALE PARTICIPANT: Yeah, okay.

16 [REDACTED] Great.

17 [REDACTED] And if I could, if I could go
18 back to the previous point, maybe there's new
19 information, but what I understood yesterday was
20 that they were trying to get a pumping system up,
21 but it hadn't started yet and they didn't know if it
22 was going to work. So I'm not sure that it's fair
23 to say that this would be a backup or that the
24 primary system is, is, is even working at this
25 point.

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1 JOHN MONNINGER: John Monninger.

2 [REDACTED] [REDACTED] [REDACTED] [REDACTED]
3 [REDACTED] I just wanted to let
4 everyone know, I did get an email contract, as I
5 understand, from PACOM. [REDACTED]

6 is the person who has been trying to coordinate this
7 from the DOD side. So, probably, somebody can reach
8 out and give him a call to get confirmation.

9 But I think the, the main question is
10 whether or not NRC and DOE are on board with this
11 and validate this and other implications in terms of
12 the political considerations on the ground.

13 But as far as I understand from the
14 highest levels, and (audio interference), we at
15 least -- okay. Okay -- at least from DOD, there is
16 support. You know, they're happy to support it if
17 this is a request (audio interference).

18 [REDACTED] We still need but, the person
19 in PACOM who's, who's going to pay.

20 [REDACTED] [REDACTED] That's, that's Michael
21 Schiffer you probably want to contact.

22 [REDACTED] No, Michael Schiffer's not in
23 PACOM. Michael Schiffer's in the Office of the
24 Secretary of Defense in Washington.

25 [REDACTED] No, I understand. He

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1 has an email here that I'm happy to forward on to
2 anyone that says to say it's a validation; PACOM is
3 ready execute. So it sounds like he can make a move
4 forward.

5 [REDACTED] Can you fire that off to
6 Department of State Task Force 1? It's just Task
7 Force 1, task force-1@state.gov. Thanks.

8 [REDACTED] Sure. Happy to do so.

9 BRIAN SHERON: So, to maybe try to focus
10 the discussion on the decision-making, there's a
11 technical aspect and there's a political aspect.
12 The technical aspect changes over time as the
13 government and Tepco take action.

14 Where, where we were last week when we
15 talked with the Japanese government, they were very
16 much interested in the system. Since then, it's, I
17 guess it's our understanding, they continue with the
18 fire trucks in and out. They have a remotely
19 operated fire truck also on site (audio
20 interference) hours or so. In addition to that,
21 they had a plan for using a concrete pumping truck,
22 and it's our understanding, for the concrete pumping
23 truck, that that's also (audio interference). That
24 would be from the technical point of view, it sounds
25 like they have three different means for engaging on

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1 site.

2 From, I guess, a political point of
3 view, we did definitely offer this equipment, and
4 they were to get back to us on an acceptance. From
5 what [REDACTED] is -- I'm sorry -- from what [REDACTED] is saying
6 there, it sounds like they, you know, have accepted.

7 [REDACTED] Yeah, my understanding is
8 that this has been, now, endorsed by the defense
9 minister and the chief cabinet secretary. So I, I,
10 I think politically, if this, if it were to get out
11 that we offered this and then pulled it back, it
12 would be very, very damaging. And again, if --

13 MALE PARTICIPANT: May I offer a
14 suggestion? [REDACTED]

15 [REDACTED] Yes.

16 MALE PARTICIPANT: My understanding from
17 the turnover information last night is that the four
18 systems are actually going to be staggered delivery
19 anyway, with the first one currently sitting in
20 Perth and available to be delivered and the next one
21 following by day or days after that.

22 So may I suggest that we just go ahead
23 and pursue getting the first system here, completing
24 the delivery, getting it staged, put together, make
25 sure it works, turn it over to the Tepco [REDACTED]

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1 [REDACTED] or whoever is going to take
2 possession of it, and then await their further
3 request if they want more of the systems?

4 [REDACTED] I think that sounds
5 reasonable to me. I, I don't know when the second
6 flight is scheduled to leave, but as a first step,
7 that certainly sounds reasonable.

8 MICHAEL DUDEK: We need a little bit
9 more clarification about the, the logistics behind
10 when that plane lands in Japan. Are we going to
11 pick it up from the airport and transport it to the
12 site?

13 [REDACTED] We were told yesterday that
14 the plan would arrive Yakota Air Force Base and the
15 self-defense forces would arrange for transport to
16 either a training location or to the site.

17 MALE PARTICIPANT: And General Electric
18 Hitachi was also involved in there with to the
19 transport being to their facility for assembly and
20 testing before it went to the site.

21 [REDACTED] I, I, I, I think we, we
22 probably need to know if -- Task Force 1, are you
23 still on the line?

24 [REDACTED] Yes.

25 [REDACTED] I think what we need to know

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1 here is, is this definitely a go? In other words,
2 has PACOM got the money and have they approved this
3 request. So could you follow up immediately with,
4 with OSD and the Joint --

5 [REDACTED] Yes.

6 [REDACTED] Yes, this is [REDACTED]
7 in Canberra. Is [REDACTED] back on the line, or is
8 he still calling [REDACTED]

9 [REDACTED] No, but you can tell me.

10 It's [REDACTED]. Go ahead.

11 [REDACTED] Okay. I just talked to
12 this Australian Department of Defense and confirmed
13 that the C-17 is on the ground in Perth. It's
14 partially loaded from last night. There's a second
15 C-17 on tap. I'm not sure whether it's already
16 landed or about the land.

17 And they are, if they get the go-ahead
18 already to send two sorties today, one at 1200 local
19 Perth time, which is about -- I'm probably going to
20 be off or by about an hour so here -- but let's say
21 about six hours from now, and the second one at
22 1400, which would be like eight hours from now.

23 And I think they're, the Australians are
24 in on these same emails, so they're just as confused
25 as everyone else. So they just want the formal

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1 go-ahead to proceed, you know, and so that's what
2 we're looking for on this end. But the plane is
3 really there. It's partially loaded. They're
4 committed to it. They have the defense attaché in
5 Japan that will be waiting at Yakota when it
6 arrives. So there's no operational confusion on the
7 Australian side and there are real assets there.
8 It's just a question of, you know, giving the formal
9 go-ahead.

10 [REDACTED] Okay, so --

11 [REDACTED] I just wanted to confirm, I,
12 I just spoke with the defense attaché and the plane
13 is still there and awaiting instructions.

14 [REDACTED]: Hey, [REDACTED], did you get through
15 to Bechtel?

16 [REDACTED]: No. I, I left a phone
17 message.

18 [REDACTED] And I, I think the key point
19 here is we need to get the go from, from PACOM that
20 they're going to pay, and then we can tell the plane
21 to fly.

22 [REDACTED] Was the NRC team -- did you,
23 you had mentioned a contact person.

24 (Simultaneous conversation.)

25 [REDACTED] No, there's --

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1 MALE PARTICIPANT: -- is the contact
2 from NRC.

3 [REDACTED] [REDACTED] [REDACTED] there was a contact
4 that was given, but it was, it was Michael Schiffer
5 it OSD.

6 [REDACTED] [REDACTED] Okay.

7 [REDACTED] [REDACTED] So, again, we don't know who
8 in PACOM -- I mean, is Admiral Willard out here now?

9 [REDACTED] [REDACTED] He, he was here as late as
10 two days ago. I can try to run this to the ground.

11 [REDACTED] [REDACTED] Admiral Walsh, I know, is
12 coming. Anyway, we need to get somebody to, to tell
13 us that this is a go and do it right away.

14 [REDACTED] Okay. I'm going to drop
15 again and start working on that.

16 BRIAN SHERON: This is Brian Sheron at
17 NRC. Also, is somebody got a call Bechtel and tell
18 them to get the other systems ready if, you know, if
19 we do decide to go ahead with all of them?

20 [REDACTED] That's what I was trying to
21 do. I left a phone message to that effect, and I'll
22 try calling, I'll also send an email.

23 BRIAN SHERON: Okay.

24 [REDACTED] Okay. All right. I'm
25 dropping now. Thank you.

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1 MALE PARTICIPANT: Okay. Who's left on
2 the line?

3 BRIAN SHERON: I've got one more
4 question, or a couple here.

5 John Monninger, are you still on?

6 JOHN MONNINGER: Yeah.

7 BRIAN SHERON: Okay. One of the
8 questions is, do the Japanese need any assistance
9 with robotics?

10 MALE PARTICIPANT: This is, this is
11 Canberra. I'm going to drop out now. We'll wait
12 for formal guidance here. Thank you.

13 BRIAN SHERON: Okay, do they need any
14 help with, with robotics and infrared flyovers?

15 JOHN MONNINGER: Okay, so there's two,
16 two topics there. We'll hit the first one,
17 robotics. And we talked about two types of
18 robotics. One is the things you see a nuclear news,
19 those little things that crawl through contaminated
20 facilities, DOE sites, rubble, take rad detections,
21 measurements, video cameras, all that kind of stuff.

22 We have mentioned it on numerous occasions, and we
23 said it's commercially available and it's been used
24 for 15, 20 years or so. And we have asked them if
25 they would like to have us pursue it, and they have

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1 been noncommittal, nonresponsive on that.

2 We've talked to them about the merits of
3 using it to try to more accurately characterize the
4 sites in terms of protection for the self-defense
5 forces or the firefighters going in, where they
6 could potentially station them. We talked to them
7 about the merits of these robots to characterize the
8 sites. But if they did put in the spray system,
9 they would know where it is more protective for the
10 workers to do so. But they've been noncommittal in
11 wanting to accept that.

12 In terms of the dose assessments, you
13 know, -- so that for outside.
14 The other thing we've said is, you know, they also
15 used that inside the building. Of course it would
16 be up problems for doorways et cetera but, you know,
17 we've mentioned to them that the potential use of it
18 inside the reactor buildings. And they could figure
19 out more what's going on or underneath, you know,
20 because your spent fuel pools are way up in the air.

21 You know, you, you can get around those vicinities
22 to see if there's any leakage. And they've been
23 noncommittal, nonresponsive on that.

24 The second remote equipment we mentioned
25 was the lead that we got from someone on the ET or

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1 maybe the Reactor Safety Team about the Lockheed
2 Martin remote-controlled, unmanned helicopter
3 capable of lifting 7,000, 5,000 pounds. We talked
4 to them about the merits of using something like
5 that for potentially installing any of these types
6 of pumping systems.

7 And then actually, on our phone call
8 with Bechtel and Tepco and all those guys a couple
9 of nights ago, we mentioned to Bechtel, would it be
10 possible to do some type of assessment of using, you
11 know, more of an engineering assessment, of using
12 these helicopters, or using this helicopter, to, to
13 get the pumping system installed. They, they, they
14 hadn't completed that but they thought it had a lot
15 of merit.

16 In our meeting with the defense ministry
17 yesterday, we also mentioned this. And, and they
18 have everything that we've talked to them about.
19 They seem to have had the interest in the
20 helicopter. But, but even with that, they did not
21 commit or respond for any of it.

22 [REDACTED] Yeah. I, I think that's
23 probably an accurate summary of the meeting itself,
24 but I did get a call last night from the, the guy
25 who was leading that meeting who said that, now that

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1 he's taken this to the minister, that this decision
2 -- he didn't specify on which; I think he was mainly
3 talking about the Australian shipment -- but my
4 impression is that the Japanese are now willing to
5 accept any and all (inaudible).

6 JOHN MONNINGER: And that's, I wasn't in
7 on any of the emails, but it is my understanding,
8 which could be incorrect, that Lockheed Martin might
9 have offered the helicopter for, for free or for
10 whatever, recognizing, of course, that any of this
11 equipment is not going to come back.

12 So, so right now, I guess that's [REDACTED] I
13 don't think we're pursuing or (audio interference)
14 we're pursuing anything more with this or not. It's
15 our understanding that they got the go-ahead and
16 they want it and they'll accept it, but I'm not sure
17 we've taken it to the next step.



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24 [REDACTED] And we can clarify now, today,
25 whether the acceptance is only for the flights from

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1 Australia or for the whole package that we discussed
2 yesterday.

3 JOHN MONNINGER: My, my personal view is
4 that, given where they are today, the thing that
5 would be most valuable would be the
6 remote-controlled helicopter. I mean, I do
7 recognize, if they have accepted this spray systems,
8 they need to most likely continue with that, given
9 all the political considerations.

10 The spray system was of utmost priority
11 when last week when we met [REDACTED] and it didn't
12 really seem like they had a, a clear path forward as
13 they were looking for something really on-site by
14 Friday night. So I think things have changed quite
15 a bit from that aspect.

16 Brian, you mentioned the second topic,
17 the, the infrared, the flyovers, all that kind of
18 stuff. I think there's two aspects of it, and
19 however the Japanese do it and however the US do the
20 over-flights, but the Japanese have been doing
21 over-flights -- I guess some of it's with
22 helicopters. I'm not sure how they're doing it.
23 But they did share some of that data and information
24 with us. And then Jim Trapp is here. [REDACTED]

25 [REDACTED]

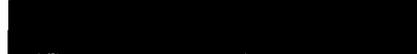
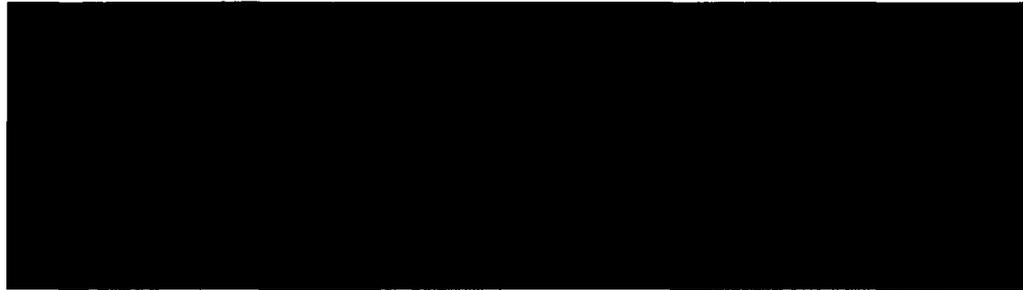
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Is there still a need for us

to contact DOD or anybody to do over-flights of a
BWR here in the US.

JOHN MONNINGER: I, we don't believe so.

No.

JEFF TEMPLE: Okay, that request has
been kind of -- this is Jeff Temple from the liaison
team -- it's been on our plate for a couple days.
The other issue was a Lockheed Martin helicopter.
I've got to contact the guy that got that. The
aircraft, the young man helicopter, that aircraft,
the unmanned aircraft, the helicopter is in
Bloomfield, Connecticut as we speak. If that, if we
decide to go through with that, my guess is we'll
need to have USAID to organize that will need to
have USAID organize that because it's an asset that

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1 needs to be paid for or negotiated for whatever. Is
2 that the right process?

3 And I can provide somebody with the
4 contact information for the guy from Lockheed Martin
5 that runs that. What's our next step with that
6 remotely operated helicopter?

7 JOHN MONNINGER: I, I think our next
8 step with that -- and [REDACTED] [REDACTED] you can correct
9 me -- is we would be wanting additional feedback
10 from, even though they said yes, from the Ministry
11 of Foreign Affairs. We, we need clarification on
12 that; yes, was it just limited to the spent fuel
13 pool cooling system or was it much broader, the
14 acceptance of the offers to include the remote
15 equipment, including the remote helicopter, et
16 cetera.

17 [REDACTED] [REDACTED]: Yes. I, I agree with that.
18 I also think that if we're going to be funding the
19 cost of this, then we need to find out what the
20 price tag is because we don't want to run into the
21 same issue with AID.

22 JOHN MONNINGER: There was, there was --
23 someone may be can correct me in the line -- I
24 thought there was some emails out there and some
25 discussions with Lockheed, some VP, saying they were

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1 donating it. Has anyone seen that?

2 BRIAN SHERON: I have not here at the
3 NRC, but that doesn't mean it doesn't exist.

4 JOHN MONNINGER: I did not myself
5 receive it, but there was a guy on our van on the
6 trip back from the Ministry of Defense who had said
7 that.

8 [REDACTED] That may be [REDACTED] was
9 -- was it [REDACTED] Yeah.

10 MALE PARTICIPANT: Well, I, I've got the
11 contact information to the Lockheed Martin person
12 who controls that asset and can give us quick access
13 to that. He's in New York.

14 JOHN MONNINGER: You know, what I would
15 say with the -- in my personal opinion, it's a lot
16 of running a robot on the ground with a camera and
17 infrared detectors and some radiation measurements
18 than it is remote-controlled -- it's probably a
19 pretty big helicopter if they can carry 5,000
20 pounds.

21 BRIAN SHERON: Yeah, a maximum of seven
22 but they like to keep it at five.

23 JOHN MONNINGER: So I think, you know,
24 who's going to -- it's -- I, I think considerable
25 consideration would have to come in as to who's is

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1 going to operate that.

2 MALE PARTICIPANT: Exactly.

3 BRIAN SHERON: We also have to
4 investigate another asset. NASA has a humanoid type
5 robot that has full (inaudible) hands, arms,
6 shoulders, feet and everything else. It's on a
7 stable platform with wheels. And I think they
8 manufactured that for General Motors, but that's
9 another potential asset that could be remotely
10 operated.

11 JOHN MONNINGER: You know, something
12 like that within reactor building, a robot, would be
13 good. But you know, my concern there would be that
14 the doors, normal doors that are, you know,
15 security, locked up. How do you get through them?

16 BRIAN SHERON: But again, the NRC
17 Headquarters Liaison Team has access information for
18 the remotely operated helicopter and NASA assets.
19 If anybody would like that and goes through the DART
20 process, or whatever else, call us and we can
21 provide that contact information. Right now, we're
22 on hold.

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1 JOHN MONNINGER: We're, and, and I did
2 mention, we're going to touch base with Chuck this
3 morning, so --

4 BRIAN SHERON: Let us know.

5 JOHN MONNINGER: -- on the flyover the
6 US.

7 [REDACTED] Did somebody get that contact
8 for Lockheed Martin?

9 BRIAN SHERON: Yes. I don't have a
10 right here but I can provide it.

11 [REDACTED] Okay.

12 BRIAN SHERON: But does somebody want to
13 give me an email address?

14 [REDACTED] Well, I guess, send it to the
15 NRC group out here, and that'll be [REDACTED]

16 [REDACTED] -- I'm sorry -- [REDACTED] Well, just
17 send it to me. It's [REDACTED]

18 BRIAN SHERON: Okay. I've got it right
19 here. The guy's name for the Lockheed Martin
20 remotely operated helicopter is [REDACTED] His
21 telephone number is [REDACTED], and [REDACTED]

22 JOHN MONNINGER: And ask them like -- if
23 they don't use it today or tomorrow, I would think
24 over the next year or five, 10 years on the site
25 would be of value.

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1 BRIAN SHERON: Okay, so we will hold off
2 on doing any further research on remotely operated
3 robotics type equipment [REDACTED]

4 [REDACTED] 5
6 [REDACTED] 7
8 [REDACTED] 9
9 [REDACTED] 10
10 [REDACTED] 11
11 BRIAN SHERON: Okay. If you need
12 anything else from us, let us know.

13 JOHN MONNINGER: All right. And so the
14 feedback on the robotics, et cetera, we're waiting
15 for the feedback from the Japanese government, of
16 the ministry, and the over-flights would be feedback
17 from the Japanese NRC team here.

18 BRIAN SHERON: Okay. That's all I think
19 we have at NRC headquarters.

20 DAVE SKEEN: John, can you do you need
21 anything else over there in Japan? This is Dave
22 Keene.

23 JOHN MONNINGER: No. I think sometime
24 today, maybe Chuck and I, maybe we'll chat with
25 Brian and all that kind of stuff on.

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1 DAVE SKEEN: Okay. Brian just stepped
2 out, so I'm just sitting in.

3 FEMALE PARTICIPANT: Yeah --

4 [REDACTED] Can I, I just add one thing,
5 John? You're aware that a meeting with the chairman
6 of Tepco has been arranged for 10 o'clock this
7 morning?

8 JOHN MONNINGER: Yes. Chuck has -- last
9 night, it was fluctuating. We have it up on the
10 board as a definitive. We have to confirm that
11 Chuck knows about it.

12 [REDACTED] Yeah, I, I, I got a call from
13 the Chairman himself on my cell phone, so it's
14 definitely 10 o'clock this morning.

15 JOHN MONNINGER: All right. So we'll
16 have a car from here. Chuck will run out with an
17 interpreter, or?

18 [REDACTED] You were going to arrange
19 that, so.

20 JOHN MONNINGER: Okay.

21 [REDACTED] Yeah.

22 JOHN MONNINGER: Okay. Sounds great.

23 Thanks, Rob.

24 [REDACTED] I'm going to get off here.

25 JOHN MONNINGER: All right. So are you

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1 downstairs?

2 [REDACTED] I'm at home right now. I'll
3 be in, in about an hour.

4 JOHN MONNINGER: All right. Thank you,
5 sir.

6 [REDACTED] Okay. Bye-bye.

7 DAVE SKEEN: Okay, John, so here's NRC
8 Headquarters. I guess we're on hold until we hear
9 verification on exactly what the Japanese will agree
10 to accept, and we'll just stand by. And I
11 understand that you and Chuck will be calling us
12 sometime later.

13 JOHN MONNINGER: Yeah. I guess my
14 thought is I'm significantly behind on email, so it
15 doesn't work, but it's, I recognize that there's a
16 Commission meeting tomorrow --

17 TRISH HOLAHAN: Monday.

18 DAVE SKEEN: Monday. We're still two
19 days off.

20 JOHN MONNINGER: Well, tomorrow for us.
21 We're --

22 (Simultaneous conversation.)

23 JOHN MONNINGER: Yeah. But just
24 thinking about the team and the operations, the
25 Commission meeting tomorrow, and the notion of

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1 sending out additional personnel, you know, trying
2 to look at our charter and seeing, you know --
3 because whatever's said at the Commission meeting is
4 going to provide our direction, I assume, continued
5 direction for the next couple weeks. So --

6 DAVE SKEEN: Yeah, I understand.

7 JOHN MONNINGER: -- yeah. So, if we
8 want to reassess where we are on the charter, we
9 should do it today, today, and tomorrow for you
10 guys, prior to the Commission meeting, et cetera.
11 So that was the notion.

12 DAVE SKEEN: Okay, so you and Chuck want
13 to talk to some person and give us a call back?

14 JOHN MONNINGER: Yes. Yep, unless you
15 guys know of any changes in the mission in the
16 charter.

17 DAVE SKEEN: I don't think we know
18 anything at this time.

19 TRISH HOLAHAN: No. We haven't heard
20 anything yet.

21 JOHN MONNINGER: Well, the thing I'd
22 like to know is, you know, the last bullet on the
23 charter providing assistance, recommendations, et
24 cetera -- that's been the most difficult aspect.

25 DAVE SKEEN: Okay.

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MALE PARTICIPANT: Good?

(Audio interference.)

DAVE SKEEN: Yeah, good. Anything else?

JOHN MONNINGER: No.

DAVE SKEEN: All right. Well, we'll
look forward from hearing from you guys after you've
had a chance to talk then.

JOHN MONNINGER: All right. Bye-bye.

DAVE SKEEN: All right. Thanks a lot.

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1 (CONFERENCE CALL INITIATED.)

2 03:45:46/03:58:47

3 BRIAN SHERON: Hey, John?

4 JOHN MONNINGER: Yeah, Brian. How are
5 you doing, sir?

6 BRIAN SHERON: Hey, the reason I was
7 calling, when I got here and took over from Wiggins

8 --

9 JOHN MONNINGER: Yes.

10 BRIAN SHERON: -- he was telling me that

11 we had some commitment

12 [REDACTED] to provide a list of --

13 excuse me -- provide a list of equipment and people
14 at the Japanese needed, you know, I guess, to, to
15 deal with the accident. And I, you know, and it --
16 right after he told me that, he immediately said
17 that, you know, he said you know, we don't have this
18 expertise. We don't know, you know, we could
19 probably cause more harm than good. Loblaw block.

20 JOHN MONNINGER: Right.

21 BRIAN SHERON: I said, well, why didn't
22 you just push back and say we're not doing it, and
23 he said that's not an option.

24 JOHN MONNINGER: Right. Right.

25 BRIAN SHERON: A little later, I was on

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1 the phone at four o'clock with the, [REDACTED] 5
2 [REDACTED] on a briefing and -- with Pete Lyons
3 -- and during that briefing, they were going around
4 the room and they asked, they said, you know, has
5 NRC got that list of equipment?

6 I punted and said --

7 JOHN MONNINGER: Right.

8 BRIAN SHERON: -- you know, I'd just
9 gotten there and just got a turnover and I hadn't
10 really had a chance to check. And I said I'd get
11 back to them.

12 JOHN MONNINGER: Right.

13 BRIAN SHERON: Then I thought about, you
14 know, going to like Josh Baskin and just saying, you
15 know, hey, we're going to push back and say this,
16 you know, this isn't the kind of stuff we do.

17 JOHN MONNINGER: Right. Right.

18 BRIAN SHERON: But then I thought about
19 it and I said, you know, well, we just got done
20 talking about the pumps --

21 JOHN MONNINGER: Right.

22 BRIAN SHERON: -- you know, and stuff
23 that we're going to bring over, and I think there's
24 also a question about bringing some robotics over --

25 JOHN MONNINGER: Right.

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1 BRIAN SHERON: -- In the light. And to
2 me, I think that would satisfy that commitment.
3 Wouldn't it?

4 JOHN MONNINGER: I, I think it would.
5 I, I think there's four potential responses to the
6 question. The, the first response was several days
7 ago. There was a two-page, there was two pages that
8 were labeled equipment that the Japanese would like.
9 We do not know where that list came from. But the
10 list was sent back, and I think some of the stuff
11 has come through. There were some issues with
12 boron, maybe some, you know -- what you call them?
13 -- the anti-seize, and I forget everything else on
14 the list. It's, you know, certain things,
15 demineralized water, etc.

16 BRIAN SHERON: Right.

17 JOHN MONNINGER: You know, so that's,
18 that's a potential, a potential response. I'm not
19 sure where the current status of that list is, but
20 we could try to run it down.

21 BRIAN SHERON: I haven't even seen that
22 list.

23 JOHN MONNINGER: Yeah, that came through
24 probably three or four days ago.

25 BRIAN SHERON: All right, we --

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1 TRISH HOLAHAN: Is that the list Monday
2 night that the TA's were talking about yesterday?

3 JOHN MONNINGER: Yeah.

4 BRIAN SHERON: I don't know.

5 JOHN MONNINGER: We don't, to tell you
6 the truth, we, we have no idea where that list came
7 from, within the government or from Tepco or what.

8 BRIAN SHERON: All right, well then,
9 obviously, it didn't come over in any sort of an
10 official capacity, I guess.

11 JOHN MONNINGER: No. No. What, so it
12 didn't come over in an official capacity or
13 whatever. We would have faxed it over to you guys
14 somehow.

15 The second potential response would be
16 something like the sprays -- I'm sorry -- the spent
17 fuel pool cooling system. And you know, what we're
18 coming down to is the potential of success would be
19 to just ship one full train as opposed to four full
20 trains. That could, that would provide them with
21 some equipment if they ever intend to use it, plus
22 it would provide a good political solution for both
23 sides.

24 BRIAN SHERON: Well, it's, but, I
25 thought the plan was that we were going to ship the

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1 one and then, you know, let them take it over, set
2 it up et cetera, and then maybe they could make a
3 decision later if they wanted to do the rest of
4 them.

5 JOHN MONNINGER: Yeah. That's, that's,
6 that's what the plan is, but now we've got to
7 confirm with Australia --

8 BRIAN SHERON: Right.

9 JOHN MONNINGER: -- whatever the
10 shipments are. You know, you have -- if so, the
11 first plane, you don't want four pumps, four valves,
12 four nozzles, and all the hoses come on the second
13 plane.

14 BRIAN SHERON: Right.

15 JOHN MONNINGER: So we want to make sure
16 that Plane 1 is one complete train.

17 BRIAN SHERON: Right.

18 JOHN MONNINGER: Another response would,
19 of course, be nothing.

20 A fourth response would be "other". You
21 know, we could pontificate over here. You guys
22 could pontificate. I really think what we should be
23 looking at is stuff they're going to need in two
24 weeks, three weeks, et cetera, you know, stuff like
25 that remote-controlled --

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1 BRIAN SHERON: That's not our job.
2 That's DOE's job.

3 JOHN MONNINGER: Yeah. But to tell you
4 the truth, my, my assessment is they really do not
5 want any of this stuff. They're not interested in
6 the support.

7 BRIAN SHERON: Right.

8 [REDACTED]
9 [REDACTED]

19-5

10 BRIAN SHERON: Yeah. So, anyway, my
11 intent is to respond basically that, you know, we're
12 providing this, the, the one set of pumps and valves
13 and stuff, the one train.

14 JOHN MONNINGER: Right. Right.

15 BRIAN SHERON: You know, and that's on
16 its way. They'll reevaluate once that's over there
17 whether they need more.

18 I think -- where did we, where did we
19 leave -- I left the room. Where did we leave that
20 room with the robotics?

21 JOHN MONNINGER: Where we left the room
22 with the robotics was, the highest level officials
23 in Japan accepted our offer for the assistance, for
24 this equipment, but we are unclear whether that was
25 a blanket acceptance or if it was just for the spent

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1 fuel cooling system.

2 BRIAN SHERON: Right.

3 JOHN MONNINGER: Did that acceptance
4 also include the robotics? Did it include the
5 helicopter?

6 BRIAN SHERON: Uh-huh.

7 JOHN MONNINGER: So, the State
8 Department guy here with going to get back to the
9 ministry to say, hey, when you said, yes, did that
10 just mean the spent fuel pool cooling system or the
11 robotics and the helicopter?

12 BRIAN SHERON: Yeah, but I mean the
13 point is we made the contact, we made offer; we've
14 just got work out some details.

15 JOHN MONNINGER: Right. Right. Right.

16 Now if I could back to the first one,
17 you said you were going to say that the plane is
18 essentially on the way. They still do not have this
19 final approval through the group called PACOM. I
20 guess it's a DOD-type --

21 BRIAN SHERON: I wasn't going to say
22 that the plane's on the way. It was going to say
23 that, you know, we think we've worked it out.
24 They've, you know, the DOD was going to pick up the
25 tab.

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1 JOHN MONNINGER: Right. Right.

2 BRIAN SHERON: But they've got to, got
3 to confirm that they're going, that they're actually
4 going to pay the money.

5 JOHN MONNINGER: Right. Right. But
6 there could be --

7 BRIAN SHERON: But that's out of our
8 hands.

9 JOHN MONNINGER: Yeah. It's out of our
10 hands, and then DOE may sign it; they may not.

11 BRIAN SHERON: Yeah.

12 JOHN MONNINGER: Yeah, okay. Yep.

13 BRIAN SHERON: All right.

14 DAVE SKEEN: John, this is Dave Keene.
15 This is Dave Keen. Someone needs to make sure
16 Bechtel understands, though, because if they're
17 going to turn it back on and say put three more
18 systems together, they're going to go off and work
19 on that and then they're going to want the rest of
20 their money if they do that.

21 JOHN MONNINGER: Right.

22 DAVE SKEEN: So, if we only just want
23 one system, somebody needs to tell Bechtel just to
24 stand by right now.

25 BRIAN SHERON: Yeah, I know. They tried

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1 to contact the Bechtel and there was no answer.

2 DAVE SKEEN: But the last I heard was
3 that the Embassy guy was going to make sure he got
4 hold of the, Bechtel and tell them to go ahead and
5 put the other systems together. We don't want them
6 to do that right now if you don't think the Japanese
7 are going to use it.

8 JOHN MONNINGER: Okay. How about this?
9 How about we take the NRC, Japan team take the
10 action item to engage with the guy in the State
11 Department to see exactly where they are on, on the
12 ministry accepting the equipment, et cetera, and we
13 would get back?

14 DAVE SKEEN: Well, I agree. I agree,
15 John because, at least my understanding is they've
16 got one system put together and ready, and that was
17 going to get on the plane. And they were going to
18 send that now. And then they've got these other
19 systems along the way and they'd send them when they
20 were ready.

21 JOHN MONNINGER: Yeah.

22 DAVE SKEEN: So, but they, they would
23 all stop once they heard that someone wasn't going
24 to pay.

25 JOHN MONNINGER: Right.

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1 DAVE SKEEN: Someone just needs to
2 clarify that, and if they're just sending one
3 system, let's send the one system and tell Bechtel
4 to stand by unless we ask them for more.

5 JOHN MONNINGER: Yeah. And if I was to,
6 to predict the future, what I would say is I think I
7 think outcome will be the one system will go; the
8 trains 2 through 4 will be a complete stand down.

9 DAVE SKEEN: Yeah, I think you're right.

10 JOHN MONNINGER: But we don't have any
11 decisions on that.

12 DAVE SKEEN: Right.

13 JOHN MONNINGER: Right. So, with that,
14 we'll contact the guy and he'll go to the ministry,
15 but it could be, you know, some time on it.

16 We also did mention to them this notion
17 of scheduling the planes every two, four, you know,
18 six hours or even sending the first one. We said,
19 you know, you guys want to look at delays for them
20 unless this thing gets turned around. So they are
21 looking at, you know, significantly or potentially
22 delaying Planes 2, 3, and 4.

23 DAVE SKEEN: Right.

24 JOHN MONNINGER: Okay.

25 BRIAN SHERON: All right, I think that

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1 was all we had, John.

2 JOHN MONNINGER: All right. Thanks, you
3 guys.

4 MJ: Hey, John, this is MJ. Are you
5 hanging in there okay?

6 JOHN MONNINGER: Yeah. Yeah. Actually,
7 last night was probably the -- you know, I had
8 catnaps other times -- but last night was the first
9 time I really got some sleep, probably seven, eight
10 hours, so that was pretty good.

11 MJ: Oh, so you sound good today, so
12 that's positive.

13 JOHN MONNINGER: Yes. Yeah. Yesterday
14 was probably the roughest one, but yeah. We're
15 coming back, we're looking at -- it's Sunday over
16 here. We don't have many meetings. Things have
17 simmered down. So we're looking at a, probably a
18 really scaled-back staffing at least for today.

19 MJ: I thought we --

20 JOHN MONNINGER: We, we, we'd always
21 have continuous coverage at the phones here. We'd
22 cover any meetings and cover, you know, action items
23 and then, you know, we discuss it from there.

24 MJ: Okay, well, yeah, you got to take
25 care of yourself.

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1 JOHN MONNINGER: Yeah. All right.

2 MJ: All right. Thanks, John.

3 JOHN MONNINGER: All right. We'll see
4 you guys. Bye-bye.

5 BRIAN SHERON: Okay. Bye-bye.

6

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1 (CONFERENCE CALL INITIATED.)

2 3:59:10/4:34:28

3 BRIAN SHERON: Is anybody on the line
4 here?

5 PAT CASTLEMAN: This is Pat Castleman.
6 I'm on the line and, and I'm not hearing the roster
7 playback.

8 MICHAEL MARSHALL: Michael Marshall on
9 the line, and I'm not hearing the roster playback
10 either.

11 BRIAN SHERON: Why don't we just go
12 around and everybody introduce themselves. And
13 we'll just leave it there.

14 REBECCA CARDOZA: Rebecca Cardoza (phon)
15 from Commissioner Magwood's office.

16 LARRY CAMPER: Larry Camper, FSNM.

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

19 BEN HARRIS: Ben Harris, OGC.

20 PAT CASTLEMAN: Pat Castleman,
21 Commissioner Svinicki's office.

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

24 JIM ANDERSON: Jim Anderson, EDO's
25 office.

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1 MIKE FRANOVICH: Mike Franovich,
2 Commissioner Ostendorff's office.

3 CONTACT, REGION I: Contact, Region I
4 duty officer.

5 CINDY PETERSON: Cindy Peterson, Region
6 III.

7 DUTY OFFICER: (Inaudible) duty officer.

8 MALE PARTICIPANT: (Inaudible) Region
9 II.

10 MIKE: Mike (Inaudible) NRR.

11 OFFICE OF THE SECRETARY: (Inaudible),
12 Office of the Secretary.

13 ANDY: Andy (inaudible).

14 VICTORIA MIDDLEING: Victoria Middling,
15 Public Affairs, Region III.

16 LAURA: Laura, Public Affairs, Region
17 IV.

18 ROGER HANNA: Roger Hanna (phon), Region
19 II, Public Affairs.

20 MIKE DONNELLY: Mike Donnelly,
21 Commissioner Apostolakis' office.

22 SCOTT MOORE: Scott Moore, FSME.

23 KEITH McCONNELL: Keith McConnell, FSME.

24 FEMALE PARTICIPANT: (Inaudible), Public
25 Affairs, Region III.

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1 BRIAN SHERON: Okay, that, that sounds
2 like everybody.

3 So, anyway, this is Brian Sheron. I'm
4 the, I'm the ET director for the evening here and
5 I'm going to give you an update on what's going on.

6 I'm going to start with just a couple
7 items. I guess, I don't know if you're familiar --
8 there was a meeting that was called today at two
9 o'clock by Bill Borchardt. He brought in, there was
10 a number of representatives from the industry, the
11 US industry, as well as from some other government
12 agencies. Naval Reactors was there. I think it was
13 a liaison from the Pentagon.

14 The purpose was to, I guess, try and,
15 you know, discuss with the industry the need for
16 them to actually mobilize and interact with their
17 industry counterparts in Japan. The NRC did not
18 want to be seen as the de facto, taking a lead and
19 being responsible while you were managing this
20 accident.

21 The feeling was that, you know, the
22 industry does have very specialized expertise to
23 hopefully, you know, cope with these kind of events
24 and the like. And it was felt that they should take
25 a lead role in coming together, interacting with

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1 their Tepco counterparts, and, you know, either
2 making recommendations or providing other support.

3 But Westinghouse and GE said that they
4 were interacting with the Japanese through their,
5 through their, I guess it was their Japanese owners,
6 which is Toshiba and -- I can't remember --

7 FEMALE PARTICIPANT: Hitachi.

8 MALE PARTICIPANT: Yeah, and it was
9 Hitachi for GE.

10 But anyway, the meeting lasted about an
11 hour and a half. It was good discussion. When we
12 finished, the industry asked if they could stay and
13 use the room. They were going to put their heads
14 together. They were planning another meeting, I
15 think at INPO, on Monday. And they said that their,
16 their actions would be measured in days rather than
17 weeks. So, they'll be meeting, I think, Monday, and
18 we'll have to wait and see what, what they conclude
19 and what they propose.

20

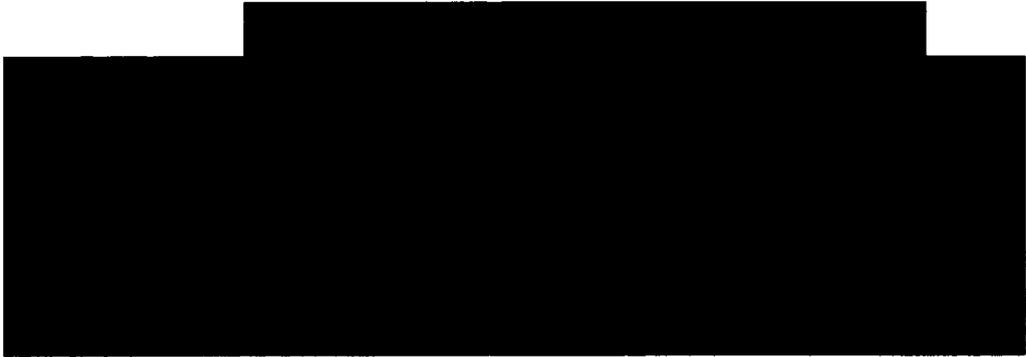
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24

25

 Pete Lyons from DOE was here and he

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5

1 sat in there with me.

2 At six o'clock, we had a conference call
3 with USAID. There was an issue that came up about,
4 Bechtel was going to ship four trains of pumps and
5 valves and et cetera that would be used to pump
6 seawater into the reactors' areas, I guess, either
7 into the reactor or to spray them down.

8 This equipment was in Australia. The
9 Australians actually called back a C-17 transport
10 from the Middle East to move this equipment. My
11 understanding is it was loaded on the airplane. The
12 cost was originally estimated at something like
13 \$750,000. And then Bechtel announced that the total
14 cost for all four trains was going to be \$9.6
15 million.

16 USAID stopped the shipment. They said
17 they did not have the money for it. They, they did
18 not agree with it. And so that was held up. During
19 the conference call at six o'clock, it was, -- they
20 were first looking to NRC to determine whether or
21 not the equipment was actually needed.

22 What we told them was that, based on our
23 contacts with our team in Tokyo, this was not, these
24 pumps and everything were not as a first line of
25 defense. In other words, they would not be used

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1 immediately but would actually be either backups or
2 even tertiary pumps in the event that the first-line
3 pumps that they're currently using didn't work or
4 failed or whatever. USAID said that that was
5 sufficient.

6 They also -- there was some, there was
7 some political implications because we had made the
8 promise to supply these pumps and didn't want to,
9 then, all of a sudden say, no, we're not sending
10 them over.

11 USAID did some groundwork with DOD, and
12 they told us at six o'clock on this conference call
13 and the DOD was now in a position to fund it.
14 However, they needed to get with the DOD office that
15 provides that funding to confirm it.

16 The C-420 is on the ground now in
17 Australia. We understand that it's partially
18 loaded. USAID has the lead now. Once they, once
19 they get confirmation that DOD is going to pick up
20 the tab, my understanding is it will be shipped --
21 and I'm sorry -- at least one train will initially
22 be shipped over there. The plan is that they'll
23 ship it over, set it up, test it out, whatever they
24 have to do. They will most likely then interact
25 with their Japanese counterparts and determine if

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1 the other three trains are needed or not. So
2 that's, that's moving along.

3 We've also inquired whether there was
4 any additional systems that the Japanese needed
5 either with robotics or for infrared detection
6 during flyovers. My understanding right now that --
7 and what, specifically on the robotics, there was a,
8 there was apparently a Lockheed Martin
9 remote-controlled helicopter that can lift 5,000
10 pounds and the question was did they need that help
11 get the pumping systems installed in or near the
12 plant. Based on our discussions with the NRC folks
13 in Tokyo, the Japanese did not either commit or
14 respond to the offer. So we are, we're not pursuing
15 either of those right now.

16 Let's see. With that, I'm going to ask
17 our PMT and RST directors to give you a quick update
18 on radiological stuff and also on, on the reactors.

19 I'm going to ask Don Cool to go first.

20 DON COOL: Okay. This is Don Cool. The
21 situation with regards to radiological information
22 is essentially unchanged from that which was
23 reported this morning. The last aerial monitoring
24 survey data that we have is now about 36 hours old.

25 We are working with DOE in an attempt to get

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1 updated information as we get to daylight, and the
2 new wave of monitoring will happen today. We expect
3 -- that last data, as you know, indicated that there
4 was a narrow band of elevated contamination towards
5 the northwest with 20- to 40-millirem (inaudible)
6 reported and a confirmation from at least one ground
7 point. That remains unchanged.

8 We also have no new information at this
9 point with regards to dose rates at locations on the
10 facility. That's also a number of hours from us
11 now. The doses between the facilities are --
12 otherwise no additional dosimetry data on
13 individuals that we are aware of at this point. I
14 think most of you are aware of the report that there
15 was, one of the individuals positioning one of these
16 fire trucks got 10 Rem in two minutes. We don't
17 have any other data either collaborating that or
18 other information.

19 The meteorological conditions there in
20 Japan are shifting. The winds, which had been out
21 of the west, therefore blowing material out to sea,
22 are gradually shifting to southwest, south and then
23 gradually continuing clockwise so that there will be
24 onshore winds during the next day or so, again,
25 initially, toward the northwest where that current

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1 higher level is. And my understanding is it's
2 continuing to shift in a clockwise fashion, which
3 will actually have it blowing from the northeast
4 towards the southwest, as in blowing towards Tokyo,
5 for some period of time, some number of hours --
6 we're not exactly sure what will actually take
7 place; this is just a forecast -- before it returns
8 back out to sea.

9 The Protective Measures Team is going to
10 be running and is at the moment running a series of
11 calculations using the previous source term just to
12 continue to validate our protective measure
13 recommendations as that wind shifts through a period
14 of time. At this point, we have no reason to
15 believe that there is any change in the protective
16 action recommendations.

17 We also understand that the Department
18 of Energy will be using their NARAC resources to do
19 a calculation actually down in Tokyo. That's beyond
20 the modeling capability that we possess here. We'll
21 be looking to understand exactly how they did that
22 to make sure that we have an understanding of any
23 dose recommendations.

24 That's it from the PMT.

25 BRIAN SHERON: Okay. Dave?

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1 DAVE SKEEN: Yeah. Thanks, Brian.

2 This is Dave Keen in with the Reactor
3 Safety Team. Just to give you an update on the
4 status of the six units at Fukushima Daiichi, Units
5 1, 2, and 3 reactors, all of the reactor cores
6 appear to be at least half-covered and cooling water
7 is being maintained on the reactors themselves.

8 We believe that the spent fuel pool for
9 Unit 1 is, is still in good shape. There's, is time
10 to boil off there, so, but the fuel is still covered
11 in the spent fuel pool.

12 In Unit 2, likewise, we believe that
13 the, the pool is also covered there for the time
14 being. They did get reserve power hooked up to the
15 substation on Unit 2. However, they haven't
16 completed getting the power into Unit 2 at this
17 time. But they're working to do that right now.
18 Once they do that, they'll have to do some check-out
19 of the pumps and motors and instrumentation due to
20 the fact that the equipment's been out of service
21 and they're not sure what condition they're in at
22 this time due to the environment they've been in.

23 Unit 3 still remains a point of concern.
24 Fire trucks did supply cooling spray there at least
25 40 tons at least twice during the day, and it seemed

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1 to have some effect as far as getting some cooling
2 in place, but it's unknown exactly how much got into
3 the spent fuel pool at Unit 3.

4 Unit 4, we just saw on television as we
5 were talking to you here that they announced that
6 fire trucks are beginning spraying on Unit 4 this
7 morning as well in Japan. So that's good news if
8 that is the case.

9 And for Units 5 and 6, although they
10 were not as severely affected, there was still a
11 temporary -- diesel generators were running in Unit
12 6. And we had an earlier report that they had seen
13 some lowering of the spent fuel pool in Unit 5 but
14 were able to restore cooling with, using power from
15 one of the Unit 6 emergency diesel generators. And
16 so Units 5 and 6, both had spent fuel pools covered
17 at that time. In addition, they have ventilated the
18 rooftops in the, the reactor buildings for Units 5
19 and 6 as a cautionary measure, just in case there
20 would a problem with the spent fuel pool or there
21 would be a hydrogen release into the secondary
22 containment that it would not take out the whole
23 containment.

24 Power restoration does continue. Units
25 1, 2, 5, and 6 -- they're still laying electrical

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1 cables there in an effort to try to, to reattach
2 some kind of power into those units. And hopefully,
3 they, they hope that they'll get power back on Units
4 3 and 4 by tomorrow. But of course, we've heard
5 that for the last few days. It always seems like
6 it's tomorrow that they're going to restore power to
7 Unit 3 and 4, and we haven't heard that yet, so
8 let's hope tomorrow is true.

9 And I think with that, that's all we
10 have on the condition of the six units.

11 BRIAN SHERON: Okay. I think that's,
12 that's about, that's about all the update we have
13 that right now.

14 Do you all have any questions?

15 BILL ORDERS: Are you open for questions
16 now?

17 BRIAN SHERON: Yes.

18 BILL ORDERS: This is Bill Orders. Just
19 a quick question. There was a report that there's,
20 a core is loaded on Unit 5 but there's no
21 parameters. How does that look?

22 BRIAN SHERON: The core's loaded on Unit
23 5? I don't know. I'll have to get back to you on
24 that one.

25 BILL ORDERS: Okay. The, you've got it

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1 loaded, meaning there's some fuel in the pot. And
2 at one time, I thought I picked up on the fact that
3 the reactor pressure was increasing, so that's a
4 real concern.

5 And one more thing. The margin that
6 you've got on the spent fuel pools, what's that? A
7 margin 2?

8 BRIAN SHERON: I think that's a margin 2
9 boil off.

10 BILL ORDERS: Like boil off to the top
11 of the core, I mean top of the fuel?

12 BRIAN SHERON: To the top of the fuel.

13 BILL ORDERS: Okay.

14 BRIAN SHERON: Of the spent fuel pool.

15 BILL ORDERS: Only one more question,
16 then I'll quit. Was there any effort to reach out
17 from the Chairman's office to his colleagues on this
18 two o'clock meeting? Over.

19 MARTY VIRGILIO: Bill, this is Marty.
20 After an initial call the chairman had with Admiral
21 Donald and [REDACTED] I took over arranged the
22 meeting.

23 BILL ORDERS: Okay. But is this
24 something that -- I'm just asking. It seems very
25 much policy issues involved here. It seems like

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1 loaded, meaning there's some fuel in the pot. And
2 at one time, I thought I picked up on the fact that
3 the reactor pressure was increasing, so that's a
4 real concern.

5 And one more thing. The margin that
6 you've got on the spent fuel pools, what's that? A
7 margin 2?

8 BRIAN SHERON: I think that's a margin 2
9 boil off.

10 BILL ORDERS: Like boil off to the top
11 of the core, I mean top of the fuel?

12 BRIAN SHERON: To the top of the fuel.

13 BILL ORDERS: Okay.

14 BRIAN SHERON: Of the spent fuel pool.

15 BILL ORDERS: Only one more question,
16 then I'll quit. Was there any effort to reach out
17 from the Chairman's office to his colleagues on this
18 two o'clock meeting? Over.

19 MARTY VIRGILIO: Bill, this is Marty.
20 After an initial call the chairman had with Admiral
21 Donald and Admiral Ellis, I took over arranged the
22 meeting.

23 BILL ORDERS: Okay. But is this
24 something that -- I'm just asking. It seems very
25 much policy issues involved here. It seems like

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1 Commission matters but there's no communication.

2 MARTY VIRGILIO: That's between you and
3 the Chairman's office.

4 BILL ORDERS: Got you. Thank you.

5 MIKE FRANOVICH: I, this is Mike
6 Franovich. I have one question for Don Cool. This
7 morning, we heard about some very low readings of
8 San Onofre, and I think the previous evening it was
9 also noted, Diablo Canyon was picking up some iodine
10 131. Do we have anything new in that, in that
11 update?

12 DON COOL: No, sir. We don't at this
13 time.

14 PAT CASTLEMAN: Hi. This is Pat
15 Castleman. I have a couple of questions. One of
16 them is, on the news today, I heard that the
17 Fukushima site was designed for a tsunami of 16
18 feet, but they actually saw 20 feet. Do we have any
19 more information on that?

20 BRIAN SHERON: I'm not, I'm not aware of
21 any. I, I had actually heard it was designed for 20
22 feet, and they --

23 MALE PARTICIPANT: Thirty-seven?

24 BRIAN SHERON: -- it was something like
25 36 and 37 feet.

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1 PAT CASTLEMAN: Oh, really. Wow.

2 BRIAN SHERON: Yeah.

3 MALE PARTICIPANT: But I don't know
4 that that's --

5 BRIAN SHERON: But we don't have very
6 reliable sources of information, Pat. So I, I
7 really don't like to -- you know, don't quote me on
8 that or, or run with it. It's just stuff that we've
9 heard.

10 PAT CASTLEMAN: Right. I understand.
11 It's, it's just, obviously, there's a fog of
12 information here and I, I'm just, just throwing that
13 out there to see what it is. And the bottom line is
14 we still don't know, nor do we know about the design
15 accelerations and actual accelerations and so forth
16 from the earthquake though.

17 BRIAN SHERON: We, I'm not sure we know
18 about the accelerations. I mean, we were told it
19 was, it was actually a magnitude 8 earthquake --

20 MALE PARTICIPANT: Nine.

21 BRIAN SHERON: I'm sorry -- it was a
22 nine. I'm sorry. The design basis was eight --

23 PAT CASTLEMAN: Oh, okay.

24 BRIAN SHERON: -- for the site. But
25 that doesn't necessarily, I mean when you're talking

1 seismic design, that doesn't really mean anything
2 because it's a matter of where is the, where is the
3 epicenter located and what's in between the
4 epicenter and basement.

5 PAT CASTLEMAN: Okay, exactly.

6 BRIAN SHERON: And that determines the
7 ground motion.

8 PAT CASTLEMAN: Right. Right. And of
9 course, you know, as I understand it, we, we license
10 to accelerations, you know, versus, you know, the
11 Richter scale, which is really an energy measurement
12 more than anything, as I understand it.

13 BRIAN SHERON: Right.

14 PAT CASTLEMAN: Right.

15 Okay. A couple of questions. On page 2
16 of the situation report that we got, it talks about
17 evacuation of US citizens from Sendai and it says
18 that additional busses have been suspended because
19 of a lack of demand. Do we have any idea if that is
20 because US citizens, all US citizens are gone or
21 that the US citizens that remain have decided that
22 they're going to go with the Japan protective action
23 recommendations?

24 BRIAN SHERON: What, what I heard on my
25 conference call 

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1 that a majority of the US citizens in Japan were not
2 choosing to evacuate -- I'm sorry -- were not
3 choosing to, to leave. They said they, they did see
4 an increase in the number of military families that
5 did want to leave, but they were using terms like
6 there were empty seats on airplanes flying out and
7 everything. So, you know, that's as much as I know.

8 PAT CASTLEMAN: And that's just
9 anecdotal, and I understand that. I just wanted to
10 kind of get an idea of that.

11 What are we doing in terms of the relief
12 team? I understand Dan Dorman is en route. Do we
13 have -- how are we doing on the rest of the relief
14 team?

15 BRIAN SHERON: There is a second,
16 there's a second team. I think, a couple were going
17 to go out on Monday and the rest of the team, I
18 think, was supposed to leave -- what? Thursday? It
19 was Wednesday, Thursday, they were going to fly over
20 and relieve the team that's over there.

21 PAT CASTLEMAN: Okay. Great. Thanks.

22 The last thing is, when we had finished
23 up our morning conference call, we were breaking up
24 because there was going to be a conference call at
25 0745 with INPO and NR and the industry and so forth,

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1 and that was regarding establishment of a consortium
2 or something.

3 MARTY VIRGILIO: No, no. Let me make
4 sure we get the facts straight. This is Marty.

5 PAT CASTLEMAN: Yeah, Marty.

6 MARTY VIRGILIO: The 7:45 phone call was
7 internal to NRC to see who was going to be
8 participating in that meeting.

9 PAT CASTLEMAN: Oh, okay. That, that
10 differs from what we were told.

11 MARTY VIRGILIO: Yeah. It was, that was
12 my, I hosted the call with the office directors just
13 to make sure we were aligned on the purpose of the
14 meeting and who was going to be participating from
15 the NRC.

16 PAT CASTLEMAN: Okay. So, then, am I
17 correct in surmising that the 1400 meeting this
18 afternoon was, that, that the 7:45 call with the
19 preparation for this afternoon's meeting?

20 MARTY VIRGILIO: Yeah. Yeah. That's
21 the way we set it up.

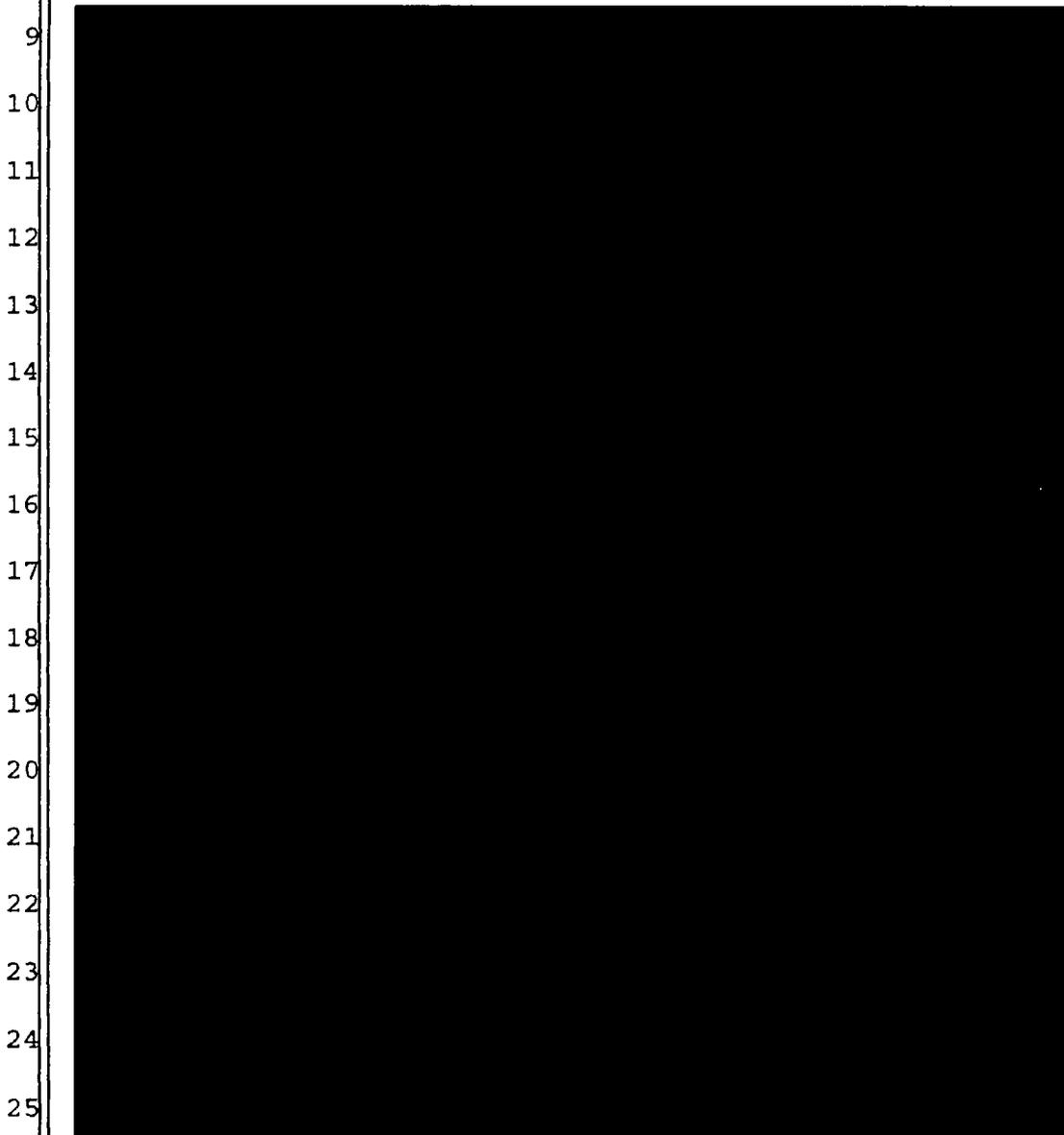
22 PAT CASTLEMAN: Okay.

23 MARTY VIRGILIO: Like I had worked the
24 night with [REDACTED] and others to set up the
25 1400 meeting. We never had a phone call with the

1 industry participants. What we did is we worked
 2 primarily through [REDACTED] Pete Lyons, and
 3 Naval Reactors representatives who were here in the
 4 Ops Center with me through the night. And then we,
 5 at 0725, briefed up the office directors, and then
 6 had the meeting at two o'clock this afternoon.

6

7 PAT CASTLEMAN: Okay. Got it. That's
 8 good.



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1 critical, and that's still an ongoing effort to
2 confirm that through our site team and the
3 Department of State, the ambassador. So that's,
4 that's how I got started. Now, I was the method two
5 o'clock meeting.

6 Brian, were you there?

7 BRIAN SHERON: Yeah. I was there. And
8 the, during the discussions, what the industry
9 pointed out -- and this was, Westinghouse, [REDACTED]
10 [REDACTED] (phon) and I can't remember the guy's name
11 from General Electric; he was a VP for GE -- but
12 both of them said [REDACTED]

13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED] so I think they're looking that if they are
20 going to be effective in their interactions with,
21 with Tepco, that they would probably do it through
22 their Japanese owners.

23 PAT CASTLEMAN: That, that makes sense.

24 That comports with all the interactions I've had
25 with the Japanese over the years.

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1 Anyway, that's all the questions I had.

2 Thank you very much.

3 BRIAN SHERON: Any other any others?

4 LARRY CAMPER: Yeah, Larry Camper.

5 Trish, are you there?

6 TRISH HOLAHAN: Yes, I am.

7 LARRY CAMPER: Did -- where do we stand
8 on NARAC running the analysis on the worst-case
9 scenario that you and I were discussing as we were,
10 you know, trading off duties? Did anything positive
11 come out of that or did we feel that we needed to
12 talk to Admiral Crowell (phon)?

13 DON COOL: Larry, this is Don Cool. Let
14 me answer that. We've gotten an alignment with
15 NARAC on the parameters of source term. We had
16 earlier this evening, we sought an alignment with
17 NNSA and the NIT (inaudible) start that.

18 In a conference call that was happening
19 just before this call happened, there was a
20 discussion with OSTG and DOE, including Steve Aoki
21 and others, sorting out some priorities for NARAC in
22 terms if they run Japanese local out to Tokyo to
23 support some of those predictions. That one will be
24 done, and then they will do some melt-core
25 trans-Atlantic run.

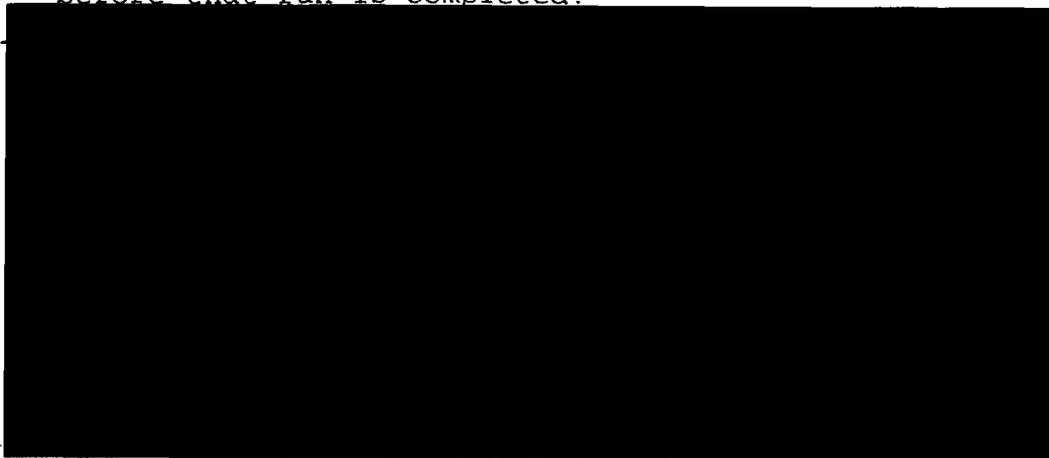
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1 So it's on the schedule, but it isn't
2 the first thing that NARAC is going to do. So it
3 may well be, even as far as Monday morning, I
4 suppose, because of the time devoted to each run,
5 before that run is completed.



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12 LARRY CAMPER: Okay. So we're
13 comfortable with that?

14 DON COOL: You have to run the assets
15 that you have. Given my responsibility is to
16 provide advice there in Japan and 50 miles, if they
17 want to run the Tokyo run to help me understand and
18 confirm the ones that I'm doing with the meteorology
19 shifts over the next 24 hours, that would be more
20 important to me than the melt core worst-case
21 transported across the Atlantic.

22 LARRY CAMPER: Okay. One other
23 question. Don, the direction of the wind -- when I
24 last saw that, it was due south on Sunday mid-day to
25 late day on Sunday. Is that -- you mentioned

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1 earlier south, southwest. Has that changed since I
2 saw that two hours ago, or is this still due south?

3 DON COOL: You know, that's, that
4 long-term prediction is the prediction that we have,
5 that the current predictions were coming from the
6 west, will gradually shift until they are on shore
7 continuing to swing around. Sunday night through
8 Monday, they'll be variable between south and then I
9 think they will gradually be moving back offshore
10 again.

11 LARRY CAMPER: Yeah. I think it's back
12 out to sea again. Yeah. Okay.

13 DON COOL: Eventually, but we have at
14 least 24 hours where we will have wind directions
15 that will take any releases over land instead of out
16 to sea.

17 LARRY CAMPER: All right. Okay. Thank
18 you.

19 MALE PARTICIPANT: The plant conditions,
20 they've changed a bit. Has that modified our source
21 term at all?

22 DON COOL: There are -- well, when we
23 say "source term", I think we need to be careful.
24 In terms of the ones that I'm asking my team to do,
25 they are still runs which would anticipate things

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1 getting much worse and a major release. They are
2 not, we are not attempting to model the actual doses
3 on the ground that have been surveyed because we
4 want to base our protective actions on what could
5 happen still rather than what we're seeing at this
6 moment.

7 So, no, I have not changed the source
8 terms that we're running.

9 MALE PARTICIPANT: Okay. So, in other
10 words, it's sort of worst-case.

11 DON COOL: It's a realistically bad
12 case. We're using a variety of, we are now using
13 the phrase "worst-case" or "the melt core source
14 term", which our folks in Research Office developed,
15 which includes contributions from Units 1, 2, and 3,
16 and spent fuels 1, 2, 3, 4.

17 TRISH HOLAHAN: Yes.

18 MALE PARTICIPANT: And that, that source
19 term is not what I'm using. We're continuing to use
20 the source term that was the basic underlying
21 assumption for, that's what supported our press
22 releases and protective action recommendations two
23 or three days ago now.

24 MALE PARTICIPANT: And that particular
25 press release is based on the spent fuel pool in

1 Unit 4 as 100-percent gone. Right?

2 DON COOL: That's correct.

3 MALE PARTICIPANT: Okay. So we stand by
4 that. Right?

5 DON COOL: As something about which to
6 beg the question of protective actions. We can hold
7 a poll around the room of what people think is
8 actual conditions in that pool, and I think you'll
9 get -- you know, there's six people -- there's seven
10 answers.

11 (Laughter.)

12 BRIAN SHERON: Well, let's face it.
13 Having -- I think, you know, as Bill Borchardt that
14 this morning, I mean this afternoon at two o'clock
15 when he was talking about the status, is he said
16 that, you know, it's the fog of war. In other
17 words, you're, you're taking information from
18 various sources. A lot of it's conflicting. You're
19 trying piece^oit together and put together the best
20 scenario you can. But you recognize that there
21 could be errors. It could be, it could be
22 different, you know, but it's the best that we have.

23 MALE PARTICIPANT: All right. I
24 understand. I understand. Thank you.

25 LARRY CAMPER: Hey, Brian. Larry again.

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1 In the final analysis, then, going back to the
2 Bechtel train situation, is the train going to
3 Japan? And did AID come up with the money at \$2.4
4 million?

5 BRIAN SHERON: AID confirm that the --
6 no -- I said AID confirmed that DOD had agreed to
7 pick up the tab to ship one train over there for
8 \$2.5 million, I think it was, roughly.

9 LARRY CAMPER: So is that en route, or
10 do you know?

11 BRIAN SHERON: No. It's still on the
12 ground in Australia. We understand the plane is
13 partially loaded. AID had to get a hold of the
14 appropriate place. I can't remember the acronym
15 they used --

16 TRISH HOLAHAN: PACOM.

17 BRIAN SHERON: -- PACOM. That's the
18 guys who approve the money --

19 TRISH HOLAHAN: In Japan.

20 BRIAN SHERON: Huh?

21 TRISH HOLAHAN: In Japan.

22 BRIAN SHERON: In, in, in Japan.

23 So once they got that approval, my
24 understanding is that they were going to call over
25 to Australia and authorize the flight.

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1 LARRY CAMPER: Was the Embassy in Japan
2 on that call that US --

3 TRISH HOLAHAN: Yes.

4 LARRY CAMPER: Huh?

5 TRISH HOLAHAN: Okay.

6 TRISH HOLAHAN: And the embassy in
7 Australia was on the call as well.

8 LARRY CAMPER: Okay. So is there a
9 sense that all that diplomatic concern has been put
10 to rest?

11 TRISH HOLAHAN: Yes.

12 BRIAN SHERON: So far.

13 LARRY CAMPER: Okay. Thank you.

14 BRIAN SHERON: Any other comments?

15 MALE PARTICIPANT: Just one. I
16 appreciate what you're doing.

17 BRIAN SHERON: Okay.

18 MALE PARTICIPANT: Yeah, I'll second
19 that. Thank you very much for that very informative
20 briefing.

21 BRIAN SHERON: Okay. Great. Take care.
22 Have a good evening.

23

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1 (CONFERENCE CALL INITIATED.)

2 04:34:46/05:10:25

3 BRIAN SHERON: Chuck?

4 CHUCK CASTO: Yeah. Is this Brian?

5 BRIAN SHERON: Yeah, this is Brian.

6 CHUCK CASTO: how are you doing, Brian?

7 BRIAN SHERON: Good. What's up?

8 CHUCK CASTO: I guess I need to talk, I
9 probably need to talk to you guys and Marty. Do you
10 know if Marty's available?

11 BRIAN SHERON: Marty's here --

12 MARTY VIRGILIO: Marty took the day off.

13 BRIAN SHERON: Yeah, Marty took the day
14 off.

15 CHUCK CASTO: Yeah, you know how that
16 guy is. He's always out riding that motorcycle.

17 MARTY VIRGILIO: I actually got it out
18 of the garage today but I didn't get very far.

19 CHUCK CASTO: Here's today's crisis,
20 Marty and, and Brian. When I came in, finally --
21 you know, I don't get in until late -- when I came
22 in this morning, the, the ambassador and his staff
23 had arranged a meeting with Tepco, and I, I
24 understand the sensitivity there. So here, I went
25 to a Tepco meeting with them. And I talked about --

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1 they asked, you know, give us an update on your,
2 where we're at with salt and radiation.

3 Well, well, honestly, I didn't have a
4 wallet in my back pocket on that. I said, well, you
5 asked me about it yesterday. There's a, there's a
6 lot of information, a lot of analysis, and I believe
7 we're working on that. And I said, you know, with
8 your permission, it would be much more elegant for
9 us to provide that information to NISA so NISA can
10 get the information to you. Well, he, he, he didn't
11 warm up to that idea. He, they basically said, we
12 need this stuff immediately. We need this help
13 immediately on, on the salt and the radiation.

14 So my proposal in talking with the
15 embassy is that we meet with NISA Tepco to go over
16 any information that we have.

17 MARTY VIRGILIO: That sounds like a good
18 plan.

19 BRIAN SHERON: Okay.

20 CHUCK CASTO: The embassy says, you
21 know, they have to do that with other agencies all
22 the time, but we would not meet with Tepco alone in
23 any event. So every, every meeting we have would be
24 with NISA and Tepco.

25 He -- honestly, NISA -- I don't how to

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1 put this diplomatically -- but, you know, that's a
2 challenge. And he's, he's very anxious. In fact,
3 they had already called back over here before I got
4 over here and called John Monninger before I got
5 back. It's a 15-minute car ride, and they'd already
6 called over here. And I'm -- Marty, I'm talking,

7 
8 JOHN MONNINGER: Yeah, they called me
9 and they wanted to know how quickly we could get
10 down there to discuss details.

11 MARTY VIRGILIO: And do you have the
12 background papers that we have here?

13 BRIAN SHERON: What, what are the
14 specific issues on salt and radiation, Chuck?

15 CHUCK CASTO: The specific issues are,
16 on salt, you know, as you know better than I do,
17 Brian, they're, they're running three evaporators.
18 And, and we have some analyses here that I saw this
19 morning -- I think they were European or UK analyses
20 -- that show they're heavily concentrating salt
21 within the reactor.

22 BRIAN SHERON: Right.

23 CHUCK CASTO: On the fuel and in the
24 bottom head and everywhere, it's attacking heat
25 transfer rate. They seem to be very concerned about

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1 that. And, and he's told me twice now this is
2 urgent.

3 BRIAN SHERON: Do they have --

4 CHUCK CASTO: [REDACTED] [REDACTED] [REDACTED] [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 BRIAN SHERON: We can get you some
8 articles that we have here on salt. We've got one
9 here from Naval Reactors. The, the punch line in
10 there is that they should probably switch over to
11 freshwater sources, if they have it, as soon as
12 possible.

13 CHUCK CASTO: Yeah, and we talked about
14 that, and I said you you=re your desalinization
15 plant or reverse osmosis. And the Navy here is
16 telling me -- I don't know; the Navy guys can
17 explain more about that stuff than I know about it
18 -- but we talked about that, and they're prepared to
19 do that.

20 The challenges, as you well know, are
21 how to do it. I mean, they can make freshwater, but
22 the challenge is, how do you get freshwater into the
23 reactors, you know, with a 100-R field or 450-R
24 field.

25 So the other part two is he's desperate

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1 to figure out how to lower the radiation levels.
2 And, you know, we talked about it. I said, when you
3 fill the spent fuel pools, you're going to help it
4 little bit, you know, but what you need, what you
5 need to think about -- and this is me talking. I
6 have no idea what I'm talking about -- but you know,
7 you need keyholes into, keyholes into, to crucial
8 components, you know, that you lead-line a walkway,
9 you know, don't try to, don't try to lower all the
10 radiation levels across the site at once, you know,
11 to eat the elephant a piece of the time.

12 BRIAN SHERON: Yeah.

13 CHUCK CASTO: Get to critical components
14 and get -- you know, if you have to cut a new
15 connection into the -- he wants to -- you know, this

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22 [REDACTED] We've got to test
23 everything. We're going to have to replace pumps,
24 we're going to have to figure out motors. You know,
25 we're going to have to test everything one component

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1 of the time to restore a plant that's had a major
2 explosion in it.

3 So, you know, my suggestion to him was,
4 you know, look, that, that is the dose and -- you
5 know, I said, look, why don't you pursue multiple
6 options? Get the desalinization plant, drill some
7 keyholes in the plant -- you know, that's,
8 conceptually, I'm talking about -- and, you know,
9 get a connection, a freshwater connection to those
10 reactors, cut a freshwater connection to it if they
11 have to. And there goes the robot.

12 I suggested to him, you know, we can
13 provide lots of robotics equipment to help put the
14 keyholes in, the gopher holes --

15 BRIAN SHERON: Yeah.

16 CHUCK CASTO: -- you know, and, and get
17 it to the critical components through the gopher
18 holes and get some freshwater in these reactors to
19 get rid of that salt water and stop the
20 accumulation.

21 That's the, that's the -- you know, and
22 I, I very much appreciate and respect and honor all
23 the stuff about, you know, we've got to stay our
24 Lane. I understand that. There's a couple of
25 challenges with that. 

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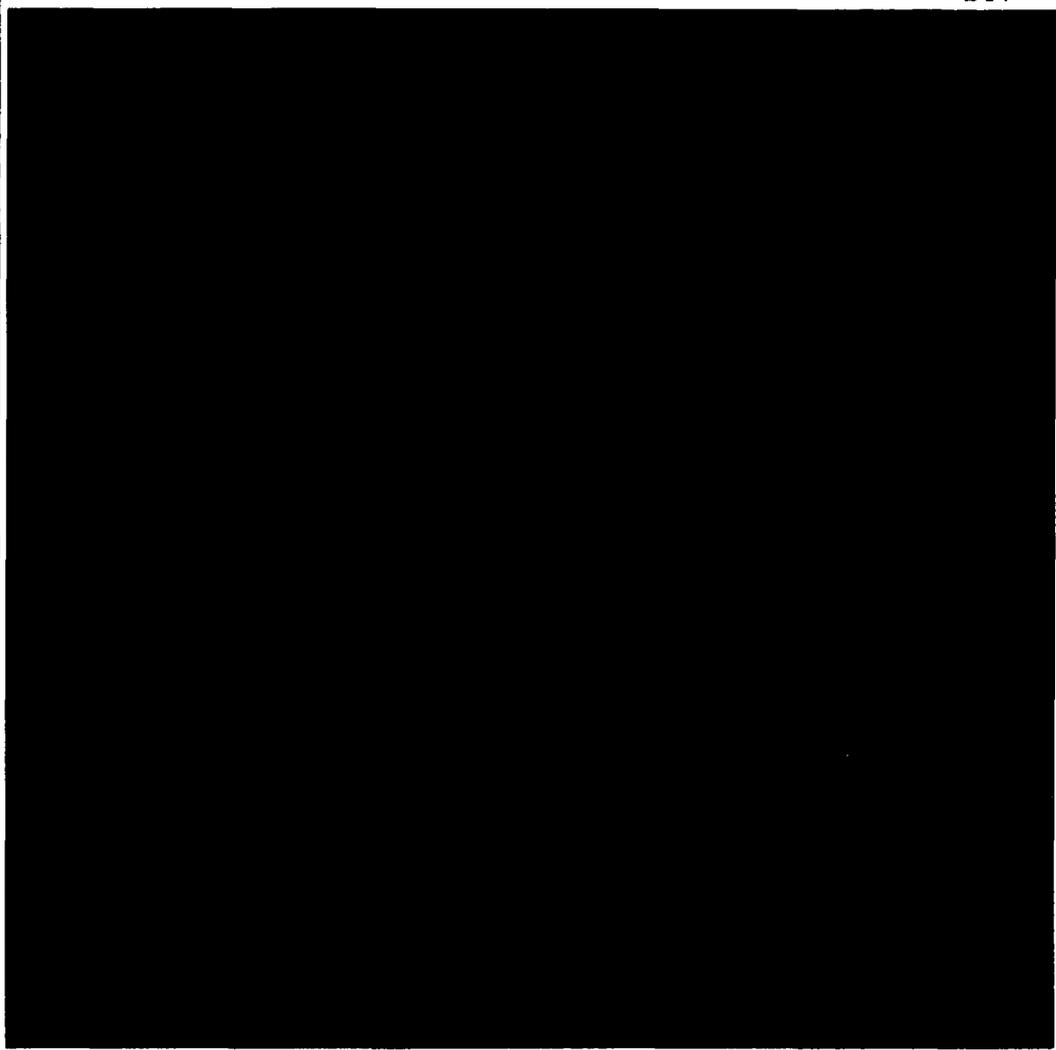
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MARTY VIRGILIO: Yeah. That makes good sense.

CHUCK CASTO: And we can get information to Tepco, you know, and everybody's all on one page, NISA, Tepco, and us.

MARTY VIRGILIO: All right.

CHUCK CASTO: And with regard to the industry, Marty, you know, I made no offers about the industry because I was obviously on part of the phone call last night. And it seemed to me that the

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1 [REDACTED] X
2 [REDACTED]
3 [REDACTED] 6
4 said, well, you know, we work with GE and Hitachi.
5 And I said, well, I think, you know, the industry
6 would be very well -- because they said last night,
7 hey, we'll work behind GE and Hitachi; you know,
8 we're happy to do that -- [REDACTED] X
9 [REDACTED] 6

10 So and he, the [REDACTED] you
11 know, I work with GE and Hitachi. And I said, well,
12 the American nuclear industry is, I'm sure if you
13 reach out to them, we would, you know, be happy to
14 support GE and Hitachi in all that work.

15 He also said, with regard to -- he was
16 not aware of the robots and the helicopters. You
17 know, we had shared that with the staff. We had
18 shared that last night with the staff. He was not
19 aware of that, and he said he would love to have all
20 that equipment.

21 MARTY VIRGILIO: On that note, you know,
22 I'm reading trade press that says that INTRA, a
23 joint venture of EDF, Areva, and CDA, has sent 130
24 tons of robots and specialized equipment to help
25 Japan cope with the aftermath of the nuclear power

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1 plant accident.

2 CHUCK CASTO: Where the hell is that
3 stuff at?

4 MARTY VIRGILIO: That's the question. I
5 mean, you've got other mature countries sending
6 equipment in there, and, you know --

7 CHUCK CASTO: Well, everybody wants to
8 say they've done it, Marty, but it could be sitting
9 in a warehouse here in Japan --

10 MARTY VIRGILIO: Right.

11 CHUCK CASTO: -- and they could
12 advertise that they've done it.

13 You know, now we've had a lot of
14 companies call here and a lot of powerful companies
15 go through the embassy, you know, very powerful
16 officials at the embassy, and come down to us and
17 say these people -- you know, and we've been pushing
18 all that stuff to the ops center and saying, you
19 know, we're not there yet. But we are there with
20 robots.

21 And, and he accepted them with a caveat.

22 He said, look, I'll take, you know, I want this
23 stuff. There's two caveats. I want this stuff.
24 Okay, I wasn't aware of it, but I want it. However,
25 we don't -- I'm paraphrasing here. I'm sorry, Marty

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1 -- but he basically said, don't blame us if we don't
2 use it all.

3 And I said, hey, that's absolutely
4 acceptable. All right? It's fine. I mean, you
5 know, we understand that. [REDACTED]

6 [REDACTED] 5
7 [REDACTED]
8 [REDACTED]
9 You know, I said, look, what we'll do --
10 maybe the Hilo (phon); maybe the Hilo we could do --
11 but I said, our intent is to get the equipment in
12 country. We will take it somewhere safe, we will
13 train your people on how to use it and -- I lost the
14 point on that in my mind -- we'll train your people
15 how to use it, and FDF can use it.

16 Now also, he was talking about
17 transportation and we said we could get everything
18 to Yukoda. In talking with FDF last night, FDF said
19 we will transport anything necessary from Yakoda to
20 the site. So, you know, and right now, [REDACTED]

21 [REDACTED] here in the Embassy 6
22 -- you know, basically, I told some the embassy
23 people it's out of our lane; you know, once we,
24 we're going to work at the other end of the arrow
25 and devise how we make the gopher holes and all that

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1 stuff and tell DOD what equipment we need and what
2 priority, you know, but we're not working the
3 logistics stuff.

4 We're, we learned our lesson on that
5 damn pumping system. Okay? We're not doing that.
6 It's out of our Lane. Were not going to do it.

7 MARTY VIRGILIO: Right.

8 CHUCK CASTO: And they were great with
9 that. I mean, DOD, you know, they said, hey, that
10 ain't a problem. You tell us what you need and what
11 priority, and we will get it to you.

12 They certainly were interested in the
13 unmanned helicopter, so, you know, if we have a
14 trigger to pull on that, we, we probably could --
15 that thing's in New England or something, Lockheed
16 Martin -- we probably need to push that thing this
17 way.

18 But that's the outcome of the meeting.
19 And I would offer to you, Marty, that while not
20 exactly the way Bill said last night, Bill Borchardt
21 said in his meeting last night, I think it's an
22 acceptable compromise, in my view, to work with
23 Tepco and NISA. And, you know, yeah, and you know,
24 that's the way the ambassador, you know, would, I
25 think would prefer it --

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1 MARTY VIRGILIO: So we --

2 CHUCK CASTO: -- just talking to his
3 senior staff. And they're going in to back-brief
4 him now.

5 MARTY VIRGILIO: So we should work
6 through Japanese countries for coordinating aid from
7 the US industry, and we should work with both Tepco
8 and NISA?

9 CHUCK CASTO: Yeah, and MOD. In their
10 command center, there's GE. Hitachi's in there.
11 And NISA's in there. And Tepco's in there.

12 BRIAN SHERON: It's a massive command
13 center, 250-people staffed ops center.

14 CHUCK CASTO: But they, they're -- I
15 tried to go back to, you know, sitting behind NISA
16 and both, you know, [REDACTED]

17 [REDACTED]
18 MALE PARTICIPANT: (off mic).

19 CHUCK CASTO: No, no. The other guy.
20 Keith -- the main contact guy you were just on the
21 phone with.

22 Anyhow --

23 MALE PARTICIPANT: (Off mic).

24 CHUCK CASTO: [REDACTED] [REDACTED] [REDACTED] [REDACTED]

25 [REDACTED]

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6

1 But , you know, [REDACTED]
2 after we walked out of the room and I said, look,
3 you know, we, it's better if we work government to
4 government with NISA, and, and, and he just said,
5 look, we need this stuff now. We need help now on
6 the salt and the, and the radiation.

7 MARTY VIRGILIO: Okay.

8 CHUCK CASTO: So I would --

9 MARTY VIRGILIO: Do they have a decent
10 map of that site of the radiation fields so that
11 they know what they're facing as they go in to try
12 to restore equipment?

13 JOHN MONNINGER: They provided us, they
14 provided us with a site map. But they, the rad
15 fields are in huge areas, so it would not
16 necessarily help personnel access. You know,
17 probably a zone like 30 meters by 30 meters, they're
18 saying, is 20 R. You know they, they -- you really
19 want much more fine-detailed mapping.

20 Now they may have that information, but
21 they have not shared that information with us.

22 FEMALE PARTICIPANT: Is that --

23 CHUCK CASTO: Here's, here's what I
24 would suggest, Marty, and humbly. If, if we set up,
25 if we set up two, a bridge in the ops center called

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1 the Salt Bridge or something -- I don't know what
2 the hell want to -- you know, the Salt Bridge and,
3 and Radiation Bridge or, or, you know, something
4 like that. And we get with them and call back to
5 you guys and get -- we just want to be the broker of
6 this, you know, and be the liaison and get the salt
7 people working directly with NISA and Tepco.

8 JOHN MONNINGER: You know, we had a good
9 model of that the other night. We facilitated a
10 call with the Reactor Safety Team, Bechtel, et
11 cetera, and us and Tepco.

12 So my proposal would be, you know, they
13 would like to meet us shortly this afternoon. I
14 would call back and have the Reactor Safety Team on
15 the line there, and we would also have the regulator
16 there, NISA.

17 CHUCK CASTO: And what I would suggest
18 is we identify targets that -- you know, I don't
19 know; I may be back into solving their problem. I
20 don't know. But, so you've got to slap me when this
21 happens, Marty.

22 But, you know, what I would do is work
23 with that group and identify targets like what we do
24 in force-on-force, and just hand that off to a
25 radiation team, you know, that says these are target

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1 that we need to get to. Here's the dose. You know,
2 tell us what, tell us what you can do for us in
3 terms of the dose. But that may be way too much
4 involvement.

5 MARTY VIRGILIO: Yeah. Yeah.

6 CHUCK CASTO: But I mean we could --
7 here's what I can do is suggest they do that.

8 MARTY VIRGILIO: Yeah. Yeah.

9 CHUCK CASTO: Not us do it, but they do
10 it. And, you know, we walk them through the first
11 one, you know, pilot. You know, here's the first
12 target set. Okay, let's work with NISA and Tepco to
13 do the first target set and then show them the
14 techniques and let them go on their own.

15 I'm just brainstorming, Marty, really.
16 That's just coming to my head.

17 MARTY VIRGILIO: No, no, no. That
18 sounds pretty good. And I also like the idea of a
19 phone call where we could, back here, get the
20 Reactor Safety Team to, you know, get whoever
21 external experts we would want on a bridge line here
22 --

23 CHUCK CASTO: Right. And we might, that
24 may be where we bring in the nuclear industry.

25 MARTY VIRGILIO: Right. Right.

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1 CHUCK CASTO: Into that bridge, and not
2 even, you know, not even mess with the nuclear
3 industry coming about here.

4 JOHN MONNINGER: Yeah, I mean, that, on
5 that call the other night, we had Bechtel, we had
6 INPO, we had GE, all of them working together.

7 MARTY VIRGILIO: Yeah, I think that
8 might be the model of how we want to attack this
9 salt issue.

10 BRIAN SHERON: Yeah. So they, they're
11 proposing to leave within the hour.

12 CHUCK CASTO: They're, they're -- I
13 mean, here's the squeeze we get in, Marty, is, you
14 know, they desperately want this, and they want it
15 now. They've told -- this is the second time in 24
16 hours [REDACTED]

17 I went in just -- you know, the embassy
18 takes me in there and I said, hey, let me just give
19 you an update. You know, we're working on it and
20 it's a tough question. I felt pretty unarmed going
21 in there, honestly.

22 MARTY VIRGILIO: Yeah. I bet.

23 CHUCK CASTO: But I got through it. It
24 was, you know, my good looks.

25 (Laughter.)

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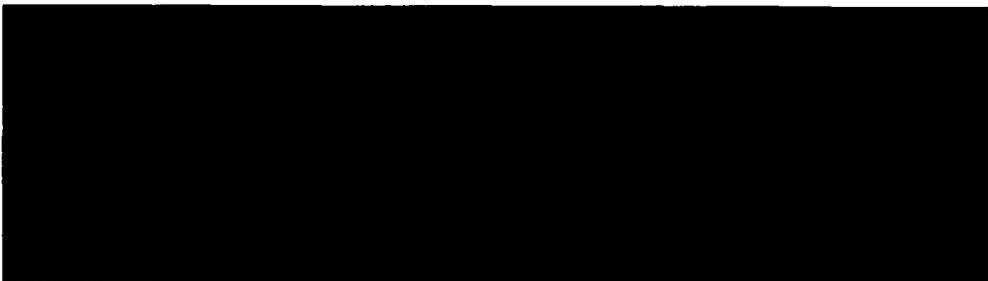
1 CHUCK CASTO: But, no, but, and I think
2 it was -- no, I think he was very satisfied and very
3  is what I would
4 characterize it as. 6

5 MARTY VIRGILIO: Well, let's, let's --
6 and I know they want and they want it now, but let's
7 let the Reactor Safety Team figure out how soon they
8 could get a team assembled and ready for a phone
9 call.

10 CHUCK CASTO: And here's what they owe
11 us and I want John to work with, is I missed an
12 opportunity at this meeting. It came across my
13 mind, but I missed the opportunity, you know, with
14 all the ceremony, that they need to provide us with
15 the data. We can't help them unless they provide us
16 with the data.

17 MARTY VIRGILIO: That's, well, yeah.

18 CHUCK CASTO: 

19 

20 5

21

22

23 MARTY VIRGILIO: For example, how many
24 gallons of salt water have they pumped in there?

25 TRISH HOLAHAN: Yeah.

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1 CHUCK CASTO: Yeah.

2 MARTY VIRGILIO: Give us an estimate.

3 And I realize they probably don't have it metered,
4 but they --

5 CHUCK CASTO: But also, on mitigating
6 the event, Marty, we don't, you know, we don't
7 really know -- well, we really don't know the
8 condition of the reactors. You know, we don't know
9 what containment pressure is, what reactor pressure
10 is what, what, whether those things are even full.
11 We don't even know if those vessels are full.

12 So, nevertheless, all that's moot. The
13 bottom line is get water. They need to get fresh
14 water into that reactor. And what I told him was
15 it's going to take forever to power up -- I didn't
16 say it that way -- but diplomatically, I said, you
17 know, it's a long process to get that, to use the
18 salt equipment. So let's, you know, get a temporary
19 system, you know, run in there through a gopher
20 hole, cut a hole in the RCS or whatever you have to
21 do to find a connection that you can feed fresh
22 water into and start pumping freshwater through the
23 gopher holes.

24 DAVE SKEEN: Chuck, this is Dave Skeen.

25 Do they have a source of fresh water?

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1 CHUCK CASTO: No. That's why the
2 urgency, Dave, is that they know that this is, salt
3 is building up. They're making an evaporator. And
4 they'll have to build or bring in a desalinization
5 system. You know, the Navy or whatever's going to
6 have to happen, is going to have to bring in, either
7 build or bring in or both, you know, bring in a
8 temporary while you build a new one, but you, you --
9 you know, so there's a lot of work to be done. But
10 we don't need to do it. We just have to share
11 insights with them.

12 MARTY VIRGILIO: Well, what --

13 BRIAN SHERON: No, go ahead.

14 MARTY VIRGILIO: Well, why don't you
15 tell them to start working on that fresh water
16 source and we'll start working on the calculations
17 and information that they're looking for.

18 CHUCK CASTO: Yeah. They've got power
19 on site, so we have power, or, they can power
20 whatever they want. And they need to start working
21 on a desalinization system. We'll share that within
22 the hour here when John goes over to talk to Tepco.

23 MARTY VIRGILIO: And I think -- and it's
24 sort of off topic -- but I would like to understand,
25 for them to explain to you, how they're coordinating

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1 the aid that they get from various countries because
2 it seems to me, I'm reading that the French are
3 sending robots and they're asking us for robots.

4 CHUCK CASTO: All right.

5 And you write that down. Ask them, tell
6 them that --

7 MARTY VIRGILIO: I mean, you can tell
8 them that the American press is reporting that
9 INTRA, I-N-T-R-A, has sent 130 tons of robots and
10 specialized equipment.

11 JOHN MONNINGER: Well, let me push back
12 on you a little bit. I bet you that robotic
13 equipment has been designed and manufactured in
14 Japan.

15 (Laughter.)

16 JOHN MONNINGER: That's one of the
17 frustrations. That's one of the biggest
18 frustrations from the military guys. What the hell
19 are we going halfway around the world to pick up
20 pumps that are made in this country and are sitting
21 in Tokyo.

22 MARTY VIRGILIO: Well --

23 JOHN MONNINGER: All right. I'm done.

24 CHUCK CASTO: Yeah, this, the
25 bureaucracy in the system here is difficult.

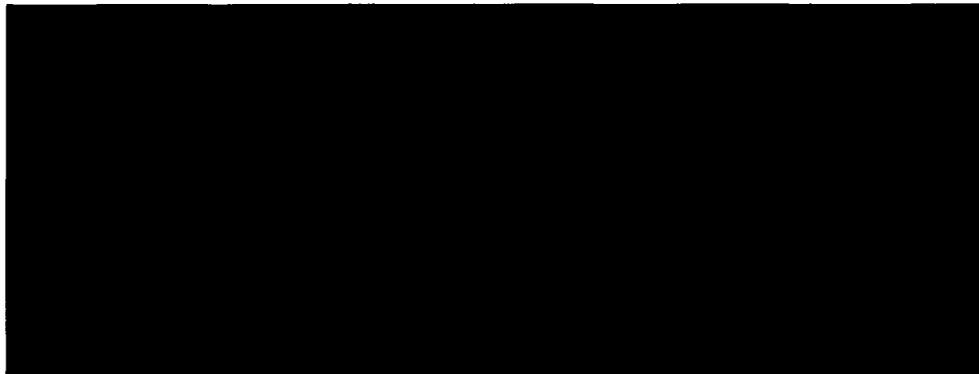
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1 MARTY VIRGILIO: Yeah.



7 MARTY VIRGILIO: Yeah.

8 CHUCK CASTO: So it's sort of, you know,
9 don't rely on the installed equipment. You know,
10 build a temporary one and put it in there. You
11 know, you've got to try -- and I shared with him,
12 you know, he's got to think about multiple options
13 on how to do this. Move forward on trying to get
14 the, the installed plant equipment working. You
15 know, the ones that the most, the highest
16 probability. Meanwhile, you're working on a
17 temporary system.

18 Now, I've talked enough, Marty, so let
19 me know what direction you have. And the idea here
20 is that we would help them do the first set, you
21 know, the first gopher hole and the target set, and
22 then we'd walk away.

23 MARTY VIRGILIO: All right. Let me ask
24 Dave, Reactor Safety Team -- not necessarily your
25 watch -- but should we be arranging this telephone

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1 call on the --

2 DAVE SKEEN: Yeah, but we've got very
3 good sources. GE and INPO, both of their ops
4 centers, we've talked to usually once or twice per
5 shift anyway.

6 MARTY VIRGILIO: Yeah.

7 Okay, so they can take the lead, the
8 Reactor Safety Team can take the lead to arrange the
9 phone call on salt accumulation and its impact.

10 From our perspective, I think we need a
11 more detailed site map from them with the radiation
12 fields.

13 TRISH HOLAHAN: Yeah, now --

14 MARTY VIRGILIO: And equipment
15 locations. So if we're going to help them pilot the
16 first target set assessment, we're going to need,
17 you know, the information on radiation fields and
18 equipment locations, I would think.

19 CHUCK CASTO: Yes.

20 TRISH HOLAHAN: Yeah.

21 CHUCK CASTO: What their priority is on
22 equipment locations, they show it to us, and we'll
23 show it to them in a target set fashion, in a pilot
24 mode, how to do the first one or two.

25 TRISH HOLAHAN: Okay, now, Chuck the --

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1 this is Trish Holahan -- the dose information you
2 got from them, is that the map that Jim Trapp
3 emailed last night?

4 JOHN MONNINGER: Probably. It's real
5 (inaudible).

6 TRISH HOLAHAN: With numbers basically
7 on the outside of the facility.

8 CHUCK CASTO: Yeah. Yeah. Nobody's
9 been in to do any kind of survey.

10 TRISH HOLAHAN: Okay. Okay.

11 CHUCK CASTO: Yeah. You know, the first
12 thing you've got to do is dig a golfer holding it in
13 the building.

14 TRISH HOLAHAN: Yeah.

15 BRIAN SHERON: Hey, Chuck, this is
16 Brian. Where are they taking -- how did they get
17 salt water in the reactor in the first place? Where
18 did they take the suction from?

19 CHUCK CASTO: You know, that's a good
20 question. And the other -- I, I see where you're
21 going, Dr. Sheron -- put the desalinization plant
22 between the sea and the building.

23 BRIAN SHERON: Wherever they're taking
24 the salt water come from, if they can access it,
25 they should be able to, somehow be able to get fresh

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1 water in there, even if they have to bring in trucks
2 or something.

3 CHUCK CASTO: Right, and put it in the
4 line that's going in from the sea water system.

5 BRIAN SHERON: Right. It's going in
6 somewhere.

7 CHUCK CASTO: Yeah.

8 BRIAN SHERON: So they ought to be able
9 to try and access that and get the water in.

10 CHUCK CASTO: But they -- yeah, that's
11 right. You're right, Brian. And we'll work with
12 them on that. And then also, you know, for other
13 reasons, they still need the target sets and the
14 gopher hole --

15 BRIAN SHERON: Yeah.

16 TRISH HOLAHAN: Yeah.

17 CHUCK CASTO: -- to get the, you know,
18 operate plant equipment and long-term recovery.

19 BRIAN SHERON: Yeah.

20 CHUCK CASTO: So it's, do everything.
21 You know, get working on changing that suction
22 supply from seawater to, to freshwater, get gopher
23 holes and target sets, and go from there.

24 Yeah, I see you're right, I think you're
25 right, Brian. Why build a whole fresh water system

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1 when you've got an ocean?

2 BRIAN SHERON: Just, the question is,
3 where are they taking it from and can they access
4 the suction point and tape into it?

5 CHUCK CASTO: Okay. Well, we'll check
6 on that.

7 MARTY VIRGILIO: Now let me ask Dave,
8 could we go back to GE and say, for this plant
9 design, identify the target sets? What groups of
10 equipment would you want to have powered up in order
11 to, you know --

12 DAVE SKEEN: Yeah, that's a good idea.

13 (Simultaneous conversation.)

14 MARTY VIRGILIO: -- what system they
15 have?

16 DAVE SKEEN: Sure.

17 CHUCK CASTO: And you've got -- I forget
18 what -- but I think it's Unit 2 that you have to
19 prioritize. That's the first thing we have to agree
20 on with them. You know, all of them we prioritize
21 on salt, but we've got to prioritize, you know, what
22 unit -- I think they need to recover Unit 2 first.

23 BRIAN SHERON: That's probably the least
24 infrastructure damage, so the most successful one.

25 CHUCK CASTO: And they have a reactor

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1 building full of hydrogen that's being vented by the
2 hole --

3 BRIAN SHERON: Right.

4 CHUCK CASTO: -- that one hole, that,
5 then they need more holes.

6 BRIAN SHERON: Right.

7 CHUCK CASTO: Or they're going to blow
8 that building up.

9 BRIAN SHERON: Right.

10 CHUCK CASTO: So they, you know, that's
11 another priority that they had that's just too far
12 down the road. They wanted to open up another hole
13 in Unit 2's reactor building because they're fearful
14 that the hole that's there that's venting the
15 hydrogen isn't big enough. And they had some
16 absolutely amazing ideas about how to open that
17 hole, to open that hole more. But that's the other,
18 that's the other thing that they need, is to open
19 the Unit 2 reactor building's roof or hole.

20 You know, I would say, my, my own
21 thought is that if I had to do this, I would go to
22 the opposite side of the building where the spent
23 fuel pool is and I would take a helicopter and I
24 would drop something right through the roof, you
25 know, and just cave in the roof. But that's just

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1 my, my thoughts.



2
3
4
5
6
7
8 So I, you know, if we have any thoughts
9 on how to open up a hole on, a bigger hole on Unit
10 2, that's somewhat of a priority. I mean, they're
11 worried about it because, honestly, they don't want
12 to see that on CNN if that building goes.

13 TRISH HOLAHAN: Chuck?

14 CHUCK CASTO: Yes?

15 TRISH HOLAHAN: This is Trish again.
16 The other day, we were asked to have the
17 force-on-force guys consider ways to remove the roof
18 or a portion of the roof non-explosively. Is that
19 still a concern?

20 CHUCK CASTO: Yeah. That's what I'm
21 talking about. You know, you either -- you know,
22 somehow -- you don't have a remove the whole roof.
23 You have to -- you know, they just don't know if
24 that hole that's there is enough to vent all the
25 hydrogen because I think that hole is a floor lower

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1 than the spent fuel pool.

2 TRISH HOLAHAN: Okay.

3 CHUCK CASTO: So, you know, they're
4 uncertain whether that hole is big enough to vent
5 all the hydrogen. You know, there's really no way
6 of knowing.

7 TRISH HOLAHAN: So is there a, a small
8 hole there now?

9 CHUCK CASTO: Yes. The explosions in
10 the other buildings punched, put a hole in one of
11 the panels on the reactor building.

12 TRISH HOLAHAN: Okay, in the side of the
13 wall. Okay.

14 CHUCK CASTO: Yeah, in the side. So
15 their concern is, you know, how do we make a bigger
16 hole?

17 BRIAN SHERON: If you make a spark,
18 you're going to blow it --

19 TRISH HOLAHAN: Yeah, and we were
20 thinking of having a helicopter with a grappling
21 hook or putting a, putting a Bambi bucket on the
22 roof, which has 5,000 gallons of water and --

23 CHUCK CASTO: Yeah. That's what I was
24 thinking is collapse it.

25 TRISH HOLAHAN: Yeah.

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1 DAVE SKEEN: And we was talking about
2 that before the last time I was with Chip, I think,
3 Chuck. And that's what we came up with, is you
4 could take a Bambi bucket, drop it from the right
5 height, and that ought to go right through the
6 corrugated metal of that roof.

7 CHUCK CASTO: That, that roof is not
8 just corrugated metal. Believe it or not -- I have
9 never seen this before -- but that roof is concrete.

10 BRIAN SHERON: Yeah. They said three
11 inches or more of concrete, the roof.

12 TRISH HOLAHAN: Oh, okay.

13 DAVE SKEEN: Oh. That's a whole
14 different animal.

15 BRIAN SHERON: If you make a, if you
16 make a spark, you're liable to ignite that stuff
17 anyway.

18 CHUCK CASTO: Yeah. That's what we were
19 saying about the saw, you know, the, the helicopter
20 in the saw. Yeah, that was . . .

21 Well, the other thing is you can fly the
22 helicopter and, and the bucket of water and go
23 through the side of the building and just, you know,
24 swing it into the side of the building.

25 JOHN MONNINGER: But, but there's

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1 hydrogen right off light-off. Even a little sparkle
2 take it off. So a destructive force, you know, even
3 if it's not an explosive could easily spark stuff up
4 through all the blasting, but --

5 CHUCK CASTO: And again, their concern
6 is not only the damage it does to the building but
7 the damage it does, you know, politically if, if
8 that building goes up.

9 MALE PARTICIPANT: (Off mic).

10 CHUCK CASTO: Yeah, we can do it, and
11 another big explosion wouldn't be good.

12 So we, I've talked a lot.

13 MARTY VIRGILIO: I, I, I see we have
14 three actions and you have two.

15 Our first action is to arrange the
16 conference call on the sale accumulation. Our
17 second action is to start the development of a pilot
18 on the target set approach, based on the equipment
19 that they need to restore normalcy and the radiation
20 fields that they're experiencing in the plant. And
21 the third item we have is to brainstorm a little bit
22 here about options for increasing the size of the
23 hole in secondary containment.

24 Your actions, the first action for you,
25 is to suggest that they substitute fresh water in

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1 their suction supply. And your, your second action
2 is to ask them how they're coordinating support from
3 other countries; for example, the French supplied
4 robots.

5 Does that sound like a deal?

6 JOHN MONNINGER: That sounds like a
7 deal. Can I throw one variation maybe?

8 MARTY VIRGILIO: Go ahead, John.

9 JOHN MONNINGER: Yeah. I understand
10 there will be a conference call with an expanded
11 group with the notion they want a shorter-term
12 meeting. We would, I propose we would include, go
13 forward with the shorter-term meeting but include
14 whoever's there from the Reactor Safety Team and
15 then we could have second, third meetings, et cetera

16 So we, we could get the landscape from
17 the engineers, the techies maybe, at this first
18 conference call with whoever's there in the Reactor
19 Safety Team.

20 CHUCK CASTO: [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 MARTY VIRGILIO: Well, if you've got
24 operations centers manned in other locations, it
25 shouldn't be that much of a chore to tie in other

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1 people on the call.

2 DAVE SKEEN: When do you want to have
3 this call then, John?

4 JOHN MONNINGER: They, they have, they
5 -- when the guy called me up, I did not confirm to
6 him, but he wants me to show up in potentially 35
7 minutes.

8 DAVE SKEEN: Okay. Well, I'll get on
9 the line with GE and INPO at least, and we'll stand
10 by for a call and, and we can present what the
11 information is and, and brainstorm then.

12 JOHN MONNINGER: Yeah, but I said
13 potentially 35 minutes. They haven't fully
14 confirmed.

15 DAVE SKEEN: When do we get to the
16 second shift?

17 MALE PARTICIPANT: Half an hour.

18 MARTY VIRGILIO: Yeah, buy us some time,
19 and that way, we'll be able to better coordinate
20 with, with our partners and get the next shift in
21 here.

22 JOHN MONNINGER: Okay.

23 MARTY VIRGILIO: Yeah, so if you can buy
24 us half an hour and a half, that would be best.

25 JOHN MONNINGER: So, one o'clock our

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1 time out here.

2 MARTY VIRGILIO: Yeah, I think one
3 o'clock your time would be a good time.

4 Don't you think?

5 DAVE SKEEN: Yeah. Let's try that.

6 MARTY VIRGILIO: Yeah.

7 CHUCK CASTO: Yeah, I'm sorry. Let me
8 back up. Did you say there was an action item for
9 you all to look at the roof?

10 MARTY VIRGILIO: Yeah.

11 JOHN MONNINGER: The Unit 2 roof?

12 MARTY VIRGILIO: Yeah, we'll brainstorm,
13 we'll get our folks back here brainstorming about
14 how to, non-, or non-energetically widen that hole.

15 JOHN MONNINGER: Yes, sir.

16 MARTY VIRGILIO: Were created new whole.

17 CHUCK CASTO: Well, thank you. Thank
18 you, folks.

19 DAVE SKEEN: And, Chuck, one more thing
20 before you go. We do have our Naval Reactors folks
21 here with us.

22 CHUCK CASTO: Yeah.

23 DAVE SKEEN: And they did some work,
24 they had managed to do some work on this issue of
25 the seawater in the BWR plant, and we've got like a

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1 two-pager that we can send you on the information
2 they provided on the effects and some of the
3 different concerns that we need to think about.

4 JOHN MONNINGER: Yeah, that's, that's
5 great. Yeah, we have, like, I think, a big report
6 or something, a PowerPoint from the UK or something.

7 But let me, let me -- I'm glad you
8 brought that up because let me make it clear, we
9 really need you guys to be the brain waves and give
10 recommendations. You know, here, we can't, you
11 know, really read stuff and come up with thoughts
12 and recommendations and that kind of stuff. We, we
13 want to be the, you know, the grease there.

14 DAVE SKEEN: Okay.

15 JOHN MONNINER: So we need, you know,
16 the hard recommendations from you all if that makes
17 sense.

18 DAVE SKEEN: I understand. Okay.

19 JOHN MONNINGER: Hey, send it to Kirk
20 Fogey (phon) also so we can print it out.

21 DAVE SKEEN: Kirk Fogey?

22 JOHN MONNINGER: Yeah. He's got Citrix
23 fax so we can print it about.

24 CHUCK CASTO: You can send it, ask them
25 to send it to me too. I have to --

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1 JOHN MONNINGER: okay. Send it to Kirk.

2 DAVE SKEEN: Okay. Will do..

3 JOHN MONNINGER: We're good?

4 DAVE SKEEN: We're good.

5 JOHN MONNINGER: All right, folks. Talk
6 to you again soon.

7 (END OF SERIES.)

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