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1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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6 SUNDAY

7 MARCH 20, 2011

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1
2 (CONFERENCE CALL INITIATED.)

3 (CONFERENCE CALL INITIATED.)

4 00:00:05/00:04:04

5 BRIAN McDERMOTT: Jim, this is Brian
6 McDermott.

7 JIM WIGGINS: Yeah, Brian.

8 BRIAN McDERMOTT: Two things I wanted to
9 pass on to you this morning. One was from that
10 meeting yesterday. The individual that was there from
11 the Joint Command staff, I provided him with some
12 contact information, so I would just ask, if you see
13 the InfoSec guys today, just to have them check on the
14 [REDACTED] if anything came in towards me.

15 I gave them a card and had some subsequent
16 emails with them just to see if we're getting any
17 additional information on the [REDACTED]

18 JIM WIGGINS: Brian, you gave them your
19 log-on --

20 BRIAN McDERMOTT: JWICS. I gave them my
21 JWICS email -- InfoSec can check that.

22 JIM WIGGINS: Okay. Who was it that you
23 gave it to?

24 BRIAN McDERMOTT: The person I gave it to
25 --

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1 JIM WIGGINS: What's the organization?

2 BRIAN McDERMOTT: The National Military
3 Command Center.

4 JIM WIGGINS: Okay. All right, so we have
5 to, we'll check to see who's in from --

6 BRIAN McDERMOTT: Yeah, they were supposed
7 to have somebody stop at least at some point today, so
8 you might get some information back out of that. We
9 just took the opportunity with that Cook that was
10 there -- his last name.

11 JIM WIGGINS: Good.

12 BRIAN McDERMOTT: The other thing that
13 we're yesterday that --

14 JIM WIGGINS: Give me a second. Hold on.
15 Okay?

16 Okay, go ahead, Brian.

17 BRIAN McDERMOTT: Okay. Yeah, the other
18 thing at that meeting with the folks from industry is
19 they are during that call, and they're tabulating
20 data. And I'm not sure that our Reactor Safety Team
21 is getting that from INPO but it would be something to
22 check.

23 Similar, it sounds similar to what the,
24 we're getting from IAEA, but INPO cobbling together
25 from WANO and other sources. So that's another set of

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1 collected information that we, we might benefit from.

2 JIM WIGGINS: I got something from Marty,
3 but I can't tell, I can't read it, so I can't tell.
4 It looks like tabular form, like an Excel spreadsheet
5 is what it is. I can't, can't pull it up very well.

6 BRIAN McDERMOTT: Okay. Yeah, that's what
7 they kind of indicated. And I know our team's been
8 talking to INPO but perhaps not exchanging that
9 information.

10 JIM WIGGINS: All right, so maybe I should
11 send this out to --

12 FEMALE PARTICIPANT: RSD01.

13 JIM WIGGINS: RSD01 at --

14 FEMALE PARTICIPANT: Yeah, we, we have the
15 daily status log with INPO but we haven't gotten I
16 back. We'll let them do a sanity check on the plant
17 status. They're supposed to call in here at 10.

18 MALE PARTICIPANT: Ten o'clock.

19 FEMALE PARTICIPANT: Ten o'clock.

20 JIM WIGGINS: Who's going to be there?

21 FEMALE PARTICIPANT: It'll be INPO, it'll
22 be (inaudible).

23 Will DOE be on that call?

24 MALE PARTICIPANT: I have to check to make
25 sure that --

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1 JIM WIGGINS: More importantly, though,
2 what are we supposed to accomplish?

3 FEMALE PARTICIPANT: A status from INPO
4 and any new information with that they have.

5 JIM WIGGINS: Okay. What's the status --

6 MALE PARTICIPANT: (Inaudible) two o'clock
7 call (inaudible).

8 (Off-mic conversation).

9 JIM WIGGINS: All right.

10 All right, Brian, what else do you have?
11 Brian?

12 BRIAN McDERMOTT: That was it, Jim. I was
13 just looking to kind of keep cognizant. I'm off
14 today, so --

15 JIM WIGGINS: Well, then take off.

16 BRIAN McDERMOTT: I will.

17 JIM WIGGINS: You're supposed to be off.
18 Be off. Okay. It's going a little easier.

19 BRIAN McDERMOTT: Okay. I'm going to
20 disconnect.

21 JIM WIGGINS: Okay.

22 BRIAN McDERMOTT: Goodbye.

23

24

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(CONFERENCE CALL INITIATED.)

00:04:11/00:22:16

JIM WIGGINS: I sent both of you, Josh, one-pager on the status. It's kind of a digest of things. Did you, were you able to get that?

JOSH BASKIN: Great. Thank you. I'm doing my email now.

JIM WIGGINS: Okay, well --

JOSH BASKIN: Jim Wiggins. Look at that.

JIM WIGGINS: Yeah.

JOSH BASKIN: March 20th. Great. Thank you.

JIM WIGGINS: Yeah, that's, that's what I was to talk off of. It's better if you have this in front of you. You can do what you want with it.

JOSH BASKIN: Great. Jim, I heard a quick question from you about what the INPO 10 o'clock call was.

JIM WIGGINS: Yeah.

JOSH BASKIN: So the kind of the way Bill left it with them yesterday at the meeting was, you know, just, they were sort of getting geared up to see what activities they might do to assist and so I think this is supposed to be, you know, touching base with them to see the results of their conversations after

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1 the meeting yesterday.

2 JIM WIGGINS: Oh, on the post-meeting
3 meeting that they had?

4 JOSH BASKIN: Yeah. The idea was to set
5 up daily calls to start coordinating and seeing kind
6 of what they were going to be doing.

7 JIM WIGGINS: Okay.

8 JOSH BASKIN: So, they didn't really
9 commit anything at the meeting yesterday, but they
10 were, they stayed after to talk amongst themselves to
11 see what they were going to be doing.

12 JIM WIGGINS: All right. Yeah. Good. It
13 would really be helpful if they, an
14 industry-to-industry connection would take up some of
15 these implementation issues.

16 JOSH BASKIN: Yeah. I think so.

17 JIM WIGGINS: This, this Bechtel thing --
18 there's another question rattling around that, if
19 Tepco wants to enlarge the hole Unit 2 secondary
20 containment.

21 JOSH BASKIN: Um-hmm.

22 JIM WIGGINS: And they're looking for a
23 way to do that without risking, and kind of minimize
24 the risk of another explosion.

25 JOSH BASKIN: Right.

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1 JIM WIGGINS: They're looking for a way to
2 do it without a lot of arcs and sparks. Yeah, so
3 that's something probably industry could help with.

4 JOSH BASKIN: Yeah.

5 JIM WIGGINS: So they got some sort of a
6 waterjet cutting device that they know they've used
7 somewhere. Some of the stuff may be that they use to
8 cut through containments and stuff when they do these
9 generator replacements.

10 JOSH BASKIN: Right.

11 JIM WIGGINS: That might be helpful.

12 JOSH BASKIN: Yeah.

13 JIM WIGGINS: Hold on a second.

14 Are we calling?

15 MALE PARTICIPANT: They're going to give
16 him one more minute, then they're going to call and
17 get him on the phone.

18 JOSH BASKIN: Yeah, I think I told him we
19 would call him.

20 JIM WIGGINS: All right.

21 Tell them to call him.

22 (Off-mic conversation.)

23 (Chairman Jaczko joins the conference.)

24 CHAIRMAN JACZKO: Good morning.

25 JIM WIGGINS: Good morning, Chairman.

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1 CHAIRMAN JACZKO: How are you?

2 JIM WIGGINS: Fine. This is Jim Wiggins.
3 We've got the day watch in here.

4 We sent you electronically a status. It's
5 sort of a digest of stuff that's in the larger report.
6 We figured that might be more useful.

7 CHAIRMAN JACZKO: Yeah. That was great.

8 JIM WIGGINS: And we did include some
9 information that we're getting, that we got from --
10 the source is an NEI source and they seem to be, you
11 know, have a connection in country also.

12 CHAIRMAN JACZKO: Okay. Good.

13 JIM WIGGINS: But, but we, you know, we
14 labeled it based on NEI information, so you, you'd
15 know what the source was.

16 CHAIRMAN JACZKO: Yep.

17 JIM WIGGINS: Okay. It looks like 1, 2,
18 and 3 reactors are pretty stable, as for the reactors
19 themselves. Five and six, you knew what the story was
20 before.

21 BRIAN McDERMOTT: Yeah.

22 JIM WIGGINS: And there's not much on the
23 reactor side at 4.

24 Three and 4, they're still looking at to
25 dump water into the reactor building. It's, Tepco

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1 seems to be more optimistic about the success of Unit
2 3 than we would be.

3 CHAIRMAN JACZKO: Okay.

4 JIM WIGGINS: You know, based on just some
5 visuals you see on the news reporting, it looks like
6 what might be getting in there is nothing more than a
7 mist. You know, they're, they're using this kind of a
8 water cannon shot, you know, and by the time it goes
9 up over the top and then back down again, it's sort of
10 misty.

11 CHAIRMAN JACZKO: Uh-huh.

12 JIM WIGGINS: But they're, they're, Tepco
13 is, they think they're actually getting water, they
14 may even be getting it into the pool.

15 CHAIRMAN JACZKO: How are we, how would we
16 describe our information flow at this point? Is it
17 better or worse than it's been?

18 JIM WIGGINS: I'm not saying, it's not
19 saying much.

20 CHAIRMAN JACZKO: Okay, so it's still
21 overall limited?

22 JIM WIGGINS: The absolute value is, I
23 would rate it as -- I guess I would -- to be truthful,
24 it would be 4.

25 CHAIRMAN JACZKO: Okay.

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1 JIM WIGGINS: Okay, and to be gracious, it
2 would be barely acceptable.

3 CHAIRMAN JACZKO: Okay.

4 JIM WIGGINS: But it's, it's, you know,
5 you get a lot of, we're getting conflicting
6 information. We're answering questions that people
7 who are getting off of, you know, the Japanese TV
8 broadcast that they're watching. And then we, we get,
9 spend time trying to refute or affirm that kind of
10 stuff.

11 CHAIRMAN JACZKO: Yeah.

12 JIM WIGGINS: So it, it's not, you know,
13 it's nowhere near what it looks like when we do the
14 drills and exercises here --

15 CHAIRMAN JACZKO: Yeah.

16 JIM WIGGINS: -- and actual events that
17 we've done on this side.

18 But, you know, they're -- I guess you've
19 got understand, too, it's a fairly dramatic event and
20 they just don't have a lot of instrumentation, so --

21 BRIAN McDERMOTT: Right.

22 JIM WIGGINS: So a lot of it is human, you
23 know?

24 They've got generators running in Units 5
25 and 6 like they've had before.

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1 CHAIRMAN JACZKO: Okay.

2 JIM WIGGINS: But they also got a power
3 line in here. They got an RHR pump going in Unit 5.

4 CHAIRMAN JACZKO: Okay.

5 JIM WIGGINS: And that's progress.

6 They're working, they're installing a,
7 electric cables in Units 1 and 2 today; probably 3 and
8 4 perhaps by Monday. And we'll see what success
9 though have there. You know, when you start looking
10 at some of these significantly damaged units, you
11 don't know quite what utility that would be.

12 CHAIRMAN JACZKO: Yeah.

13 JIM WIGGINS: They might be able to get
14 power to it but not be able to get anything to work.
15 But, you know, if they can get stuff to work, that's
16 certainly on the good side.

17 Any update on dose rates seems to suggests
18 that things are, as we heard some others, you know,
19 consistent with other information we have, they seem
20 to be dropping in the immediate vicinity of the units.

21 They're still at the tens of R per hour
22 range though. It's not, it's not trivial.

23 CHAIRMAN JACZKO: At, at this point, what
24 is your best understanding of the source of the high
25 dose rates?

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1 JIM WIGGINS: You mean pool versus
2 reactor?

3 CHAIRMAN JACZKO: Well, just in general.
4 Is it -- essentially, we think -- I mean, essentially,
5 direct --

6 JIM WIGGINS: It's shine.

7 MALE PARTICIPANT: It's shine.

8 CHAIRMAN JACZKO: It's shine?

9 JIM WIGGINS: it's shine dose, not, not a
10 -- yeah, it's shine. I don't think it's like that an
11 airborne thing. It's the deposition or the source is
12 coming from where they are, the pools.

13 CHAIRMAN JACZKO: Okay.

14 JIM WIGGINS: Okay. Speaking of
15 deposition and things like that, a couple, news.

16 We got, we reached agreement with NARAC on
17 what -- let me also say the president's source term,
18 the one that, you know, you had agreed to --

19 CHAIRMAN JACZKO: Yes.

20 JIM WIGGINS: And it's, it's been a bit
21 challenging to get runs from NARAC, but we understand
22 the running those now.

23 CHAIRMAN JACZKO: Okay.

24 JIM WIGGINS: And, you know, it took some
25 cajoling with them. They had some issues with how the

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1 source term was, was stated.

2 CHAIRMAN JACZKO: Okay.

3 JIM WIGGINS: But, again, I've seen
4 (inaudible). They've agreed to run it.

5 CHAIRMAN JACZKO: Okay. Good. And remind
6 me again what that is at this point. There's been so
7 many back-and-forths on this.

8 JIM WIGGINS: Yeah. I, you know, I still
9 won't let anybody use the word "worst case" in the
10 room here --

11 CHAIRMAN JACZKO: Yeah.

12 JIM WIGGINS: -- because there's about
13 five worst cases.

14 CHAIRMAN JACZKO: Right.

15 JIM WIGGINS: What, what's the, the
16 president's case?

17 MALE PARTICIPANT: It's, it's bounding.
18 It includes the, the fuel in the three reactors, the
19 fuel in four spent fuel pools. It does not include
20 the common spent fuel pool around Unit 4 nor reactors
21 5 and 6 or any spent fuel pools there. And it's
22 assumed, a release based over a four- to five-day day
23 period --

24 CHAIRMAN JACZKO: Okay.

25 MALE PARTICIPANT: -- for each of the

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1 units and has a little bit of, of, I'll save realism
2 on what we know is in each of the pools and based on
3 melt core runs.

4 CHAIRMAN JACZKO: Okay, and it's based on
5 melt core. Okay. Good.

6 JIM WIGGINS: It's a percent of the total.

7 MALE PARTICIPANT: A percent of the total.

8 JIM WIGGINS: Okay.

9 CHAIRMAN JACZKO: Okay. Good.

10 JIM WIGGINS: And the, the saga of the
11 Bechtel equipment continues.

12 CHAIRMAN JACZKO: Okay.

13 JIM WIGGINS: The information is it's
14 still on the plane in Perth, but I guess last night
15 the funding got resolved. You know, you were informed
16 yesterday that AID with having a problem with a, with
17 the cost, that the cost went up to \$2-1/2 per train.

18 CHAIRMAN JACZKO: Yeah.

19 JIM WIGGINS: We put a, we, we persuaded
20 AID to run a conference call last night at six, and it
21 had AID and State Department, Naval Reactors and is --
22 that's what it should have had.

23 CHAIRMAN JACZKO: Okay.

24 JIM WIGGINS: And we talked through what,
25 the merits of having this one train, at least,

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1 transported to Japan. The information I got on
2 turnover was that one today, that there was a funding
3 source identified. DOD stepped up to pay that rate.
4 But right now, I guess there's some normal logistical
5 issues, rolling it out, getting it in the airplane,
6 getting a crew, that kind of thing.

7 CHAIRMAN JACZKO: Okay.

8 JIM WIGGINS: But Bechtel indicated that
9 they would expect it to arrive in Yakota within 13
10 hours.

11 CHAIRMAN JACZKO: Okay.

12 JIM WIGGINS: And the Reactor Safety Team,
13 our guys in Japan, Tepco and others, had some calls
14 early this morning talking about further logistics --
15 how to get it from Yakota to the facility; once you
16 get it there, any special requirements that you have
17 to consider. You know, Tepco was concerned that you
18 might not just be able to drop the pumps on the
19 ground. You might have to stabilize things a bit.

20 CHAIRMAN JACZKO: Yeah.

21 JIM WIGGINS: And so we're into the
22 details of implementation.

23 CHAIRMAN JACZKO: Okay.

24 JIM WIGGINS: This is an opportunity for
25 the industry types to, to contribute on this, too,

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1 because they know more about how to implement
2 something like this.

3 CHAIRMAN JACZKO: Yeah.

4 JIM WIGGINS: But the, on the other side,
5 on the more, also on the positive side of the ledger,
6 if you recall -- I don't know if Josh mentioned this
7 to you -- but the shipment came complete with two
8 techs.

9 CHAIRMAN JACZKO: Okay. Good.

10 JIM WIGGINS: There's two technicians that
11 are being shipped. And I think that's from the
12 vendor, not Bechtel.

13 CHAIRMAN JACZKO: Oh, good.

14 JIM WIGGINS: And the technicians are
15 there to provide assistance and instruction in how to,
16 how to put the thing together and use it.

17 CHAIRMAN JACZKO: Good.

18 JIM WIGGINS: But I, I sort of heard
19 they're not too willing to go up to the site to do it.
20 So, you know, they'll help but, you know, it's a
21 question of where they're going to help.

22 CHAIRMAN JACZKO: Okay.

23 JIM WIGGINS: I believe it'll all get
24 worked out through the day.

25 CHAIRMAN JACZKO: Okay.

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1 JIM WIGGINS: And there's [REDACTED]

2 CHAIRMAN JACZKO: Okay.

3 JIM WIGGINS: I think that summarizes it.
4 We tried to give you just a bulleted list to sort of
5 focus things.

6 CHAIRMAN JACZKO: Okay. That's good.
7 Well, I appreciate it. And, yeah, I think that's it
8 for now, so thanks.

9 And, you know, there was one other
10 question on top of my mind, but I can't remember it
11 now.

12 JIM WIGGINS: Well, we can say that, you
13 know, the PAR still looks good.

14 CHAIRMAN JACZKO: Yeah, okay.

15 JIM WIGGINS: That's always an important
16 thing.

17 CHAIRMAN JACZKO: Okay.

18 JIM WIGGINS: The PAR looks good, and
19 we'll let you know what these NARAC, what the
20 president's run results in, in California, Hawaii, and
21 those places. We'll make sure you know that.

22 CHAIRMAN JACZKO: Okay. Good.

23 JIM WIGGINS: And we'll then have to
24 figure out how -- [REDACTED]

25 [REDACTED]

5

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1 CHAIRMAN JACZKO: Okay.

2 JIM WIGGINS: They're the ones who asked
3 for it, and you know, we'll see how that works.

4 CHAIRMAN JACZKO: Okay. Great. Thanks,
5 everybody. Keep up the good work.

6 JIM WIGGINS: Hey, you know where we are
7 if you've got any other questions.

8 CHAIRMAN JACZKO: Okay. Good. Perfect.

9 JIM WIGGINS: All right.

10 Josh, are you okay? Josh, anything from
11 you?

12 JOSH BASKIN: Yeah, I'll stay on and ask
13 one question.

14 JIM WIGGINS: Yeah, go ahead.

15 JOSH BASKIN: What, what's the timing for
16 the getting the results of the runs back?

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

5

25 JOSH BASKIN: So today or maybe tomorrow

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1 after they look at it.

2 JIM WIGGINS: Ten hours, 12 hours.

3 MALE PARTICIPANT: Right.

4 JIM WIGGINS: Yeah. It may get it here
5 tomorrow.

6 MALE PARTICIPANT: Right. If they start
7 running it right away, they'll probably have --

8 JIM WIGGINS: Start today, get it
9 tomorrow.

10 MALE PARTICIPANT: -- it, they'll probably
11 have some discussion about what comes of the first
12 one, and tweaking it, and use that this week.

13 JOSH BASKIN: Great. Okay, and then I
14 lost the bubble a little bit on the Bechtel stuff.
15 But did we -- so we had another call last night. Were
16 we the ones pushing to get it there, or we, did our
17 position change on the necessity of getting it there?

18 Or did we just kind of support finding a solution to
19 get it there?

20 JIM WIGGINS: I wasn't on the call. I
21 tell you what I gave (inaudible) as we were leaving.

22 JOSH BASKIN: Okay.

23 JIM WIGGINS: But I told --

24 And if you guys were around, if you heard
25 anything about and know any more, you can chime in.

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1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
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5 [REDACTED]
6 [REDACTED]
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9 [REDACTED]
10 [REDACTED]
11 [REDACTED]

12 JOSH BASKIN: Exactly.

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

21 JOSH BASKIN: Right.

22 JIM WIGGINS: And the Naval Reactors
23 people brought forward a good point, too, about, you
24 know, even if it's not technically needed now, it
25 provides a defense in depth measure.

1 JOSH BASKIN: Right.

2 JIM WIGGINS: And, and I think we also
3 realized that the fact that we were moving forward on
4 this over the last several days, we must have provided
5 some impetus to the Japanese side to get moving too.

6 JOSH BASKIN: Right.

7 JIM WIGGINS: So, so the intent was to
8 just let all the parties talk together and share
9 their, their interest and see what came out of it.

10 JOSH BASKIN: Great.

11 JIM WIGGINS: And it just, what I
12 understood is DOD stepped up and said, we'll, you
13 know, we'll come up with the \$2-1/2 mill.

14 JOSH BASKIN: Okay, so the compromise was
15 to send one train?

16 JIM WIGGINS: Yeah.

17 JOSH BASKIN: Okay.

18 JIM WIGGINS: It's one train at a time.
19 So we got the deal for one, and if we need the next
20 ones, we'll have to go through the same problems then.

21 JOSH BASKIN: Okay, so we still, we still
22 think it's a third option and we didn't, we weren't
23 saying we absolutely technically have to have it on
24 the ground now?

25 JIM WIGGINS: That's, that's the current

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1 view.

2 JOSH BASKIN: But the discussion came
3 around to DOD stepping up and getting one there.

4 JIM WIGGINS: Yeah.

5 JOSH BASKIN: Okay. Great.

6 JIM WIGGINS: It's, it's, I think it's
7 really, it is satisfying the defense in depth.

8 JOSH BASKIN: Yes. Absolutely. And do
9 you know if [REDACTED] from USAID was involved in
10 that conversation?

11 JIM WIGGINS: I don't know who was on the
12 call. She was going to be invited was my information.

13 JOSH BASKIN: Okay. But it was DOD that
14 came up with the funding?

15 JIM WIGGINS: That's my guess. I was told
16 that too.

17 JOSH BASKIN: Okay. Great.

18 FEMALE PARTICIPANT: Jim, they're ready to
19 pay it.

20 JIM WIGGINS: Josh, I've just been told
21 that the DOD volunteered the whole \$9.6 million.

22 JOSH BASKIN: Whoa.

23 JIM WIGGINS: I think it's still safe to
24 do it one at the time.

25 JOSH BASKIN: Okay, but that's what the

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1 plan is, one at a time?

2 JIM WIGGINS: Yeah.

3 JOSH BASKIN: Okay.

4 JIM WIGGINS: But we've got one in a
5 plane.

6 JOSH BASKIN: Right.

7 JIM WIGGINS: That's, that's, there'll be
8 a hump up to get the next one. You know, you've got
9 to identify a plane and a crew and all that stuff.

10 JOSH BASKIN: Okay.

11 JIM WIGGINS: All right.

12 JOSH BASKIN: Okay. Great. All right.
13 Thank you very much. I appreciate it.

14 JIM WIGGINS: See you.

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(CONFERENCE CALL INITIATED.)

00:22:27/00:49:12

JIM WIGGINS: Okay, I believe Bill's just going to listen in.

BILL BORCHARDT: This is Bill Borchardt. Jim, are you on?

JIM WIGGINS: Yes, Bill we're here.

BILL BORCHARDT: Okay. I was just checking to see if we were, if I was still on line, we're still setting up for the 10 o'clock call.

JIM WIGGINS: Yes. We're just waiting for them to call in I guess.

BILL BORCHARDT: Okay. Thank you.

(Standby 00:23:14 to 00:25:07.)

JIM WIGGINS: Good morning. This is Jim Wiggins. I'm the Executive Team director this morning at the NRC's ops center. We have a number of members of the Emergency Response Team here plus one individual, Tom --

TOM HAVOSA (phon): Havosa.

JIM WIGGINS: -- Havosa from Naval Reactors is here on the call.

Could you identify yourselves?

(Standby.)

JIM WIGGINS: Has anyone just joined us?

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1 BILL BORCHARDT: I'm still on here, Jim,
2 but I think I'm just on the regular ET bridge.

3 JIM WIGGINS: Yeah, they should have
4 joined the bridges though.

5 BILL BORCHARDT: Okay.

6 JIM WIGGINS: And we're going over to the
7 ops center to find where the rest of the people are.

8 (Standby.)

9 BOB COCHRAN: Keith, this is Bob Cochran.
10 Can you call my cell real quickly after this call?

11 KEITH: Sure. Yes.

12 (Standby.)

13 [REDACTED] The industry support team's
14 on the call here, Jim.

15 JIM WIGGINS: Okay, and who is this
16 speaking?

17 [REDACTED] Oh, Bill, great. Good
18 morning. I guess we'll go around to make sure
19 everybody knows who's all on the line.

20 Like I said, Jim Wiggins. I'm in the ops
21 center. I'm the Executive Team director this morning,
22 and we have the, the rest of the NRC team leads and
23 also Tom Havosa from Naval Reactors here in the ops
24 center.

25 Could you go around and say who else is

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1 around?

2 [REDACTED] are you, is it you from industry, or
3 are there others?

4 [REDACTED] [REDACTED] We have the -- on this
5 call, it's me and I have the full team here listening
6 in on this call.

7 JIM WIGGINS: All right. Great. And then
8 we have Pete Lyons. Right?

9 PETE LYONS: Correct. Lyons is on.

10 JIM WIGGINS: Okay. Any other individuals
11 want to identify themselves?

12 [REDACTED] Yeah. [REDACTED] is on, CEO of
13 INPO.

14 JIM WIGGINS: Okay. Good morning, [REDACTED]
15 [REDACTED] How are you?

16 [REDACTED] Fine. Thank you.

17 [REDACTED] (phon): [REDACTED] [REDACTED]
18 I'm at INPO emergency response center with some of our
19 staff. [REDACTED]

20 BILL BORCHARDT: Bill Borchardt, EDO.

21 MATT GOODE: Matt Goode, manager, Joint
22 staff.

23 [REDACTED] [REDACTED] [REDACTED] Babcock &
24 Wilcox president, GSG.

25 [REDACTED]: Good morning, [REDACTED]

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1 JIM WIGGINS: Okay. I think we should
2 just get going. We'll try to keep this agenda tight
3 and quick and move real quickly. I'll just give a
4 basic overview of NRC and probably go over some
5 current status at the site that I think you're well
6 aware of through your own sources. And then we can
7 shift it over to industry, and industry can give us
8 the, the current status of their plans and what came
9 out of yesterday's meeting.

10 As you know, the NRC has been in 24/7
11 coverage with a team in Japan supporting the
12 ambassador and the team in the ops center in
13 Rockville. The following activities and our principal
14 role has been to support our team in Japan and to do
15 some other communication and outreach efforts here
16 stateside.

17 Basically, the, as you probably well know,
18 the facility status is it seems to be on a positive
19 trend. There, there's nothing new to report with
20 regard to degradation of the reactors or the spent
21 fuel pools, and in fact, there are certain recovery
22 steps that are under way and some have been
23 successful. There is, there's power to, they had some
24 power lines run to Units 1 and 2. There's going to be
25 power lines run to Units 3 and 4, expected Monday,

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1 Japan time. The dose rates around, in and around the
2 facility appear to be lower than they were initially,
3 and that's a good sign.

4 And there doesn't seem to be any current
5 problems with the pools, although when you look at
6 Units 3 and 4, it's still subject to conjecture about
7 how much cooling or how much water may be need in the
8 pools. The water streams in Unit 3, Tepco is pretty
9 positive about those things being effective in putting
10 water back in the pools. We haven't been able to
11 confirm that using what sources we have here.

12 We've been running dose calculations. Not
13 a, there doesn't appear to be any significant new
14 information coming out of it. There is a, a, a hotter
15 area of deposition that runs northwest of the
16 facility. That was consistent with the wind direction
17 that existed at the beginning of the event. The wind,
18 most of the time in the event, has been blowing
19 easterly, so offshore. Now, today, it swung down
20 toward the south, but it's expected to be oscillating
21 between the east and the south through the day.

22 We have had several over-flights of the
23 aerial monitoring system, gotten data, and part of the
24 process is analyzing these runs as we get them. We're
25 also still working with the Department of Energy to

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1 make sure we have a, a handle on it possible impact on
2 US territories (i.e., Hawaii, Alaska and the West
3 Coast of the United States). We're using DOE's NARAC
4 operation in order to run those extended projections.

5 Our NRC projections are, are limited to 50 miles
6 around the facility, so we've been focusing on
7 in-country, in Japan, dose assessments.

8 As you know, we have still in place a
9 protective action decision for US personnel, and that
10 was to evacuate US personnel 50 miles around the
11 facility. That went in, I believe, on Friday and
12 that, that still stands.

13 I believe you, the industry, has access
14 and has a lot more data for the rest of the plant
15 status. So with that, I think it's helpful to go
16 directly to, to the industry. Maybe, [REDACTED] [REDACTED]
17 you might want to start off with a discussion of your
18 status and what directions you think industry will be
19 going.

20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]

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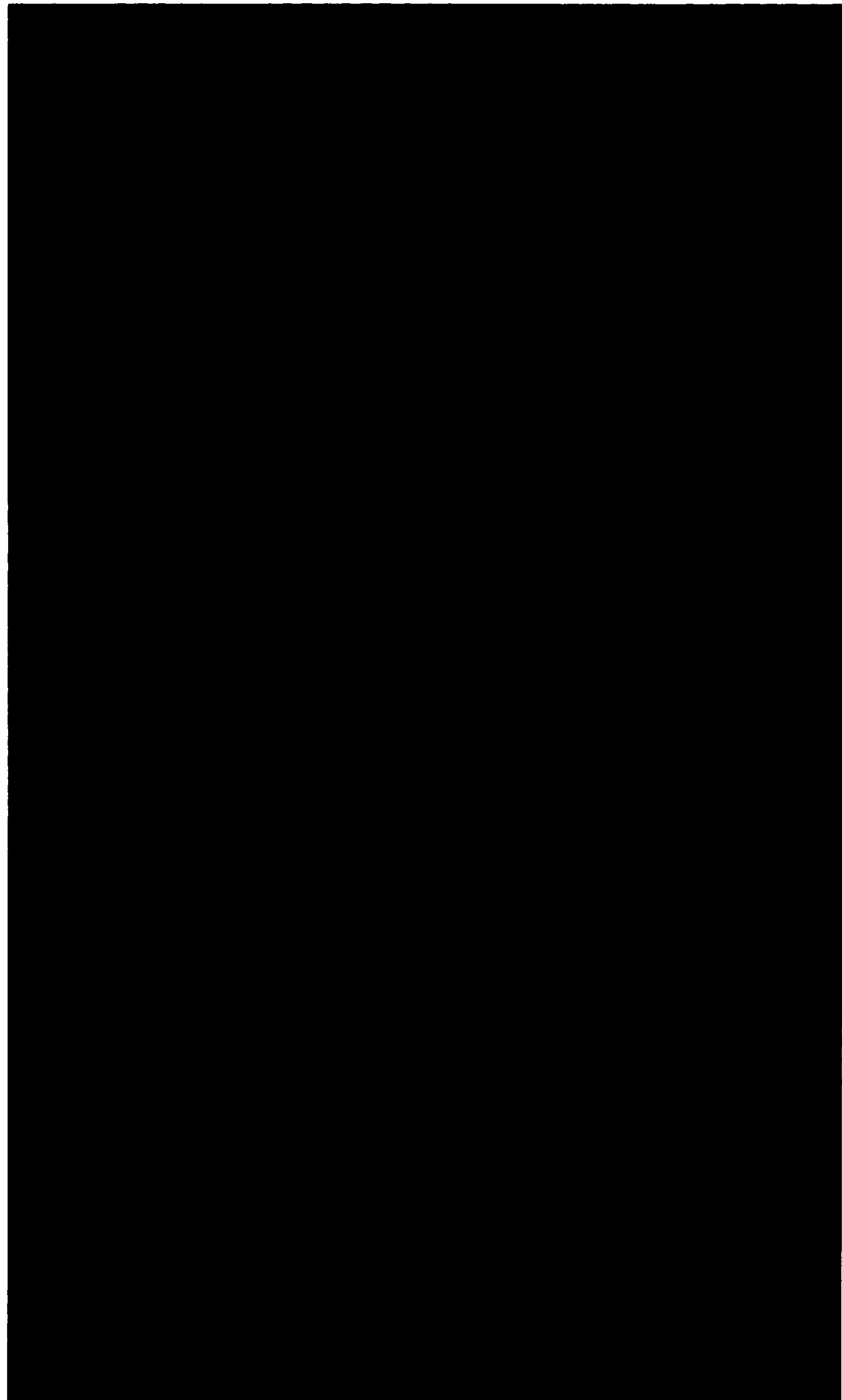
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[REDACTED]

BILL BORCHARDT: [REDACTED] [REDACTED] this is Bill Borchardt. Have you identified anything, any interface support or any other kind of support, you need from the US government?

[REDACTED] [REDACTED] Not at this point, Bill, but I think that's going to become more apparent here in the next 24 hours.

BILL BORCHARDT: All right. Thank you.

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1 JIM WIGGINS: And, [REDACTED] it would really
2 help us if you can identify a single or a set of
3 points of contact that we might be able to use to set
4 up any kind of future meetings and maybe have a
5 dialogue on things to kind of keep you apprised of
6 what we're up to you. You can keep us apprised of
7 what you're up to.

8 [REDACTED] Jim, I'll call you
9 separately, we can set that up.

10 JIM WIGGINS: Okay. That's, that's great.

11 STEVE LYONS: Steve Lyons. I think it
12 would be useful for the industry group to define the
13 kinds of capabilities that you would like in any sort
14 of a federal liaison or federal role. That would help
15 us identify the best agency and the best, the best
16 individuals to provide that support.

17 And then, while I'm talking, another
18 question would be, how soon do you hope to have one or
19 two, at least, senior-level people on the ground in
20 Japan to interface with Tepco?



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(No response.)

JIM WIGGINS: Hearing none, do we have an idea that we might want to talk again and we could preliminarily set a time for a subsequent discussion so we can understand how things are progressing?

BILL BORCHARDT: Yeah, Jim, this is Bill Borchardt. At yesterday's meeting, I believe we

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1 established that we would do a phone call at 10
2 o'clock every morning. What's going to be a little
3 unusual about tomorrow is that, at 10 o'clock tomorrow
4 morning, we'll be in the middle of a public Commission
5 meeting, which --

6 [REDACTED] I don't know if you're still
7 going to be in Rockville, but I'd certainly welcome
8 you to that Commission meeting. I, I think it would
9 be good background if nothing else.

10 And then I believe we were still working
11 to set up a phone call, including the principals, if
12 you will, of the various entities at 2:00 p.m.
13 tomorrow afternoon.

14 [REDACTED] [REDACTED] Have we established call-in
15 numbers, protocols, for the 2:00 p.m. call?

16 BILL BORCHARDT: I think that's still
17 working.

18 [REDACTED] [REDACTED] I appreciate that, Bill.
19 Just so you're aware, we'll be here in, in the
20 Marriott at least through Tuesday to get this initial
21 work done.

22 BILL BORCHARDT: Okay. Thank you.

23 [REDACTED] [REDACTED] This is -- and then I
24 understand there will not be at 10:00 a.m. call
25 tomorrow, and it's essentially replaced by the 2:00

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1 p.m.

2 JIM WIGGINS: That certainly makes sense
3 to me for Monday only.

4 MALE PARTICIPANT: Yes.

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1 think that some of this ought to be covered in daily
2 phone calls.

3 JIM WIGGINS: I think what, it seems to me
4 what would happen is the shift's beginning to get off
5 the ground, and as I understand it from Tom and the
6 industry people, their, their first steps are to
7 establish protocols for interactions with the
8 Japanese. And I think those things, let's presume
9 they will be successful in getting them in place.
10 Once those things are in place, I think it will become
11 much more orderly on who's doing what and who needs to
12 do what.

13 I could foresee a lot of these tactical
14 types of, of support requests would likely end up on
15 the industry-to-industry side of this because they
16 have, they have the materials, they have the
17 capability, they have the know-how that the government
18 side -- at least the NRC side -- is a little short on.

19 It may be a bit premature to, to expect
20 that we'd have a solution today, but I think we,
21 you're, you're right. We'll have, over the next
22 couple days, the phone calls. In the next couple
23 days, we'll see if things get a little clearer.

24 TOM HAVOSA: Which is why we wanted the
25 point contact we had discussed here, as to what

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1 information needs to go to what part of the MOD team
2 as opposed to the 10 o'clock call to establish the
3 clear purpose for this call.

4 JIM WIGGINS: Yeah, and Bill, Bill will
5 call.

6 Bill, you'll you can just call the ops
7 center again.

8 BILL BORCHARDT: Yeah, I'll give you a
9 call. I mean, what Tom just described and what time
10 just described there, I mean that's the crux of the
11 problem.

12 JIM WIGGINS: Yeah.

13 BILL BORCHARDT: But that's, that's what
14 we're working.

15 JIM WIGGINS: Yeah. And what we, what we
16 have now, our needs that have come up, and it was, you
17 know, frankly with the NRC team in the place out
18 there, it's about the only US government team in the
19 field that had any technical bent to it. Now, with
20 this industry process mounting up, there's actually a
21 different, and maybe better, avenue for, for Tepco to
22 get some of the things they think they need. So let's
23 see how that plays out.

24 [REDACTED] It's going to take some
25 number of days --

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1 JIM WIGGINS: Yeah.

2 [REDACTED] -- to set up these
3 protocols, and in the interim, the problem is still
4 with us. So we need to --

5 [REDACTED] Do we, do we have a full
6 understanding of who with the US government is, is, is
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]

11 JIM WIGGINS:

12 [REDACTED] There were people who were
13 weighing in that don't have a technical understanding.

14 I'm just trying to get it sense for who really is
15 the, the single point of contact on all this. The
16 industry can do wonderful things, but if they're not
17 allowed to ship this stuff into country, that really
18 makes the issue problematic.

19 JIM WIGGINS: That was [REDACTED] Right?

20 [REDACTED] That's correct.

21 JIM WIGGINS: Yeah, the hang-up was on
22 money, [REDACTED] That got resolved last night. There's,
23 there's -- a phone call happened. A, a number of
24 sides on the government side had a, had a view as to
25 -- I think most of the technical side would agree that

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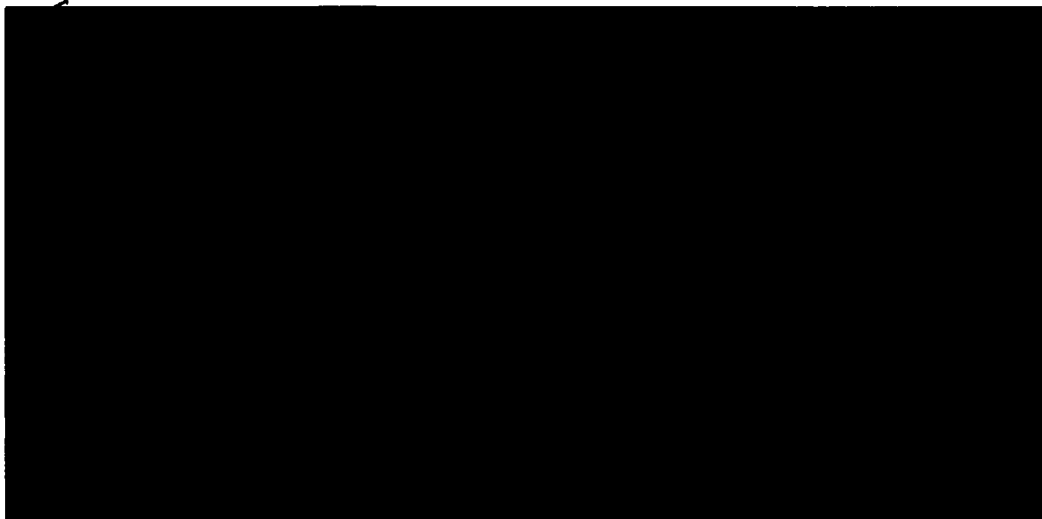
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They might as well put OMB in charge.

JIM WIGGINS: No, I don't know that that'll be it.

I think, I think you're probably talking among the folks on the call. Likely, it's one of those organizations in the end.

do you want to comment on that at this point?

Yeah, I don't have any comments beyond what's been made,

JIM WIGGINS: I mean Bill Borchardt.

BILL BORCHARDT: Yeah, that's, the US government lead, I think, needs to transition to an organization that has more of a project management/logistics background. We're still working that.

You know, the official answer is it's

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1 USAID, but we're certainly playing this unique
2 interface role.

3 TOM HAVOSA: But that's inadequate from a
4 technical standpoint. There needs to be a US
5 government technical oversight role.

6 JIM WIGGINS: That was Tom from Naval
7 Reactors.

8 So I think that Tom is, is agreeing with
9 [REDACTED] I think we're all in agree; that we need
10 to sort this out.

11 Okay. Any, anything else for this call?

12 (No response.)

13 JIM WIGGINS: Okay, hearing nothing, well,
14 thank you, gentlemen, for your efforts. It sounds
15 like you've made a lot of progress overnight, or at
16 least you got the beginnings to this thing started.
17 Maybe it's not the beginning of the end; right? It's
18 like the end of the beginning, like Churchill said.

19 So we'll talk at two o'clock tomorrow.

20 [REDACTED] Thank you very much.

21 JIM WIGGINS: Hey, [REDACTED], you can
22 call us back and give us some contacts so we can do
23 some, do some other types of work with those contacts.

24 [REDACTED] I understand, [REDACTED] I'll
25 give you a call here as soon as this call is complete.

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JIM WIGGINS: All right. Thank you.

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(CONFERENCE CALL INITIATED.)

00:49:28/00:52:00

JIM WIGGINS: Hey, [REDACTED] Jim Wiggins on the group are here.

[REDACTED] Hey, Jim. Hey, I wanted to follow up with the action items for the call and give you a number that you can reach us 24/7.

JIM WIGGINS: Okay.

[REDACTED] And the number --

JIM WIGGINS: As if we don't want to run across the street. Right?

[REDACTED] Yeah. Well, if you need us, just call. We can walk across the street.

JIM WIGGINS: Yeah.

[REDACTED] You know where we are.

The number is [REDACTED]

JIM WIGGINS: [REDACTED]

[REDACTED] That is correct.

JIM WIGGINS: Okay, it sounds like a cell phone.

[REDACTED] It is.

JIM WIGGINS: Okay. Is, is there a name there, [REDACTED] we should be shooting for? We have some, a lot of, there's a lot of pent-up desires that we have to try to control ourselves not to flood you with

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1 --

2 [REDACTED] yeah.

3 JIM WIGGINS: -- but we certainly needed a
4 point of contact to start talking about things.

5 [REDACTED] Yeah, this is [REDACTED]
6 [REDACTED]

7 JIM WIGGINS: Okay.

8 [REDACTED] And let me give you my
9 cell phone, too, because that's how kind of our
10 operating right now.

11 JIM WIGGINS: Yeah.

12 [REDACTED] It's [REDACTED].

13 JIM WIGGINS: Okay. Great.

14 [REDACTED] Hey, Jim, is Bill Borchardt
15 in today? Because I would like to talk with him.

16 JIM WIGGINS: Yes. I can give you his
17 inside line. You might still catch him.

18 [REDACTED] Okay.

19 JIM WIGGINS: It's [REDACTED] I'd ask
20 that you just use it today because he doesn't have his
21 secretary. Otherwise, just use his official one.

22 [REDACTED] Okay, so it's [REDACTED]
23 and just use that number today?

24 JIM WIGGINS: Yeah, because it goes right
25 into his office. He doesn't have a secretary today.

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1 [REDACTED] Okay. I'll --

2 JIM WIGGINS: You might want to try him
3 before he bails. He was just sitting around waiting
4 for the call.

5 [REDACTED] Okay. I'll, I'll see if I
6 can grab him before he goes.

7 JIM WIGGINS: All right, [REDACTED] We'll have
8 our guys talk to [REDACTED] and establish contact. Okay?

9 [REDACTED] [REDACTED] Very good. All right,
10 thank you, Jim.

11 JIM WIGGINS: Thanks, [REDACTED] Goodbye.
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1 (CONFERENCE CALL INITIATED.)

2 00:52:02/00:54:41

3 BILL BORCHARDT: Jim? Hi, Bill.

4 JIM WIGGINS: What's up?

5 BILL BORCHARDT: Yeah, I just got off the
6 phone with [REDACTED]

7 JIM WIGGINS: Yeah, I, I knew he was going
8 to call you. I gave him your number.

9 BILL BORCHARDT: Okay. And he's agreed
10 to, that the industry is going to send two people over
11 to Japan either tonight or tomorrow.

12 JIM WIGGINS: Okay.

13 BILL BORCHARDT: I told him that, that he
14 can call, you know, x5100. We'll orchestrate talking
15 with Chuck so that he can do introductions with these
16 two people to Tepco.

17 JIM WIGGINS: Yeah.

18 BILL BORCHARDT: As best as he can
19 orchestrate. And I also said, you know, we'll, I'm,
20 I'm confident the ambassador would help put a high
21 political hat on this as well.

22 JIM WIGGINS: Yeah.

23 BILL BORCHARDT: They're going to send
24 over some more logistics types to begin the
25 engagement. So I think that was, that's a good step

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1 forward anyway.

2 JIM WIGGINS: I think it is too. You
3 know, at least get the assets over there.

4 BILL BORCHARDT: Yeah.

5 JIM WIGGINS: It's wise to get the assets
6 over there and had them toward the Embassy. We can
7 put Chuck and the ambassador try to get the guys
8 toward Tepco that way.

9 BILL BORCHARDT: Yeah.

10 JIM WIGGINS: But at the least, Chuck's
11 people would have access to these guys, and as we
12 shake out the roles and responsibilities. I mean,
13 they could almost start fielding some of these
14 requests that Tepco's those making of Chuck's people.

15 BILL BORCHARDT: Yeah, exactly.

16 JIM WIGGINS: Okay. And, you know,
17 they're able to deliver probably more efficiently than
18 we can. That may motivate Tepco to use their guys
19 too. You know?

20 BILL BORCHARDT: Yeah.

21 JIM WIGGINS: Incentivize it.

22 BILL BORCHARDT: Okay. Have you heard
23 from the Chairman recently? I haven't, I haven't been
24 able to get a hold of him?

25 JIM WIGGINS: He called in at eight

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1 o'clock for a status.

2 BILL BORCHARDT: Okay.

3 JIM WIGGINS: And that was the last we
4 heard.

5 BILL BORCHARDT: Okay. Well, I'll keep
6 trying. I'll send him an e-mail. I'll cc you on your
7 personal email -- I mean, your work, but under your
8 name.

9 JIM WIGGINS: Yeah, my name. That's what
10 I'm, that's what I monitoring.

11 BILL BORCHARDT: Okay.

12 JIM WIGGINS: All right, but I'll just
13 tell you, we're filing every email for, you know,
14 potential later FOIA.

15 BILL BORCHARDT: Yes. Yes.

16 JIM WIGGINS: You know that.

17 BILL BORCHARDT: Yep, absolutely.

18 JIM WIGGINS: All right. Bye.
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(CONFERENCE CALL INITIATED.)

00:54:41/00:57:37

JIM WIGGINS: Hello, [REDACTED], it's
Jim Wiggins.

BILL BORCHARDT: Yeah, Jim.

JIM WIGGINS: What's up Bill?

BILL BORCHARDT: Nothing that I know of.
I, I didn't call you.

JIM WIGGINS: [REDACTED] was supposed to
come on the line.

BILL BORCHARDT: Oh, wrong [REDACTED].

JIM WIGGINS: Yeah.

[REDACTED] on the line.

JIM WIGGINS: You were looking for me,
[REDACTED] It's is Jim Wiggins.

[REDACTED] Yeah, I just wanted to
follow up with you on the conversation that Bill
Borchardt and I had about looking to see what the
mechanism might be for putting two industry people
with the Chuck Casto in
order to get them in the, embedded with Tepco so that
we could better understand and coordinate their needs
--

JIM WIGGINS: Okay.

[REDACTED] -- and trying to do this as

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1 a more urgent action as opposed to trying to wait for
2 kind of the broader protocol that we're putting in
3 place. That really is probably going to be later in
4 the week, but we could probably be moving people as
5 early as tomorrow.

6 JIM WIGGINS: Yeah.

7 [REDACTED] And I want to be assured,
8 or not -- assured is probably the wrong word -- but
9 just looking for the mechanism that we could have them
10 as part of the discussions with Tepco and coordinating
11 with DC and, back here.

12 JIM WIGGINS: We had envisioned that our
13 liaison team would work with your point of contact and
14 would put the point of contact in touch with Chuck
15 Casto, who's our guy there.

16 [REDACTED] Okay.

17 JIM WIGGINS: And what I think's going to
18 happen is, you know, it takes 14 hours to get there
19 anyhow, so while you're guys are in flight, Chuck
20 would be able to do more of the detail after he -- you
21 know, we ought to check with him and make sure there,
22 these guys are going to be, you know, not turned
23 around once they get there. I'm not saying that's
24 going to happen, but you want to assure yourself of
25 that.

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1 I think what they want to do, my view is
2 that they ought to heading toward the embassy first.
3 Chuck would likely be able to talk to the embassy, and
4 at least there'll be a place of them there. And then
5 move them towards Tepco from the Embassy.

6 [REDACTED] Okay. That, that would be
7 good. That was one of the -- and maybe with a point
8 of contact, kind of clarity with where they need to
9 go. You know, our objective would be to use this
10 mechanism really to get them in the Tepco's emergency
11 center or whatever the appropriation location.

12 JIM WIGGINS: Yeah.

13 [REDACTED] But, but in the right place
14 within Tepco.

15 JIM WIGGINS: Yeah, well, I really hope
16 you do get to the emergency center because we haven't
17 been able to.

18 (Laughter.)

19 JIM WIGGINS: Chuck thought he was on his
20 way to the emergency center and he ended up in a
21 meeting with like a senior guy at Tepco. So that kind
22 of crossed wires.

23 [REDACTED] Yeah.

24 JIM WIGGINS: But that was a couple days
25 ago. I think that's the best way to do it though.

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1 [REDACTED] Okay. Well, I'm going to
2 go ahead and get some people, you know --

3 JIM WIGGINS: okay.

4 [REDACTED] -- moving that way.

5 JIM WIGGINS: And we'll have the liaison
6 team talk to your guy, [REDACTED] [REDACTED]. Right?

7 [REDACTED]: Yes.

8 JIM WIGGINS: Yeah. Okay?

9 [REDACTED]: Thank you very much, Jim.

10 JIM WIGGINS: All right.

11 [REDACTED]: All right, [REDACTED]

12 JIM WIGGINS: Thanks. Goodbye.
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(CONFERENCE CALL INITIATED.)

00:57:43/01:10:30

CHAIRMAN JACZKO: Hello, everybody.

FEMALE PARTICIPANT: Hi. We're here,
Chairman.

CHAIRMAN JACZKO: What I'd like to try and
do -- hopefully you got the messages -- is just kind
of remind me what our priorities were since the last
turnover, what our priorities are going to be going
forward, and then any updates.

We don't have to do them in that order.
If you want to start with the updates, that would be
fine.

BRIAN SHERON: Okay. Chairman, this is
Brian Sheron. The top priorities at units --

Continue the steps with radiological
conditions, dose projections, and the protection
actions recommendation.

Obviously, we're trying to provide
technical assistance to the US ambassador in Japan.
We've been working closely with Chuck Casto and his
team in terms of the requests that they've had from
us, you know, to try and provide them with some
information as well as just some, you know,
brainstorming on some ideas.

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1 You know, for example, last night, the
2 Japanese were concerned about continued seawater
3 circulation through the reactors because that
4 basically turns the reactors into a big desalinization
5 plant. The water boils off but leaves a residual
6 salt. And the concern was that if they do that for
7 too long, you get a big salt buildup, which could
8 either affect heat transfer in the core through to the
9 fuel, or even perhaps start to partially plug of
10 panels.

11 CHAIRMAN JACZKO: Um-hmm.

12 BRIAN SHERON: And so, the concern the
13 Japanese had was how can we get fresh water in. And
14 they were concerned that they couldn't access the
15 reactor because of the high dose rates. And so they
16 asked us if we had any ideas on how they might reduce
17 those rates in order to get closer and maybe try to
18 access the primary system to get some fresh water
19 supplies, although we still don't know if they even
20 have any freshwater supplies that are available should
21 they get access.

22 I've asked the question of Chuck to find
23 out -- because they are injecting seawater into the
24 reactor, and the real question is -- where are they
25 getting the seawater from? Obviously, from the sea,

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1 but how is it getting into the reactor? They must
2 have some sort of a path that they were able to make.

3 And the question is, is that path available so that
4 they could hook up a freshwater supply.

5 CHAIRMAN JACZKO: Okay.

6 BRIAN SHERON: But that's still an ongoing
7 issue.

8 CHAIRMAN JACZKO: Well, let me -- hey,
9 Brian?

10 BRIAN SHERON: Yes?

11 CHAIRMAN JACZKO: Let's just go back.
12 Let's just try and stick, first, at high level for
13 what the priorities are going to be, so we make sure
14 we have the alignment.

15 BRIAN SHERON: Sure.

16 CHAIRMAN JACZKO: And then we'll go
17 through any specific updates and details on just the
18 status of the reactors.

19 BRIAN SHERON: Okay. The last one is just
20 to continue coordination with other departments and
21 agencies, including INPO and Bechtel.

22 CHAIRMAN JACZKO: Okay. So -- I'm sorry?

23 BRIAN SHERON: That's really what the
24 priorities are right now.

25 CHAIRMAN JACZKO: So let me go -- I,

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1 sounds like I heard three. Let me just repeat them
2 back to you.

3 Number one is continued, essentially,
4 assessment of the situation and any dose projections
5 and protective action recommendations.

6 BRIAN SHERON: That's correct.

7 CHAIRMAN JACZKO: Number two is providing
8 technical support as issues arise to help give input.

9 BRIAN SHERON: Yes.

10 CHAIRMAN JACZKO: And number three is the
11 coordination with the interagency and the INPO, the
12 INPO group.

13 BRIAN SHERON: Yes, and also with Tepco.

14 CHAIRMAN JACZKO: And Tepco, okay. Do we
15 have what I've originally kind of talked about as a
16 project management team or some executive group, which
17 was largely built around this INPO group. Is that
18 getting ready to mobilize at this point?

19 BRIAN SHERON: Yes. My understanding is
20 that that group, yesterday they came in and they met
21 at two o'clock with Bill Borchardt. I was there. We
22 finished at --

23 FEMALE PARTICIPANT: Ten.

24 BRIAN SHERON: Sorry -- well, anyway, when
25 we finished the meeting at 3:30, they stayed after and

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1 met internally among themselves. They said that they
2 were going to be acting, as they used the term, within
3 days rather than weeks.

4 CHAIRMAN JACZKO: Good.

5 BRIAN SHERON: And I think they're also
6 meeting, this is at 10 o'clock today.

7 CHAIRMAN JACZKO: Okay. Okay. Good.
8 Maybe by the next call this evening, if you can, have
9 an update for me about how that ten o'clock went.

10 BRIAN SHERON: Sure. We'll see what we
11 can find out.

12 CHAIRMAN JACZKO: Okay. Well, good. So
13 those are priorities. Those are our priorities going
14 forward then?

15 BRIAN SHERON: That is correct.

16 CHAIRMAN JACZKO: Okay. And maybe you can
17 just walk me through the status of the plant and
18 issues, anything you want me through there.

19 BRIAN SHERON: Sure. Units 1, 2, and 3
20 appear to be in stable condition with seawater
21 injection continuing. The containments are believed
22 to be intact in Units 1, 2, and 3.

23 Containment pressure in Unit 3 is believed
24 to have stabilized and venting is not expected. Tepco
25 believes that the water they've sprayed on the Unit 3

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1 spent fuel pool has had some effect on reducing the
2 dose rates. So they went from 3.4 mSv to 2.75 mSv 500
3 meters north of the reactor.

4 And their focus right now is on the Unit 4
5 spent fuel pool.

6 CHAIRMAN JACZKO: Okay.

7 BRIAN SHERON: So the Japanese
8 self-defense forces, their fire department, plans to
9 resume water injection to the Unit 4 spent fuel pool
10 from the ground level today.

11 CHAIRMAN JACZKO: Okay.

12 BRIAN SHERON: They've got two diesel
13 generators running and supplying AC power to Units 5
14 and 6. Unit 5 residual heat removal pump, which is
15 powered by one of the Unit 6 diesel generators, was
16 started and is providing cooling to the Unit 5 spent
17 fuel pool.

18 CHAIRMAN JACZKO: Okay. Good.

19 BRIAN SHERON: Tepco's right now
20 installing high-voltage cables near the transmission
21 line to Units 1 and 2. Priority is being given to
22 restoring power to the RHR and cooling water pumps.

23 CHAIRMAN JACZKO: Okay. Do they have an
24 estimate of when is the earliest that could be done?

25 BRIAN SHERON: It says Units 1 and 2 have

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1 temporary power to a 6.9 kV panel and Tepco is working
2 to have temporary cables run to necessary equipment.

3 CHAIRMAN JACZKO: Okay.

4 BRIAN SHERON: Power to Units 3 and 4 is
5 planned for later, perhaps by Monday. And that's
6 really about all we know right now in terms of where
7 they are with the electric hookup.

8 CHAIRMAN JACZKO: Okay.

9 BRIAN SHERON: We're still awaiting
10 results from NARAC on the bounding worst-case source
11 term's potential effects on the US.

12 CHAIRMAN JACZKO: Okay.

13 BRIAN SHERON: The Protective Measures
14 Team here has drafted a more realistic worst-case
15 source term that is still being evaluated and is
16 focusing efforts on this scenario.

17 The wind direction right now is primarily
18 from the south for the next 12 hours, and then it's
19 expected to shift to the southeast, which would be,
20 again, off shore.

21 CHAIRMAN JACZKO: Okay. Do we have an
22 update on the Bechtel equipment from Australia?

23 BRIAN SHERON: I don't. I apologize. I'm
24 was not given any new information. We can find out --
25 I'm sorry.

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1 Do you have it?

2 DAVE SKEEN: I have something.

3 BRIAN SHERON: Yeah, Dave Skeen has it.

4 CHAIRMAN JACZKO: Okay. Great.

5 DAVE SKEEN: Hey, Chairman, I just got it
6 in turnover here for the Reactor Safety Team. The
7 plan is for the first plane to leave Perth tonight at
8 11:00 p.m. Eastern Daylight Time, and the second plane
9 would be followed the next day about the same time, at
10 about 11:00 p.m.

11 CHAIRMAN JACZKO: Okay. Good.

12 DAVE SKEEN: That's the plans right now.

13 CHAIRMAN JACZKO: Okay. Good.

14 DAVE SKEEN: So they're bringing one train
15 tonight. The second plane will have a second train on
16 it when they get that up and towards Japan.

17 CHAIRMAN JACZKO: Okay. Good. And I know
18 there was some discussion earlier about whether or not
19 we thought that was necessary, and then I guess there
20 was further discussion and we're comfortable with them
21 sending it. Is that correct?

22 BRIAN SHERON: Yes. What we included was
23 that, based on our discussions, I think, with Chuck
24 Casto, was that the pumps and the equipment, while it
25 was not a primary -- in other words, it would not be

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1 their first line of defense; they already had
2 equipment there -- it would serve as a backup or a
3 tertiary set of equipment in case something did fail.

4 CHAIRMAN JACZKO: Got it. Good. Well,
5 and just to be clear, I'm okay with that, and I'm in
6 agreement that that is the case. If we, if we need to
7 change that assessment, either it's more urgent or
8 less urgent, make sure you run that by me before we
9 do.

10 BRIAN SHERON: Okay. Will do.

11 CHAIRMAN JACZKO: Good.

12 LARRY CAMPER: Chairman, Larry Camper. I
13 have a couple more pieces of information.

14 CHAIRMAN JACZKO: Hey, Larry, is this your
15 first shift?

16 LARRY CAMPER: Oh, no, no, no.

17 (Laughter.)

18 CHAIRMAN JACZKO: I've missed you.

19 (Laughter.)

20 LARRY CAMPER: And by the way, you did a
21 great job downtown the other day. I wanted to tell
22 you that.

23 CHAIRMAN JACZKO: Oh, thanks.

24 LARRY CAMPER: In looking at my hand-off
25 notes here, a few things - [REDACTED] is the point

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1 manager, but an individual by the name of [REDACTED]
2 [REDACTED] has been appointed as logistics guys. We
3 have phone numbers for both of those players.

4 CHAIRMAN JACZKO: Good.

5 LARRY CAMPER: They're still working out
6 of the Marriott over here. They've moved into 24/7
7 support role.

8 CHAIRMAN JACZKO: Good.

9 LARRY CAMPER: Their priorities are
10 protocol to establish for dealing with Tepco, what can
11 actually be done through commitment to Tepco. Develop
12 a product to offer to Tepco officials. You know, what
13 will be brought to bear and when. And establish a
14 process and logistics for the US to move more
15 effectively in engaging with Japan.

16 CHAIRMAN JACZKO: Good.

17 LARRY CAMPER: They're trying to get these
18 three things done this week.

19 CHAIRMAN JACZKO: Good.

20 LARRY CAMPER: Okay? There is a daily
21 call that takes place with IMPO at 10:00 a.m. Except,
22 tomorrow, it won't be a 10:00 a.m. call because of the
23 Commission meeting. It will be at two o'clock
24 tomorrow.

25 CHAIRMAN JACZKO: Okay. Good.

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1 LARRY CAMPER: So it sounds like the
2 progress is taking place there.

3 CHAIRMAN JACZKO: Good. Good. Yeah, and
4 I think on that, the continued thing to emphasize is
5 some sense of urgency with that, actions that. You
6 know, the situation seems to be stabilizing but it's
7 not yet what I would call long-term stability, and
8 that, in my mind, is essentially off-site power
9 restored and at least some degree of more normal
10 circulation in, in, for the reactors and then stable
11 water level in the pools.

12 BRIAN SHERON: Yes, sir. What we don't
13 know right now, and I think Chuck Casto has expressed
14 concern, and that is that, even though they've gotten
15 off-site power back onto the site and are in the
16 process of hooking it up, we really don't know whether
17 this equipment is going to, is going to run once it's
18 hooked up.

19 CHAIRMAN JACZKO: Yeah. Yeah. Well, are
20 we thinking ahead, if that were to happen, about, you
21 know, alternate pumps and other, other ways can we
22 bring in portable pumps that you could --

23 BRIAN SHERON: Well, that's what's coming
24 in from, from Australia.

25 CHAIRMAN JACZKO: Okay. Okay. Good. So

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1 that would deal with all that.

2 BRIAN SHERON: Yes.

3 CHAIRMAN JACZKO: Okay. Good.

4 BRIAN SHERON: But the problem, one of the
5 problems was trying to find places to hook up to.

6 CHAIRMAN JACZKO: Yeah. Got it.

7 Okay, other updates the status you have
8 for me?

9 BRIAN SHERON: Just -- updates -- we've
10 asked Jack foster over in Tokyo on our site team to
11 find out what he knows, what the Japanese know, about
12 increased radiation levels that they're seeing in food
13 products.

14 CHAIRMAN JACZKO: Okay.

15 BRIAN SHERON: And we're looking right now
16 at [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

17 [REDACTED]

18 CHAIRMAN JACZKO: Okay. Good.

19 BRIAN SHERON: And I think that is about
20 it unless you have any questions.

21 CHAIRMAN JACZKO: No. That sounds good.
22 And then in terms of notifications to me, have a low
23 threshold for my engagement if we get hung up in any
24 interagency issues or kind of this work with the INPO
25 team. If there's any slowdowns or anything like that

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5

1 where that sense of urgency gets lost, let me know and
2 I will engage to, to restore it.

3 And, of course, if there's any significant
4 worsening of the situation, notify me.

5 And finally, if we need, would need to
6 make changes to what we believe are the appropriate
7 protective action recommendations for what we do here
8 in the US, if you can notify me of that as well.

9 BRIAN SHERON: Will do.

10 CHAIRMAN JACZKO: Okay. Good. Thanks,
11 everybody. Appreciate it.

12 BRIAN SHERON: Okay. Thank you.

13 CHAIRMAN JACZKO: Talk to you soon.
14 Goodbye.

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(CONFERENCE CALL INITIATED.)

01:10:39/02:12:33

JOHN MONNINGER: Hey, Brian.

BRIAN SHERON: Hey, John.

JOHN MONNINGER: How are you doing this --

BRIAN SHERON: One of the guys in the
back, [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

JOHN MONNINGER: Okay.

BRIAN SHERON: [REDACTED]

JOHN MONNINGER: Okay.

BRIAN SHERON: He says that they're not
seeing any steam coming off of that pool, which to

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1 them implies it's dry, [REDACTED] [REDACTED] [REDACTED] [REDACTED]

2 [REDACTED]

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 The, the plan was that they were going to

11 send the, the one pump. One of the four pumps was

12 going to be sent from Australia, and they were going

13 to bring it on site, I guess, and hook it up and make

14 sure that it even worked before they went off and made

15 a decision on bringing the other three, because

16 there's apparently a lot of money involved.

17 So now I've got the guy [REDACTED] [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 JOHN MONNINGER: Okay. Are you ready?

24 BRIAN SHERON: Yes.

25 JOHN MONNINGER: So we agree that Unit 4

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1 is definitely a priority also. Several days ago, our
2 number one priority with Unit 3, and then they were
3 going to move to Unit 4. They had done some rough
4 calcs several days ago showing that Unit 3 was empty,
5 and everything we have seen out here, we generally
6 agree with their assessment that Unit 3 should be the
7 priority.

8 We did not perform -- pardon me?

9 BRIAN SHERON: The spent fuel pool or the
10 primary containment?

11 JOHN MONNINGER: The spent fuel pool.

12 BRIAN SHERON: Okay.

13 JOHN MONNINGER: Okay. So that was back
14 on 3/18. It was Tepco who had performed a calculation
15 with regard to six days being left, but they said
16 those calculations have large uncertainty in them and
17 they have no clear indications, you know, what the
18 level is in the buildings. They've been trying aerial
19 photography and all kinds of stuff but, you know, they
20 really don't know.

21 They've also been doing the infrared
22 detection and they say, you know, all pools show at or
23 less than 100 degrees Celsius. But, you know, with
24 the amount of rubble and stuff on top, it, it's very
25 difficult to, to be able to rely on any of those

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1 indications.

2 BRIAN SHERON: Well, the -- yeah, go
3 ahead. Go ahead.

4 JOHN MONNINGER: We out here, we have been
5 concerned about spent fuel pool reactor 4 for a very
6 long time also.

7 You know, the stuff they're doing, you
8 know, initially, the fire trucks and now, then they
9 had the, the riot spray pumps, and then yesterday or,
10 you know, probably about 36 hours ago, they brought in
11 that airport super high-capacity remote unmanned
12 pumper truck --

13 BRIAN SHERON: Yeah.

14 JOHN MONNINGER: -- and also the, the
15 helicopters. All those systems are really not highly
16 effective, or actually just marginally effective.
17 And, you know, the problem is, I mean, we're shooting
18 from so far away, you have incredible losses.

19 BRIAN SHERON: Right.

20 JOHN MONNINGER: I mean, just with that
21 powdering, the dropout, et cetera. So that's, so
22 that's all that. So, yes, we've been concerned with
23 Unit 4 all along.

24 And I think Unit 4 is the one we got in a
25 little bit of trouble with, with, you know, the

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1 assessments of structural integrity to the side of the
2 spent fuel pool wall. I think that's the one that has
3 the damage further down on the sides. So we had had
4 some questions from right on asking whether one entire
5 wall of the spent fuel pool had been taken out.

6 They later came back with some drawings
7 and some photos showing their, our concerned with the
8 wall. Yes, that was a major exterior concrete wall,
9 but the spent fuel wall was a different wall that was
10 further in. But, okay.

11 DAVE SKEEN: Hey, John, this is Dave
12 Skeen. I'm sorry. I just caught the last part of
13 your conversation there. I, I thought it was 3, we
14 were concerned about, the wall and the spent fuel
15 pool, because that was the one that had the largest
16 explosion, and that looked like it blew out of blew
17 out a pretty big piece of concrete wall.

18 JOHN MONNINGER: Yes.

19 DAVE SKEEN: The concern with 4 was always
20 it should have about 10 times the decay heat in there
21 of 3 because they had to have full core offload in
22 there.

23 JM: Right.

24 DS: Yet, when we see pictures, we never
25 see any steam coming out of 4, which would lead you to

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1 believe that there's no steam. There must not be any
2 water to steam out of there.

3 JOHN MONNINGER: Right.

4 DAVE SKEEN: And so it seems like it must
5 dry.

6 JOHN MONNINGER: Right.

7 BRIAN SHERON: John, what we're looking
8 what right now is -- you know, the, the fellow from
9 Naval Reactors made a recommendation that we should
10 get the rest of those pumps and associated equipment
11 that's in Australia on airplanes and over to, to the
12 site.

13 The question is -- I have no idea -- you
14 know, you know, it's nice they now, they say it's a
15 wonderful thing to do, but I have no idea.

16 JOHN MONNINGER: Right.

17 BRIAN SHERON: You know, that's got to be
18 coordinated with Tepco.

19 JOHN MONNINGER: Yeah.

20 BRIAN SHERON: I have no idea whether they
21 want those pumps, you know, if they have the same
22 priority, if, if they have the means to hook them up
23 and spray, use them to spray the Unit 4 pool et
24 cetera, et cetera.

25 JOHN MONNINGER: Right.

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1 BRIAN SHERON: So I'm looking for some
2 guidance.

3 JOHN MONNINGER: Okay. So the status of
4 the reactor and the knowledge of the reactor is
5 actually much [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
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MALE PARTICIPANT: Yes.

JOHN MONNINGER: Yeah. This truck has a boom that goes at least 58 meters out. So they wanted to know, you know, when it could be there, et cetera, and we had to this big disconnect in communications, and we said, no, we're not bringing that. And, you know, Tepco was like -- I said that was a system that was based on the concrete pumping trucks with Tepco's system -- and they were using the company's name is

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1 SAMY. And they give the model number, yada, yada,
2 yada -- and they told us there were two of those in
3 the country.

4 So there was the Tepco system that was
5 based on the SAMY concrete pumping trucks and then
6 there was, the Bechtel/NRC system was based on the
7 water cannons. And we had a big call, you know, a
8 couple nights ago and everyone, you know, a bunch of
9 engineers gave the pros and cons of each system. And
10 we tweaked their some and they tweaked ours. And that
11 they had any of the questions, they were to get back
12 to us.

13 So that was a meeting that was at Tepco --
14 actually, it's getting more clear to me because I'm
15 still waking up -- but that was two o'clock, well, two
16 o'clock our time yesterday, which, I guess, was your
17 guys' one o'clock. And Jennifer pulled together all
18 the forces from industry together for the one o'clock
19 call. So we ended that meeting.



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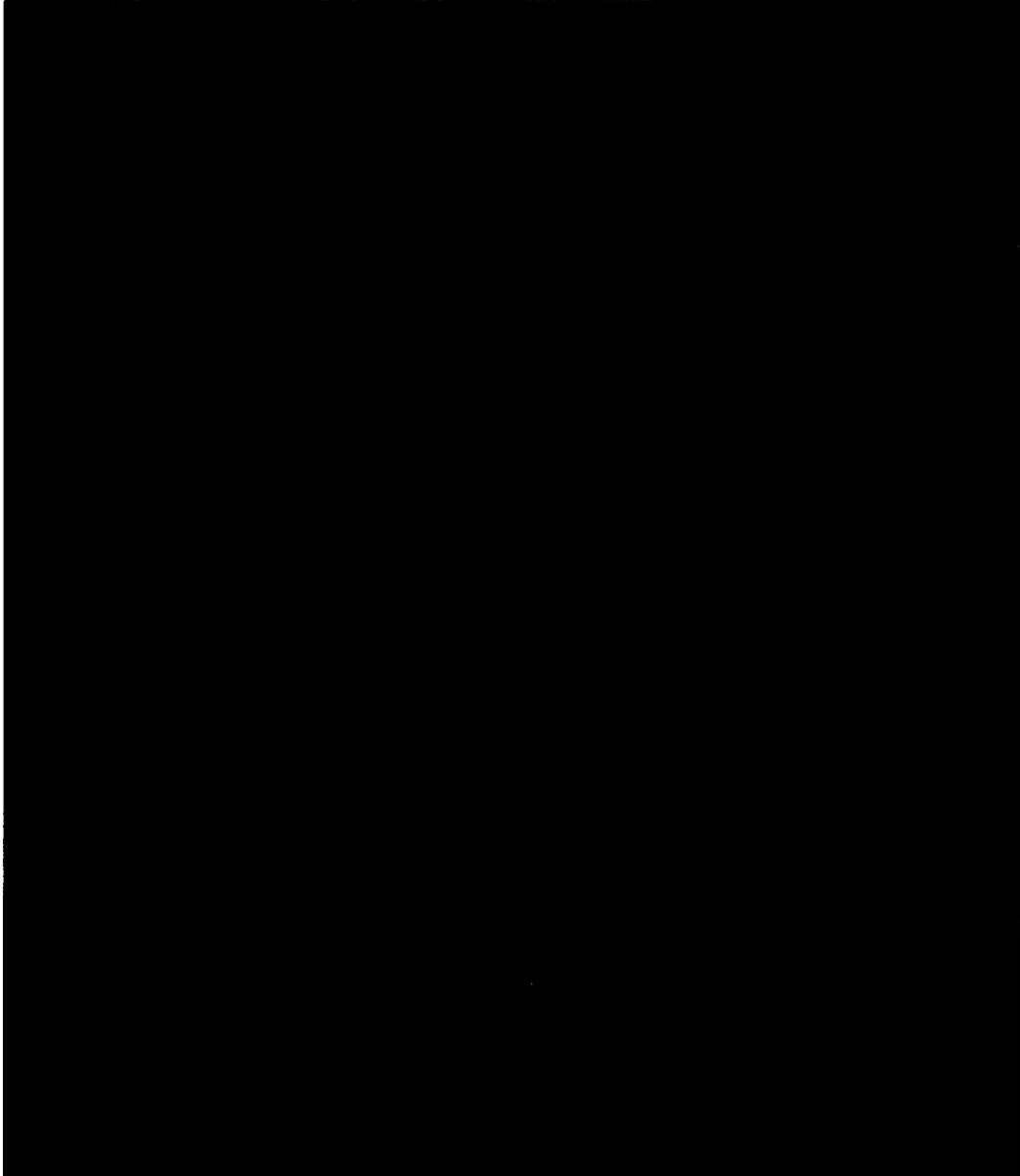
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1 country, we have talked with the Japanese Self-Defense
2 Forces. It's being flown from Australia to the Air
3 Force Base -- I forget the name -- and then, once it
4 arrives at the air force base, the Japanese
5 Self-Defense Forces were going to move it up to the
6 site. So then Jennifer had all these questions, and
7 she said, you know, once we get answers, we'll have
8 another phone call, et cetera, to work through it.



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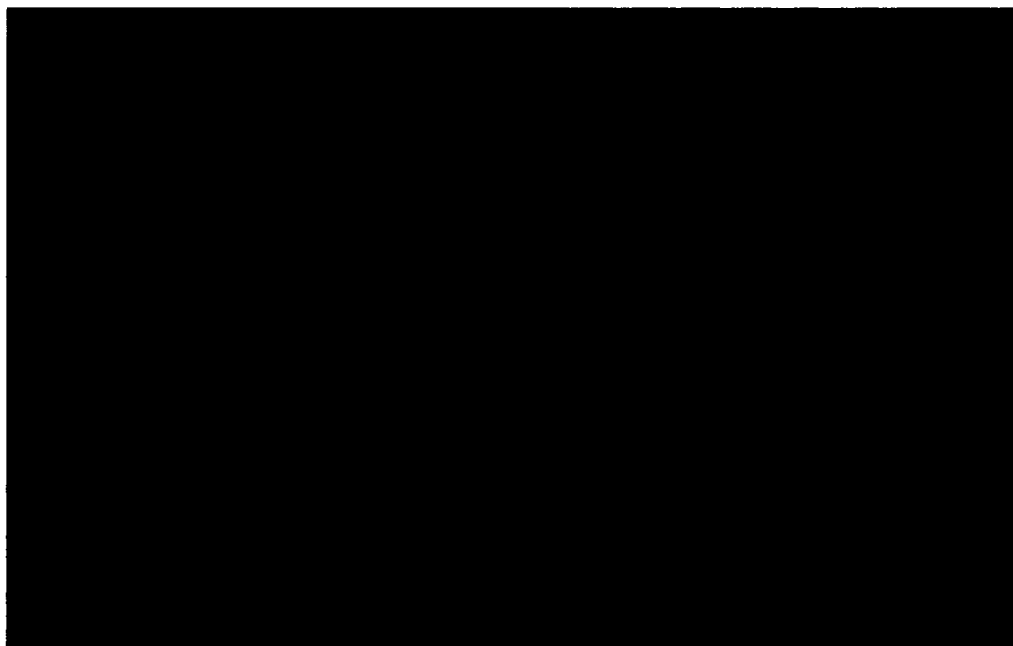
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1 directly to another meeting with the Ministry of
2 Defense, which is a different meeting. Our prior
3 meeting was with Tepco and the Ministry of Foreign
4 Affairs. So, and it's a big meeting at the Ministry
5 of Defense, who was actually in charge of on-site
6 operations there.

7 You know, we had a lot of questions back
8 and forth, back and forth, and the guys from the State
9 Department said, okay, you know, if we get this here,
10 are you going to use on site? And basically the
11 conversation digressed to the point that they say, you
12 know, we have not accepted this equipment to come into
13 the country, so, let alone allowing it to come to the
14 site. So, you know, it is extremely unclear where
15 this approval needs to come from. So that was said,
16 you know, at the meeting.



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1 [REDACTED]
2 [REDACTED]
3 So they gave the go-ahead there, you know,
4 with, you know, with the Air Force for the plane to
5 take off. So I'm not sure if it took off or not. But
6 it supposedly is, but --

7 DAVE SKEEN: The latest word we have,
8 John, the latest word we have, 11 o'clock Eastern
9 Daylight Time tonight. So that's about six or seven
10 hours.

11 JOHN MONNINGER: Yeah. So, you know, have
12 -- not him -- I have no idea what side or how many
13 people from the government has said yes. And then you
14 just hear, no, we don't accept it. And in one
15 meeting, we hear from all the Tepco Corporation that
16 they got all these questions, et cetera. The next
17 meeting the Tepco individual says, we will not use the
18 system.

5

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

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1 So, you know, I, I'm giving you the
2 context., so, you know, if you try to discuss the
3 spray system 2, 3, and 4, you know, right now, one,
4 one train -- it is incredibly unclear what will happen
5 with this one system when it lands in the country.

6 BRIAN SHERON: All right. So I guess I'm
7 gathering from this that you don't need any more pumps
8 right now.

9 JOHN MONNINGER: Right.

10 BRIAN SHERON: But the concern, I guess,
11 that was expressed over here, and I don't know if you
12 guys looked at it independently, is if the, is it the
13 spent fuel pool in Number 4 is dry --

14 JOHN MONNINGER: Right.

15 BRIAN SHERON: -- and, you know,
16 apparently has a, a full-core offload on there, you
17 know, is this, is it a molten mass that's starting to
18 head into, you know, starting to interact into the
19 concrete?

20 JOHN MONNINGER: Right. We are, we
21 actually think the steaming is good, and we've raised
22 the concerns, you know, multiple times when the
23 steaming stopping. You know, they're, they're at a
24 loss what to do. They are at a loss what to do. You
25 know, the helicopter overflights, you know, it's

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1 reported out, and you go to the meetings, and they
2 say, you know, so many -- not hundreds -- but so
3 many tens of tons of water have been dropped, you
4 know, or hundreds of tons of water have been dropped.

5 And then you look at TV and you're like,
6 well, that cannot be, like less than 10-percent
7 effective due to the speed of the helicopter, the
8 winds, et cetera. And they acknowledge, and you're
9 -- you know, so the one thing is being reported in the
10 media that these fire trucks are going in and out, the
11 helicopters are doing this, the super capacity pumping
12 system. But then, when you get actually down into
13 Tepco and start talking to the engineers, you find out
14 that it really isn't that effective.

15 So we, you know, in terms of, you know,
16 that pool or even Unit 3 -- I mean, Unit 3 was, you
17 know, they believe Unit 3 was, you now, they believed
18 Unit 3 was dry, and it was multiple days before, you
19 know, they got those, even those first fire trucks in,
20 so that's why they put their priority on Unit 3. And
21 they believed they had some time on Unit 4.

22 They had moved some, some equipment over
23 to Unit 4. I just -- you know, so they are working
24 both Unit 3 and Unit 4. But, you know, we've pushed
25 on very significantly to, to -- you know, what is

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1 your assessment? Why do you believe what you're doing
2 is effective given this huge spray range? And they
3 come back and say, well, [REDACTED]

4 [REDACTED] JT
5 [REDACTED]
6 And (inaudible), I said, well, if that's
7 the case, why are you relying upon it? They say, you
8 know, if anything was hotter, [REDACTED] [REDACTED] [REDACTED] [REDACTED] JT
9 [REDACTED] I said it was our understanding through out
10 discussions with you guys that the Unit 1 roof did not
11 explode outwards and all the debris go all over the
12 place, but essentially dropped down on, on the slab
13 onto the pool in the refueling floor. JT

14 I said, if that's the case [REDACTED]
15 [REDACTED] more or less, for all four
16 sites, how can you say that? You know, one, because
17 the roof, you know, is three inches or so of concrete.
18 You know, you're not comparing apples to apples. You
19 know, if you had a clear view of the spent fuel pool
20 through the water, that would be fine, but one of
21 them, you may have an entire concrete roof sitting on
22 top. Others, you have varying amounts of debris.
23 And, you know, there's really no response.

24 You know, then, then they're telling us
25 all these volumes of water that have been put in. I

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1 said, hey, all right, that's fine, but I've seen it on
2 TV. I saw the helicopters on TV. I said, had you
3 done any back-of -- They want to say, we put 100 tons
4 of water on because that's what, what has been pumped.

5 I said, have you done any back-of-the-envelope
6 calculations? What would it take to fill that thing
7 and throw in your losses for spraying and throw in
8 some type of estimated losses for what may potentially
9 be getting through this debris? No response.

10 You know, then the other thing is, all
11 right, so your fire trucks are going in; your fire
12 trucks are going out; your fire trucks are going in;
13 your fire trucks are going out. You're telling us the
14 number of fire truck runs, these tons of water that
15 have gone in there. Do the fire trucks have rad
16 monitors on them? You should be seeing, when you get
17 close to that reactor building, incredible shine from
18 the spent fuel pool. Have the rad monitors changed
19 from truck to truck to truck that would show some
20 level of shielding from the pool being filled? You
21 know, some level that you could assess that what
22 you're doing is doing some good? The answer is no, we
23 have not been looking -- or, no. They said, first
24 they look back and forth, and in the one guy said, no,
25 there has been no change.

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1 So, so I said, you know, at this meeting
2 here, you have told us that you been effective and
3 successful in these helicopter runs, in the fire truck
4 runs, et cetera, and the measures you're using is this
5 [REDACTED] thing. You know, some of the units are
6 still, nothing coming down. You know, [REDACTED] [REDACTED]

7 [REDACTED]
8 [REDACTED]
9 [REDACTED] You know, the ones that you're doing rad
10 monitoring for, there's no change due to the potential
11 shielding and the water coming off.

12 So, you know. So --

13 BRIAN SHERON: Okay. Well, I think you
14 answered my question.

15 JOHN MONNINGER: Yeah. Yeah.

16 Well, with that, and so Jennifer -- well,
17 the Reactor Safety Team and Bechtel, et cetera --
18 they're running through all these issues, and the
19 biggest issue for the pumping, for the Bechtel/NRC
20 system, if it comes on site, there's a good chance
21 they won't use it. But even if they did use it, they
22 don't think it will be effective.

23 So, now, what we're doing is we're looking
24 at that concrete pumper truck that, they have two of
25 them in Japan, and they are saying they're getting

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1 them to the site. The concrete pumping truck -- you
2 know, the notion is to get the boom and the hose, you
3 know, 10 feet, 20 feet, 30 feet, you know, whatever,
4 right over top of the reactor building, right over top
5 of the spent fuel pool, and the water's just going to
6 drop straight down. It's not a spray pattern or
7 anything.

8 BRIAN SHERON: Right.

9 JOHN MONNINGER: So, one, one of the
10 things that you guys back there are doing, Bechtel and
11 company, is looking at, hey, how can we use 90 percent
12 of this system that is coming up from Australia and
13 hook it into the concrete pumping truck? I mean,
14 there's, you know, probably six-inch or eight inch
15 pipe there. You've got the boom for the concrete
16 pumping truck and then you've got the steel piping
17 that actually carries the concrete. You know, what
18 can be done to put the T in there, you know, some type
19 of connect, into the concrete pumping truck?

20 You know, one of our things, potential
21 concerns, with the concrete pumping truck, which was
22 the Tepco system, is the notion that, you know, is
23 that really a system that is rated for continuous 24
24 hours a day, seven days a week, 365 days a year
25 operations. We want it -- and that's one, one of the

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1 design concepts or philosophy things was for the
2 Bechtel system. Put together a commercial industrial
3 system, these pumps that are designed for continuous
4 operation versus the concrete pumping trucks, so, and
5 versus the need for an operator or whatever to have to
6 get right up close there, you know, for refueling
7 operations, et cetera.

8 So, you know, that's what our system with
9 the rocket cannon, the guys put a huge diesel storage
10 tank on the back of the flatbed trailer.

11 So, so we agree, you know, that Unit 4,
12 you know, there's no idea what's going on with Unit 4.

13 There's no, we have don't have any clear idea that
14 Unit 3 has gotten any better. And, you know, we've
15 gotten in a little bit of trouble out here, you know,
16 passing on or just even discussing assessments, you
17 know?

18 And, you know, if you guys want to talk
19 what you're talking about before, you know, the spent
20 fuel pool, you know, going through the floor -- which
21 is in my mind, too, and I've mentioned it to several
22 people -- what's that going to do? Right now, the rad
23 levels at the site are high as hell. Okay? You know,
24 several of us have talked about, if that happens, are
25 the rad levels at the site somehow going to skyrocket?

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1 Skyrocket -- I mean, they're already 10 to 30 R per
2 hour in areas. If it goes through the spent fuel pool
3 floor, what is that going to do to access to your site
4 to continue to do anything for Unit 1 spent fuel pool,
5 Unit 2 spent fuel pool, Unit 4 spent fuel pool, or the
6 three reactors?

7 So that's, that's the concern. You
8 understand that?

9 DAVE SKEEN: Yeah. We got you, John.
10 We'll take a look at that.

11 JOHN MONNINGER: All right. So, so
12 there's some pretty significant discussions going on
13 still with just being able to get train 1, you know,
14 into the country and up, up to the site. You know, we
15 are bringing it onto the Air Force base. You know, we
16 are allowed to -- I'm not sure how it works, US
17 military property or whatever -- but it is coming onto
18 the Air Force base. And our push, our proposal is to
19 take one or two Tepco engineers down to the Air Force
20 base and show them this equipment, you know, and
21 somehow hopefully get the blessing that it can now
22 move from the Air Force base onto their country's
23 property, be transported up to the site, and
24 potentially be considered for use.

25 But I mean, there are large, or, there are

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1 large hurdles to be passed for the notion of, you
2 know, proceeding with trains 2, 3, and 4 when you've
3 got these huge hurdles with train one. They're crazy.

4 DAVE SKEEN: Yeah, I understand, John.

5 At one time, at one time, GE Hitachi had
6 offered have them bring the system over here so that
7 they could do some training of whoever's going to
8 operate and install this system. Do you know that's
9 still being worked, or are you now talking about
10 taking the system directly to the site?

11 JOHN MONNINGER: Yeah, I -- you know, I'm
12 only involved in the spent fuel project maybe five
13 percent of the time, so I could be mistaken here.

14 BRIAN SHERON: Okay.

15 JOHN MONNINGER: Well, no, with that said,
16 I understand that on this airlift, Air Force airlift
17 from Australia, there are two or three people that are
18 coming on that plane. But what was mentioned to me
19 was they were the vendor's reps or whatever for these
20 pumps and hoses, et cetera. So, whether the vendor is
21 actually GE -- but it's the people who really know
22 these pumps that are supposedly on this airplane.

23 DAVE SKEEN: Okay.

24 JOHN MONNINGER: And whether it's, yeah,
25 so whether it's GE or that some other pump and engine

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1 and pipe, I don't know. But they're supposed to have
2 the people that know what's on it.

3 But the other thing is, all right, so
4 we're flying all those people up. Are they going to
5 be sitting here for the next several days and just fly
6 back? You know, will they even (audio interference)?

7 DAVE SKEEN: Yeah, good question. I mean,
8 you can't help people if they won't take help. Right?

9 JOHN MONNINGER: Right. Right. And,
10 okay, so, so that's, you know, a summary of the spent
11 fuel pool.

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And I, I talked to the guys, you know,
tonight about, what do you want me to do with this
list? I mean, you see where we are on the pumping
system, and we have all you guys at Headquarters

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1 working on this pumping system, and I know Bechtel's
2 been involved in it, INPO's been involved in it, and
3 GE's been involved in it. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 But, you know, so I'll move onto another
14 topic. We also, or myself and Jim Trapp, we went to
15 the Tepco building. We eventually went to the Tepco
16 building when there was the final request to have us
17 embedded within Tepco. They, they took us to their
18 emergency command center, which we were thinking would
19 be something akin to NRC's ops center or a licensee's
20 EOF or something like that. This place was massive.

21 I mean, it was massive. I mean, they
22 probably have the center where all the decisions are
23 making, probably 20, 30 individuals around it, and it
24 just tiers out with rows and rows and rows of tables
25 with engineers or, you know, support help, whatever.

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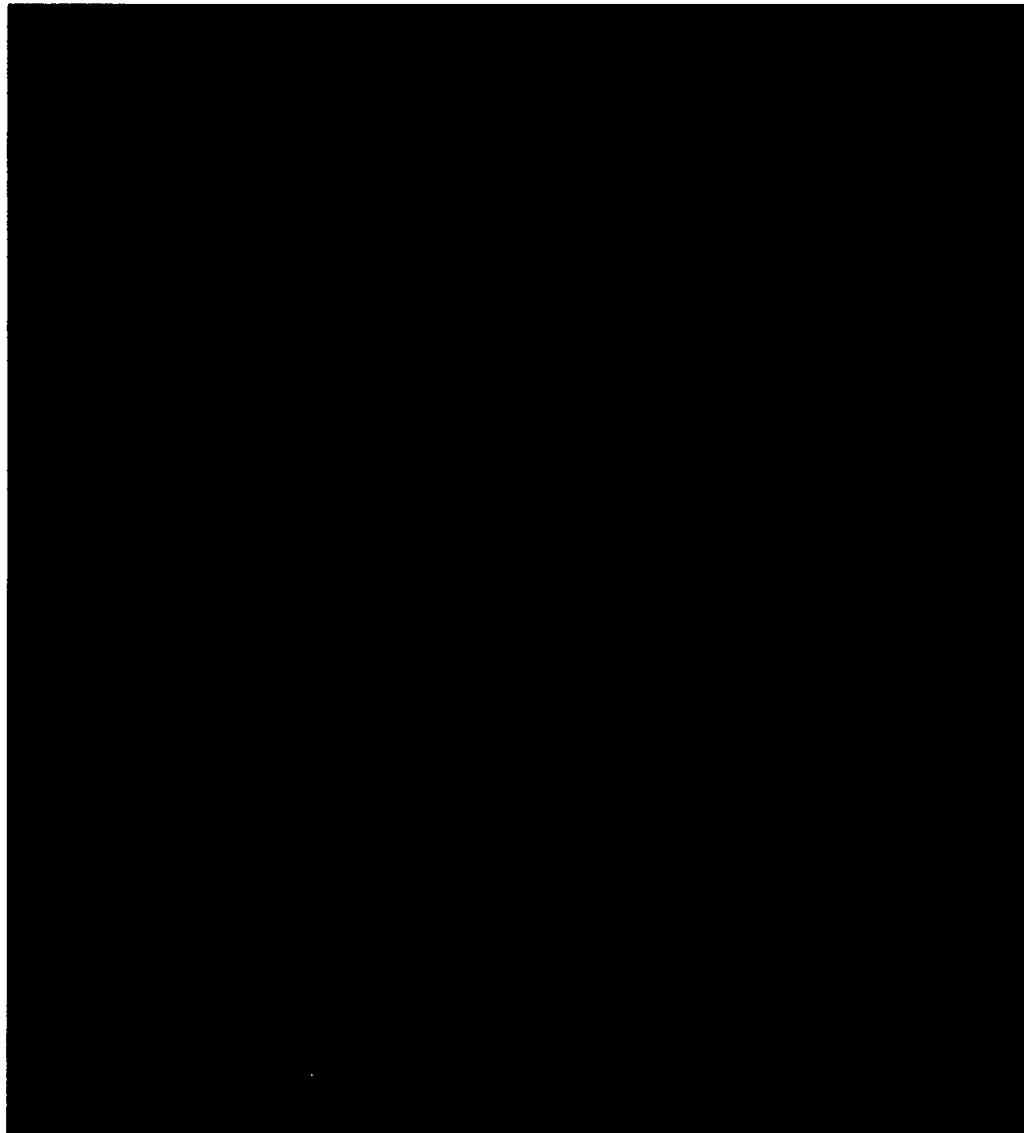
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1 And then behind that, teams of people working on
2 projects, issues, whatever. There's probably 250, 300
3 people in that room.

4 Then they took me to at least one floor on
5 the, in the Tepco building. It was a Saturday, and
6 they were, you know, there were a lot of engineers
7 running all over the place. They had these breakout
8 rooms. You know, lead for that issue, lead for this
9 issue, lead for that issue.



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1 So, you know, Tepco did not want to talk
2 to us. It wasn't until probably past day and a half
3 that we just started having our first interactions
4 with Tepco, and actually, they significantly
5 increased, but -- you know, they've increased by
6 orders of magnitude [REDACTED] [REDACTED] [REDACTED]

7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 BRIAN SHERON: Well, yeah, that sounds
12 pretty obvious.

13 JOHN MONNINGER: Yeah.

14 BRIAN SHERON: I mean, I won't speculate
15 at this point why, but --

16 JOHN MONNINGER: Yep. Yep.

17 BRIAN SHERON: You know, I mean, we just,
18 we do the best we can.

19 JOHN MONNINGER: Yeah. So, yeah, I mean
20 it's, we would have loved for all four systems to come
21 into the country and to be used and to be effective,
22 but

23 DAVE SKEEN: Well, John, our understanding
24 is that the second system is headed your way tomorrow
25 about the same time as this one today, so --

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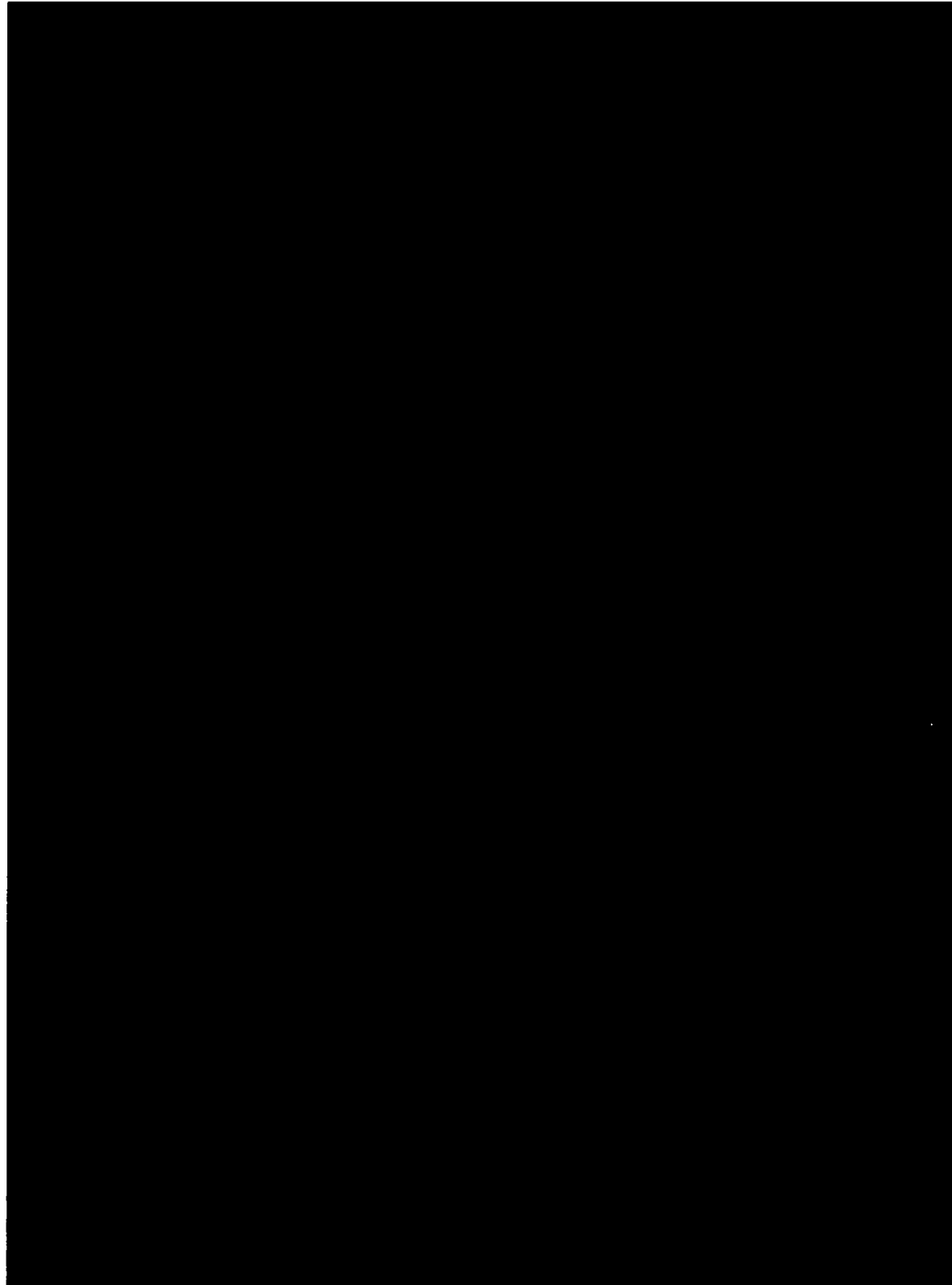
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1 JOHN MONNINGER: I would, I would put that
2 at highly unlikely; it could be. So the question is,
3 was an earlier flight for the second system scheduled
4 for that time, or was the go-ahead?



25 [REDACTED] So, you know,

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1 with that, [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]

9 DAVE SKEEN: Okay.

10 JOHN MONNINGER: So we've got, we've got
11 to get it into the country, and hopefully they'll look
12 at it and say, ah, we need that.

13 DAVE SKEEN: Yeah, I think the Bechtel
14 system, even if you use a concrete pumper truck to
15 boost your --

16 JOHN MONNINGER: Yeah.

17 DAVE SKEEN: -- and whatever, (inaudible)
18 fire cannon and hook it into the concrete pumper
19 truck. So it's going to get you the capacity that you
20 need.

21 JOHN MONNINGER: Right. Right.

22 So, so Chuck has had two meetings with the
23 CEO, the CNO of Tepco. Yesterday, he, the CEO, the
24 CNO told Chuck, the two areas that are most concern to
25 him, where he really needs the most help with, is this

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1 issue of salt accumulation in the reactor and help
2 with determining what the hell they should do with
3 the, with their radiation fields on site. So that
4 went to Chuck --

5 BRIAN SHERON: John?

6 JOHN MONNINGER: Yo.

7 BRIAN SHERON: One of the questions I've
8 been asking, and I think everybody's scratching their
9 head, and that is that they've found a way to pump
10 seawater into the reactors. Right?

11 JOHN MONNINGER: Yep. Yep.

12 BRIAN SHERON: Well, where are they, where
13 is that hookup from? Where is, where is the function
14 coming from? And can they access it to get to, to put
15 -- if they had freshwater supplies, could they access
16 the suction point and hook up a freshwater supply?

17 JOHN MONNINGER: Yeah, and that's, that's
18 what we said. You know, you just, it's being sucked
19 from the, from the ocean, and they'd never said
20 whether there are stationary diesel pumps down there
21 or if it's a daisy chain of fire trucks, whatever.
22 But, yeah, it's, you just switch the suction. You
23 just pull the hose from that damn source to this
24 tanker over here. You know, so we, it's, it's -- you
25 know, it seems so obvious what the solution is.

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1 You know, and not only that, you know, the
2 thoughts among the team is, you know, so you've had
3 this evaporating for all these days. Well, you once
4 you have the freshwater, you don't want to continue
5 this, the boiling in there if there's a current
6 concern with the salt. Do you want to consider upping
7 the game on the pump and start flushing out the system
8 to start to pleading the salt out of the primary
9 system? And after you've done that for so many hours
10 or whatever, you throttle it back to what, you know,
11 steaming for decay heat.

12 BRIAN SHERON: Right.

13 DAVE SKEEN: Right.

14 JOHN MONNINGER: But, but with that, you
15 know, they told Chuck that's his number one issues.
16 We need help on these two issues.

17 Very shortly after that, went to a meeting
18 with the Ministry of Defense. They wanted a status
19 report on our efforts and recommendations for those
20 two topics. They wanted our assessment for those two
21 topics. We're like, you did guys just informed us
22 that these are two concerns you have. You know, so
23 that was yesterday.

24 Then Chuck met -- there's a problem with
25 the days back and forth there -- but then Chuck,

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1 probably about 18 hours later, 12 hours later, met
2 with the CEO and the CNO and he said, we are in need
3 of significant dire help on these two issues.

4 So, Chuck is, five seconds before Chuck's
5 strolling in, the lead engineer, or my interface from
6 Tepco, has me on the phone. How quickly can I come
7 down here to discuss these two issues? And Chuck's
8 like, you've got to get down there. We've got a be
9 working on these issues. You know, if the CNO is
10 pushing, they have to know something. If their CNO is
11 pushing us, actually asking for our help, they have to
12 know something. It has to be more severe for them to
13 really be (inaudible).

14 So I'm arranging these meetings with these
15 guys. I called back to Jennifer.. I get Jennifer to
16 get, you know, so this is Sunday night, midnight --
17 Saturday night, midnight for you guys -- Sunday night
18 midnight, 1:00 a.m., 2:00 a.m.

19 DAVE SKEEN: Right.

20 JOHN MONNINGER: I get Jennifer to get all
21 these guys from GE, Exelon, INPO, et cetera on the
22 phone for this discussion on salt. What the hell
23 should we do with it? We get in the meeting and, and
24 got all Jennifer's team on the web, and what do they
25 want to do? They want to talk about the pumping

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1 truck. That's when we get the 20 questions on the
2 pumping system. You know?

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5 BRIAN SHERON: All right.

6 DAVE SKEEN: All right. So, John, you say
7 you going to try to set up another call to talk about
8 salt, maybe tonight on the midnight shift again?

9 JOHN MONNINGER: I have told those guys,
10 we are ready. We will meet with them whenever you
11 want, anytime you want. I've said we would get the
12 people back in Washington on the phone because we can
13 always pull the Reactor Safety Team in. Whether we
14 can get the expanded team with INPO and all that kind
15 of stuff, you know, who knows? But I said any time of
16 day, we will come down to your building. We will meet
17 anyplace you want. You know, I'll let you know.

18 DAVE SKEEN: Okay.

19 JOHN MONNINGER: I mean, yeah. The other
20 thing is we go down to the meetings now. We have to
21 take the taxi cab into the basement garage. There's
22 huge protesters, cameras, cops surrounding the Tepco
23 facility.

24 (Off-mic conversation.)

25 JOHN MONNINGER: So, so that's where we

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1 are.

2 We agree with your concerns with the Unit
3 4 spent fuel pool, but right now, our equipment,
4 there's too many uncertainties to, to say go forward
5 with the other three trains.

6 DAVE SKEEN: Okay. Well, we'll go take a
7 look at the, how can we use the Bechtel system to tie
8 into a concrete pumper truck. I really don't think
9 that's going to be a big concern because we were tie
10 into a fire, rocket launcher anyway.

11 JOHN MONNINGER: So, yeah, and they're
12 like, how do you do that? How do you do that? I say,
13 you put a freaking T in the system. It's a pipe.
14 It's no big deal. I said to them, this, this system
15 is nothing. This is basic hardware; this is basic
16 piping. There's nothing commercial grade here. It's
17 just industrial piping.

18 DAVE SKEEN: Have you seen a copy of the
19 Bechtel system? I mean, they, they made a little
20 engineering drawing of the whole system tied together.
21 Did they send that to you?

22 JOHN MONNINGER: There, so there was, I
23 think that was maybe -- I've seen three different
24 renditions. There was the original Joe Williams
25 cartoon of it.

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1 DAVE SKEEN: Yeah.

2 JOHN MONNINGER: Then there -- yeah, then
3 there was one, there was actually a, a spec sheet, you
4 know --

5 DAVE SKEEN: Right. (Inaudible) drawing,
6 yeah.

7 JOHN MONNINGER: Yeah. Yeah. The
8 Engineering drawing, yeah. We had that out. We have
9 shared that with them, et cetera. But they, when they
10 came to us, you know, today in the meeting with Tapco,
11 they said, they're talking, you know, this boom truck,
12 boom truck; 58 meters.

13 Well, what happened is they, you know,
14 they were like can this shoot up 50 meters versus 58?

15 I said, well, yeah, it's no big deal. I said we'll,
16 we'll check into it, but the design specs for the
17 water cannons were 50 meters high and, I think, 100
18 meters out with 500 GPMs. I said, you know, if you're
19 not telling us the 58, we think we'll be able to
20 throttle the nozzle down to reach the 58 meters.
21 We'll have Bechtel and all run it down. But you may
22 not get 500 GPMs in there. But we said, we through a
23 margin in there anyway, so we said we didn't think it
24 was an issue.

25 But the whole issue with the 50 versus 58

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1 wasn't for the fire rockets to reach that high. It
2 was what they said they believed we were bringing,
3 that they said they believed was on this flight from
4 Australia, these super concrete pumping agitator
5 pumps. They said, no, that was your system. There
6 was, that was one of the options in the Bechtel
7 drawing, but all of our discussions with you have been
8 on the fire rocket system.

9 They said, well, no, we had believed you
10 were bringing the concrete pumping truck. I said you
11 already told us you guys have two of them in Japan.
12 So.

13 DAVE SKEEN: Okay. Well, do the best you
14 can. It's frustrating. It's frustrating for you.
15 It's frustrating for us on this end too, so we
16 understand.

17 JOHN MONNINGER: Yeah. Well, they got --
18 you know, maybe it will help. Supposedly, a guy from
19 Naval Reactors was going to show up here yesterday. I
20 assume he's going to be stationed here at the Embassy.

21 I really do believe it will be better when, you know,
22 once he's, you know, potentially embedded -- I'm not
23 sure if he'll be embedded with the team -- but when
24 he, they can have more direct access to us. We can
25 then -- and they can really understand the situation

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1 on the ground.

2 I think it will alleviate, you know, some
3 of the confusion or mixed messages, you know, back
4 over there.

5 DAVE SKEEN: Yeah, I guess you're right.
6 That would help.

7 JOHN MONNINGER: Yeah. The meetings we go
8 -- yeah -- the meetings we go to, you know, a lot of
9 them, we're, well, the ones we go to, we're the lead
10 with the NRC: But you've got a huge contingent of
11 people from the Department of the Defense going with
12 us, Air Force, Navy. You know, DOE guys are following
13 us around, you know, whatever. It, it's actually
14 pretty good to have us all in the same room there.

15 So, and the DOE guys, they're filling
16 detail reports, you know, summarizing all the
17 interactions and shipping it back to, you know, to
18 their people in Washington.

19 DAVE SKEEN: All right. Well, I'll let
20 you get back to whatever you're doing there, John.

21 JOHN MONNINGER: All right. I'm getting
22 ready to jump in the shower.

23 BRIAN SHERON: Okay.

24 JOHN MONNINGER: I mean, it's, besides the
25 ops center, is the normal staff working weekends?

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1 FEMALE PARTICIPANT: No, but the ops
2 center's got like 40 people in it around the clock,
3 so, you know.

4 JOHN MONNINGER: Yeah.

5 DAVE SKEEN: If we know if we need
6 something, if we need seismic or mechanical or
7 structural, people will come in when we need them, but
8 --

9 FEMALE PARTICIPANT: Yeah, we have staff
10 on call. We have all the experts on call.

11 BRIAN SHERON: You know, when I'm not in
12 the ops center, John, I'm sitting out, I'm on a team,
13 I'm one of four guys right now who goes around
14 briefing congressmen and congressional staff and Lord
15 knows who.

16 JOHN MONNINGER: Right. No, the reason --
17 and actually, we've gotten phenomenal support from you
18 guys. I mean, all my interactions have been dealing
19 with the ET or the Reactor Safety Team and it's just
20 incredible support.

21 The only reason I, I was asking is because
22 I get some emails from normal staffers, you know,
23 staffers up in the Chairman's office, you know,
24 working on various issues and they're not, you know,
25 and I wasn't sure if the entire agency is operating

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1 because I'm getting these normal emails not on the
2 Japanese issue over here but just on normal business
3 stuff.

4 BRIAN SHERON: Well, obviously, there's a
5 lot of -- I mean, there's normal business going on.
6 We haven't shut down or anything.

7 JOHN MONNINGER: No, I'm in over the
8 weekend. Over the weekend. I'm getting --

9 FEMALE PARTICIPANT: No, but it's at
10 least, we're having like two, twice-a-day briefings
11 with like all the TAs and all the EDO staff and stuff.

12 So people who might not otherwise be thinking about
13 work are talking to us at last twice a day too, so I
14 think that might be part of it too, you know, from our
15 perspective.

16 JOHN MONNINGER: Right.

17 FEMALE PARTICIPANT: So we've (inaudible)
18 out to everybody most of the day, so I think that's
19 sort of some of the other email traffic.

20 JOHN MONNINGER: I mean, yeah. Yeah. I
21 mean, I don't want, I don't want to send any messages
22 that would alarm people, but, you know, if there were
23 any insights out there as to what would happen if, you
24 know, the spent fuel pool does go through on the
25 floor, you know, those insights would be interesting.

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1 We'd have to be extremely careful because,
2 you know what's below the spent fuel pool. Right?

3 BRIAN SHERON: Yeah, the torus.

4 JOHN MONNINGER: The torus. The torus.
5 And you're going to lose all that.

6 So the biggest thing is what we really
7 think the source term would be. If they're going to
8 have a considerable source term release just from the
9 destructive forces of everything flying, you know,
10 what would it do to the access to the site?

11 DAVE SKEEN: Hey, John, one question on
12 the source term on that, on 4, do we know when they
13 offload the core, do they offload it in a checkerboard
14 pattern in the spent fuel pool like the US does, or we
15 have no idea? Would Tepco have that information they
16 could provide us?

17 JOHN MONNINGER: With, without a doubt,
18 Tepco has that information. Can we get it is, is very
19 uncertain. Whatever the, the, however they loaded it,
20 they are saying they need 72 tons of water per day in
21 that one for evaporation losses. So that's the one
22 that needs the highest capacity a day, 72 tons of
23 water, versus Unit 2 spent fuel pool at 20 tons a day
24 versus Unit 3 at 10 tons a day versus Unit 1 at five
25 tons a day.

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1 So whether that's in a checkerboard
2 pattern or what, that gives you some insight on, on
3 the water pool.

4 DAVE SKEEN: Yeah, the only thought was,
5 we were talking about this the other day. And if it
6 were a checkerboard pattern, you know, it may help
7 determine whether you would have a zirc fire or
8 continue on the loading of how they did, they did the
9 pool, did they put all the hot fuel in one corner?
10 Did they spread it out among the cold fuel? That was
11 the discussion we were having here, so I was just
12 wondering if they had that information.

13 It sounds like it would be hard for you to
14 get that kind of information for us.

15 JOHN MONNINGER: It's easy for us to ask
16 it, but it's whether we'll get something back. Let me
17 write that down and we'll take it and see if we can
18 get something.

19 MALE PARTICIPANT: Yeah, if there's
20 anybody there could tell you, that would be helpful.

21 JOHN MONNINGER: Okay. Our team of two
22 guys were asking, we were talking about it yesterday
23 and we were trying to figure out whether they might
24 know.

25 LARRY GELDENBERG (phon): Hey, John?

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1 JOHN MONNINGER: Yeah?

2 LARRY GOLDENBERG: Larry Geldenberg. How
3 are you doing?

4 JOHN MONNINGER: Good. Good. How are you
5 doing, Larry?

6 LARRY GOLDENBERG: Okay. Thanks for the
7 briefing. Very thorough. Listen, we're sitting here
8 talking about this situation you're describing in Unit
9 4, the spent fuel pool, spent fuel cooling into the
10 core and all that.

11 JOHN MONNINGER: Right.

12 LARRY GOLDENBERG: We did an analysis
13 called Super Core, and I'm just talking to Don Cool
14 here, who's my PMT director at the moment. And, you
15 know, listening to this conversation, he believes
16 these assumptions that you're (inaudible) with are
17 consistent with those in the super core analysis. So
18 we have some idea of what the doses would be. I'll be
19 honest with you, they'd be very high.

20 DON COOL: The calculation that we did --
21 this was the calculation done back on Wednesday with
22 everybody grumbling at us about, oh, you're being
23 unrealistic, you're crazy, why don't you do 100
24 percent of the fuel in pool number 4 being melted?
25 But that sounds like what you're describing to me.

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1 Now, maybe we don't (inaudible) some of
2 the other components.

3 JOHN MONNINGER: Right.

4 DON COOL: But the component of Unit 4
5 that we included was 100-percent fuel destruction on
6 the Unit 4 pool if the pool was right, so you'd have
7 an unfiltered, unfiltered release.

8 JOHN MONNINGER: Right.

9 DON COOL: And then we assumed you had
10 50-percent damage on the Unit 2 spent fuel pool and
11 then we had 33 percent of the Unit 2 reactor core with
12 some things.

13 So we might back out a couple of those
14 components, but what you're telling me is that the
15 assumption on 4, unfortunately, it's still too close
16 to real.

17 JOHN MONNINGER: Well --

18 DON COOL: I didn't, and I didn't hear all
19 the conversation. I walked in towards the end of it.

20 JOHN MONNINGER: There, there is no
21 information that we have been given that gives us a
22 clear assessment or insights on water levels in the
23 unit. The best thing you see is the steaming on TV.

24 DON COOL: And no steam on 4?

25 JOHN MONNINGER: No steam on 4. And they

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1 had, they had said, you know, several days ago Unit 3,
2 they believed, was dry back on March 18 -- actually,
3 prior to March 18 -- but actually March 18 out here in
4 the morning, you know, which is about 48 hours ago,
5 has been dry.

6 DON COOL: As of 48 hours ago?

7 JOHN MONNINGER: Greater than 48 because
8 that's when they would have told us. NO.

9 DAVE SKEEN: And that's why they wanted to
10 spray Unit 3, because they thought it may have been
11 dry?

12 JOHN MONNINGER: Right.

13 DAVE SKEEN: But what they don't say
14 anything about is there's been no steam off of Unit 4
15 for days.

16 JOHN MONNINGER: Right. Right. And
17 they're, they told us that they're working Unit 4
18 also, you know, with the fire trucks and the spray
19 systems, et cetera.

20 But the big thing is, you know, they can
21 work them but they're not very effective. I mean, so
22 that's why they, they've finally come to the
23 conclusion that the success path is this concrete
24 auger truck that has the hose directly over top of the
25 spent fuel pool. You know, I mean, they can shoot

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1 tens of tons of water per hour, but if only five or 10
2 percent is getting in there, it's going up
3 (inaudible).

4 Well, one of the concerns is they turn the
5 site into a swamp, but the other is just the
6 contamination and the runoff from all this water
7 that's not going into the spent fuel pool.

8 DON COOL: Well, if those pools are dry
9 and they go to spray water down on top of spray water
10 down on top of them, think of the steam and what
11 you're going to release when you start hitting that
12 dry fuel.

13 JOHN MONNINGER: Yep. Yep.

14 DON COOL: You may get rad fields so high
15 that they can't even use the pumper trucks.

16 JOHN MONNINGER: Right. So I, I think --
17 you know, I mean, Japan, they, they for years have had
18 a very good, you know, nuclear industry base, a very
19 good nuclear research program, safety program, et
20 cetera. My belief is they know all these issues. [REDACTED]

21 [REDACTED]
22 [REDACTED]
23 [REDACTED] They just haven't figured it all out yet, and
24 they're waiting until they figure it all out before
25 they were really let people know. That's my, my

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1 assessment.

2 DAVE SKEEN: Okay. John, let's let us let
3 you go get a shower and get ready for the day. Don
4 and I are going to go talk about this a little bit on
5 what we think the Rad levels might be if it melts
6 through.

7 And maybe if we -- you get with Chuck, and
8 if you guys get a chance later to talk, maybe we can
9 get back on the phone with you. Do you think you get
10 a chance to do that?

11 JOHN MONNINGER: Yeah. But we've got to
12 be very careful with that because we got in trouble
13 before by passing up that information saying our
14 assessment was that Unit 4 was dry because the wall's
15 been knocked out. And then there was a big issue in
16 the press and in the papers, the disagreement between
17 the United States government and the Japanese
18 government and the status of the reactor. I mean that
19 issue, you know, it is a major issue in the press.

20 And then, every single meeting we went to
21 with the Japanese, they just grilled us nonstop on the
22 issue. And then, meeting after meeting, we would say,
23 you know, the basis for that was we were assuming that
24 wall was coming out. We understand that is not the
25 case. [REDACTED] [REDACTED] And five

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1 minutes later, during that meeting, a different senior
2 official would ask us the same damn question.

3 DAVE SKEEN: Yeah. Well, I'm still going
4 to go back to we haven't seen any steaming coming out
5 of Unit 4 since early in the event, which leads us to
6 believe that there's no water there to steam.

7 JOHN MONNINGER: Yep. We agree with you.
8 So the only thing I'm saying is, you know, we would
9 be interested in the calculations but we've got to be
10 extremely careful what we do with them.

11 DAVE SKEEN: Yeah. We'll leave that up to
12 you, but we'll get that information for you guys to
13 have in your pocket anyway.

14 JOHN MONNINGER: Yeah. Yeah.

15 DAVE SKEEN: All right. Thanks, guys.

16 BRIAN SHERON: Thanks, John.

17 DAVE SKEEN: Thank you.

18 JOHN MONNINGER: Good bye.
19
20
21
22
23

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1 (CONFERENCE CALL INITIATED.)

2 02:12:51/02:37:55

3 (Standby.)

4 (Roster playback.)

5 BRIAN McDERMOTT: This is Brian McDermott.

6 I joined the bridge it separately.

7 JIM WIGGINS: Good morning. Jim Wiggins
8 from the ET room. Just a quick update. Nothing
9 negative actually happened over the night. There's a
10 real positive statement for you.

11 Things, conditions seem to be fairly
12 stable in Units 1, 2, and 3 at least in the reactors.

13 Five and 6 have been stable all along, so there isn't
14 much exciting going on there.

15 For Unit 3 and Unit 4, it's still, they're
16 still adding water or trying to add water to the
17 buildings where the spent fuel pools are, the spent
18 fuel pools are. It's arguable how successful they've
19 been in doing that. The Tepco people using a water
20 cannon approach on Unit 3. You get different views
21 about its effectiveness. We haven't confirmed that
22 that's actually been effective in adding any
23 appreciable amount of water to the pool area. What we
24 can see in visual is a spray that moves toward
25 building.

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1 We should start seeing the Ministry of
2 Defense folks and Self-Defense Forces resume adding
3 water to the Unit 4 reactor building area later today.

4 A tertiary supply for water, the so-called
5 Bechtel system, is, remains in an airplane in Perth,
6 Australia. Some type of logistical issues associated
7 with, I guess, the load-out of it are impeding its
8 leaving Perth. We had an issue yesterday to solve
9 that had to do with how much it cost, and that got
10 worked through last night through another source of
11 funding, not NRC but another source of funding at
12 least one train of this Bechtel lashup.

13 So we would expect, Bechtel expects the
14 plane to take off somewhere this calendar day, maybe
15 within the next 12 hours or so. It would have to
16 arrive in Yakota and get picked up by the defense
17 forces, and they have to get it to the station.
18 They'd have to get it erected. There's some training
19 necessary in order to assure that the forces are able
20 to use this. The, the equipment is coming along with
21 two techs -- two techs are accompanying the equipment;
22 I guess maybe I should put it that way -- to assist
23 the forces in how to set it up and get it working.
24 That's still, that's still in progress.

25 The Reactor Safety Team and the Site Team

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1 in Japan and Tepco and some others were talking last,
2 through the evening about some concerns Tepco has that
3 are basically how you set conditions in the facility
4 via this system. Things like how stable does the
5 ground need to be? How to put in pumps? Things like
6 that. So that's, that's -- and they may need some
7 other equipment, like a crane or something like that.

8 That's still working on the Japanese end.

9 Tepco is making progress in getting power
10 back to the facility. Yesterday, they got power into
11 Unit 5 and they were able to start an RHR pump in Unit
12 5.

13 They, their priority now is getting --
14 they got a line into Units 1 and 2. They're going to
15 see what they can get out of that, and they're going
16 to run cables to 3 and 4 and see what they can get out
17 of that. We don't want to put too much hope in those
18 things because you may be able to get power to the
19 building, but particularly when you talk about 3 and
20 4, with a lot of the destruction in the building, it's
21 not clear what is usable in the building. There is
22 some hope, though, that the power might at least
23 provide some additional instrumentation and get a
24 better look at what's actually happening. More to
25 come on that as the days move on.

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1 We got some dose rate information. We got
2 this from NEI, so this, there appears to be some
3 pretty reasonable industry connections that we've been
4 able to get some information from. They're reporting
5 dose rates around the facility are generally trending
6 down. So the measurements at the gate area and things
7 like that are all dropping.

8 In terms of the off-site, we've
9 constructed a, a source term with some assumptions
10 that are, are being run that right now by NARAC, and
11 it's responsive to the White House request that
12 followed the president's speech in the Rose Garden the
13 other day. There, there was a request for a, a
14 worst-case run. So we've agreed on what worst-case
15 means. We have a source term that both DOE, NARAC,
16 and NRC agreed to, and that's being run now. The
17 intent is to get the results and send it up to the
18 White House. [REDACTED]

19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 I believe the president's statement was
25 more general, like, I wouldn't expect levels -- he

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1 didn't say you would get nothing. He said that you
2 wouldn't get levels that would be harmful, more along
3 that area. So I, I think that this should come out
4 okay in that regard.

5 The weather is, the wind direction is
6 changing. It's moving down towards south. It had
7 been to the Southwest, so we're going to keep an eye
8 on that. That was part of a forecast that we knew as
9 early as yesterday that the wind direction was moving
10 down towards the south.

11 We're continuing to support our guys in
12 Japan. The principal focus of the discussions has
13 been on this so-called Bechtel system and the
14 logistics and the setup required for that. There's
15 also been a couple of the questions -- it looks like
16 Tepco's been interested in enlarging the hole in the
17 Unit 2 secondary containment, and our guys are working
18 on a request from Tepco to figure out a way to enlarge
19 the hole without causing sparks and things like that.

20 So they're looking at some potentially other ways of
21 cutting. I heard tell of a water jet or something
22 like that. But that's being worked.

23 And we had a meeting yesterday with a
24 number of industry representatives to look at the
25 standing up of an industry consortium, is how it's how

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1 they're being referred to, that would provide an
2 industry-to-industry support to the Japanese.

3 That meeting seemed to be viewed as
4 successful from our side. It does look like there is
5 some interest from industry in doing this,
6 particularly out of INPO. And it looks like INPO is
7 taking or trying to take a, a lead role in the,
8 organizing this consortium activity. If that could
9 come to fruition, it would be helpful because it would
10 actually put people who are in, who are experienced in
11 implementation of things in the field and engaged.

12 We do a good job about reviewing
13 engineering and deciding whether it's safe or unsafe,
14 but where a little short on skills when it comes down
15 to logistics and actually what does it take to put
16 this stuff in place. So that would be a good, a good
17 addition to the overall US strategy to help, to help
18 Japan get, get out of this situation or at stabilize
19 it.

20 And that is it for this morning. Any
21 questions?

22 MIKE FRANOVICH: Jim, this is Mike
23 Franovich. Good morning.

24 JIM WIGGINS: Hi, Mike.

25 MIKE FRANOVICH: I've got one question on

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1 Unit 3. We're hearing some reports about, the
2 containment pressure has been going up and Tepco has
3 been interested in venting the containment. The
4 pressure supposedly is near 50 pounds, but it's, they
5 apparently have a need or some urgency to vent. Do we
6 have any more on that?

7 JIM WIGGINS: I think we, I don't know
8 where, where -- what's your sources so we can check
9 the sources?

10 MIKE FRANOVICH: This morning, it was
11 reported on NHK News directly from Tepco, and it
12 wasn't clear why they, why they need to vent other
13 than the mention about pressure. So --

14 JIM WIGGINS: Yeah, we have heard
15 something of that too. The Safety Team is on that,
16 you know, checking that out.

17 MIKE FRANOVICH: Yeah, it would make
18 sense, because of the weather conditions, that you
19 wouldn't want to vent at this time, but --

20 JIM WIGGINS: That's, I don't, we could
21 get into a debate on that. Right? It depends on the
22 pressure. It depends on why they're doing it. You
23 have to decide whether you want, can you save the
24 containment or whatever. But probably more to come.

25 MIKE FRANOVICH: Exactly.

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1 CHRIS MILLER: There's also a news -- this
2 is Chris Miller -- there's also a competing news
3 source that's saying that they've decided they didn't
4 need to vent. And so we're still trying to track down
5 the ground truth on what they're doing over there.

6 MIKE FRANOVICH: Right. Thanks, Chris. I
7 appreciate that.

8 CHRIS MILLER: Sure.

9 JIM WIGGINS: It's, it's been a continual
10 struggle, Mike, through this whole evolution. Part of
11 it is somewhat connected to the time difference when
12 we can actually get to our people. It's not the same
13 as, as the, it's not the same emergency response that
14 we drill. You know, typically, even if you have three
15 time zone differences, you're still in the same
16 ballpark. But having people awake and asleep on
17 different cycles impedes our ability somewhat to
18 communicate the team. It forces us either to do work
19 on night shifts or wake up the team.

20 We've also had continual challenge getting
21 reliable information from Tepco over the course of
22 this. That's why it seemed to me pretty interesting
23 that NEI has been able to get stuff. They may be
24 using some type of an industry connection that is,
25 that the spigot is further open on than for us. You

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1 know, we, we might be hearing something from Tepco or
2 getting stuff from NISA, and industry might have a
3 more direct route. So we'll see that where that comes
4 up.

5 MIKE SNYDER: Jim, this is Mike Snyder.
6 Could you please let me know the dose rates that --
7 you said they were lower at, at the gate. Do you have
8 what those lower rates are on that?

9 JIM WIGGINS: All I have is what NEI is
10 reporting. It's very important to understand that
11 this is from NEI. I'll just read you this paragraph
12 about it.

13 "NEI reports that dose rates around the
14 Units 3 and 4 are reducing. It was 40 REM per hour.
15 It's now 15 REM per hour around the units immediately.
16 Dose rates around 5 and 6 are about 100 MR/hour.
17 Dose rates near the power block range from 1 to 5
18 R/hour. The site access gate was reading 60 MR/hour,"
19 which is about 4,000 feet from the plant.

20 "Winds continue to blow from the
21 northwest, so the plume is going up to sea." So, as
22 we said, that's swinging around. "A dose rate was
23 recorded to be 12 MR/hour at 0.20 kilometers inland
24 from the plant. All other dose rates 20 to 40
25 kilometers from the plant are marginally above

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1 background." That seems to work with our aerals too.

2 So, and there was a report of low-level
3 radioactive materials detected in spinach and milk,
4 depending on wind direction.

5 MIKE SNYDER: Thanks, Jim. That sounds
6 really helpful. I saw from this morning's updates
7 that, that I guess you got -- this talked about that
8 there was a higher level in the northwest quad, then
9 --

10 JIM WIGGINS: Yeah. At the beginning of
11 the event, the wind was blowing toward the northwest.

12 So, if you look at the AMS, the aerial monitoring
13 system stuff, you see this pattern of higher, higher
14 deposition essentially going northwest from the
15 facility. But, you know, when the winds screwed
16 around a blew westerly, it started blowing offshore
17 and that stopped.

18 Yeah, that, that's how I understand,
19 that's what the PMT people said has been going on over
20 time. So what you see up in the northwest is a result
21 of the initial part of the event.

22 MIKE SNYDER: And on last night's phone
23 call, they said they were hoping to get some more data
24 from the DOE. There, I guess there was supposed to be
25 another flyover yesterday, which was last night our

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1 time. Do you think you can, I guess -- confirming
2 those dose rates or, or it's slightly lower too?

3 JIM WIGGINS: PMT says we haven't gotten
4 additional information yet. We'll check it out.

5 MIKE SNYDER: That, that would be great
6 for this evening's call because, if you could get
7 that, that's something my Commissioner was asking
8 about.

9 JIM WIGGINS: I think, yeah, but you
10 should certainly alert your principles about the wind
11 change. That's something they need to be, need to be
12 cognizant because that, you know, for a large part of
13 this event, it's been blowing offshore.

14 MIKE SNYDER: Right.

15 JIM WIGGINS: So now that things are
16 changing a bit, let's see what the effect is.

17 Luckily, though, I think the, there's not
18 a lot of motive force for the release now. Things
19 are, you know, substantially calming down. Nothing's
20 blowing up a steaming as we speak.

21 MIKE SNYDER: Yeah. I guess, then, as
22 Mike brought up, there may be a potential that there
23 may be some venting today on Unit 3.

24 JIM WIGGINS: Yeah. Yeah, I think if they
25 were our licensee, you would go through am, their

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1 severe accident management guidelines. And you would
2 at some point vent when you have problems, you know,
3 if you decide to vent to save the containment, rather,
4 do it in a controlled way to stop it, rather than have
5 the containment fail in an uncontrolled way and you
6 can never stop it. That's generally, as I understand
7 it, the management guidelines approach.

8 I don't know that Tepco has in mind.

9 MIKE SNYDER: Thanks, Jim.

10 LARRY CAMPER: Hey, Jim, Larry Camper.
11 Good morning.

12 JIM WIGGINS: Hey.

13 LARRY CAMPER: Yesterday afternoon, on
14 this wind issue, the forecast was for it to go
15 clockwise blowing south, perhaps southwest, but then
16 there was a 12-hour cycle and it was supposed to go
17 out to sea. Is that still the same?

18 JIM WIGGINS: Do you know about that?

19 FEMALE PARTICIPANT: We just, we have
20 information on the wind forecast at Fukushima. It's
21 beyond shore. Wind direction is primarily from the
22 southeast between 7:00 a.m. and 7:00 p.m. today. So
23 it appears that it's moving -- it's going towards the
24 south currently, but it's on shore during the day and
25 off shore at night, so it's alternating.

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1 LARRY CAMPER: Yeah, I thought it was
2 going to cycle back around for 12 hours and then go
3 back to sea. I was just curious.

4 JIM WIGGINS: Yeah, it sounds like what's
5 happening, Larry.

6 LARRY CAMPER: Um-hmm. I --

7 JIM WIGGINS: You know, like yesterday,
8 you should have fixed while you were here.

9 LARRY CAMPER: I'll try to do it today.
10 Okay?

11 MALE PARTICIPANT: Okay. Not from a
12 remote control. You have to be on watch.

13 LARRY CAMPER: Thank you.

14 JIM WIGGINS: All right. Anything else?

15 PAT CASTLEMAN: The SITREP says that
16 there's steam coming from Unit 2 secondary
17 containment. It also says that the spent fuel pool is
18 under a hundred degrees C, so it makes me wonder where
19 that steam's coming from. Is it coming from the RCS?
20 Do we have any idea?

21 JIM WIGGINS: We'll check it out.

22 PAT CASTLEMAN: Thanks.

23 JIM WIGGINS: Yeah, (inaudible) update is
24 right. We'll check it out.

25 DAVE SKEEN: There had, there had been

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1 reports of an RCS breach on all three of those units,
2 and it was difficult to get that information. This is
3 from several days ago, so I --

4 JIM WIGGINS: Yeah, but not a containment
5 breach. The only containment problem in Unit 2 is
6 that loud noise down in the torus area that we --

7 DAVE SKEEN: Yeah.

8 JIM WIGGINS: -- it's real speculative as
9 to whether that's actually anything at all. 's,
10 again, we're in this void of information.

11 All right, we'll check. Sometimes these
12 updates, we met some things when we update them.

13 PAT CASTLEMAN: Yeah. The next question I
14 have, where is our team in Japan? Where are they
15 located? Are they all together or are they dispersed
16 in various places?

17 JIM WIGGINS: Who? The Japan team?

18 PAT CASTLEMAN: Yeah.

19 JIM WIGGINS: Well, my understanding is
20 they're all in the Tokyo area.

21 PAT CASTLEMAN: Okay.

22 JIM WIGGINS: I, I haven't heard of anyone
23 taking an excursion up to the facility or anything
24 like that.

25 PAT CASTLEMAN: Okay. And then last

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1 question I have regarding that NEI statement about
2 radiation levels, I've gone on NEI's website. I can't
3 find it. Could you send us the link to it?

4 JIM WIGGINS: This, I got this in an email
5 from this morning from Virgilio, who got it from NEI,
6 so it may not be a link to anything.

7 PAT CASTLEMAN: Oh, okay. Okay. If it
8 would be possible, could we have a copy of that? It
9 sounds pretty comprehensive.

10 JIM WIGGINS: Okay. We'll, we'll work on
11 that.

12 PAT CASTLEMAN: Okay. Thanks.

13 JIM WIGGINS: We'll have to figure out how
14 to -- I've got one sheet here that we can send to, but
15 we'll have to get the liaison people to figure out who
16 "all you" are. But we'll do it. We'll do it. We'll
17 figure it out and forward it to the offices.

18 PAT CASTLEMAN: Okay. Thanks.

19 JIM WIGGINS: Okay? But, yeah, it's got
20 to, this is the best available information, and it may
21 change. We may get more refinement and trying to put
22 enough caveats in here to -- you know, we've got to be
23 careful about swearing on a stack of Bibles about some
24 of this stuff because the sources, the sources are a
25 bit insecure if you know what I mean.

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1 PAT CASTLEMAN: Oh, yeah. Understood.

2 JIM WIGGINS: Okay. But we are hearing
3 from the team, any information that things aren't
4 what, you know, are way different than the
5 understanding -- if you catch my drift -- the team
6 doesn't seem to be raising concerns about Tepco having
7 it way off or anything like that.

8 The last debate had to do with -- and it's
9 almost not a, not a big difference. It's whether
10 there was water, whether there was water in the spent
11 fuel pool in 4 several days ago. When you're talking
12 about water, they're not talking about a full pool,
13 they're about some water.

14 This was around the time when the 5-mile
15 PAR for US citizens came about. We could not, we
16 could, we weren't comfortable taking a position that
17 there was any water in it. And if there is any water,
18 it's so low that it doesn't make a damn difference.
19 So, you know, that's the only real deviation that I've
20 heard through this whole thing that the team has
21 pointed out.

22 So, we'll get you this thing and you can,
23 you can, you can look at it.

24 BRIAN McDERMOTT: Hey, Jim, this is Brian
25 McDermott. I think one of the things that folks are

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1 seeing when they're looking at the status sheet
2 remotely is they say things on here that we've put
3 down, information like from the team, and people
4 should understand, that's what the counterparts on the
5 ground are telling our team. Our team has no way to
6 really validate that information, such as the hundred
7 degrees Celsius. There's no independent element to
8 that information.

9 PAT CASTLEMAN: That makes sense. That's
10 very helpful. Thanks.

11 JIM WIGGINS: All right. Anything else?

12 (No response.)

13 Okay, hearing none, thanks a lot. We'll
14 get this sheet to you guys.

15 MALE PARTICIPANT: Thanks, Jim.

16 JIM WIGGINS: We'll send it at least to
17 the four offices. Okay.

18 PAT CASTLEMAN: Thank you.

19 MALE PARTICIPANT: Eight o'clock tonight?

20 JIM WIGGINS: I presume so, yes.

21 MALE PARTICIPANT: Okay. Thanks.
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1 (CONFERENCE CALL INITIATED.)

2 02:38:29/02:58:02

3 (Standby.)

4 (Roster playback.)

5 BRIAN SHERON: Good evening. This is
6 Brian Sheron from the ET director for the evening
7 shift here. I'm going to go through real quick just
8 an overview of where we are with everything, and then
9 I'm going to let the two team directors give you a
10 more detailed briefing in terms of the work they've
11 been doing. And then we'll open it up to questions.

12 First off, our priorities remain about the
13 same, which is continued assessments of the
14 radiological conditions, dose projections, protective
15 action recommendations going on over there. We're
16 providing technical assistance to the US ambassador to
17 Japan as well as the Japanese government, NISA. And
18 then we're coordinating with a number of other
19 agencies as well as the industry in their initiative
20 to help the Japanese cope with this event.

21 With regard to the status of the units,
22 it's pretty much the same. I'm not going to go
23 through in detail. They've got seawater cooling to
24 Units 1, 2, and 3, the reactors.

25 The spent fuel pool in Unit 1 -- right

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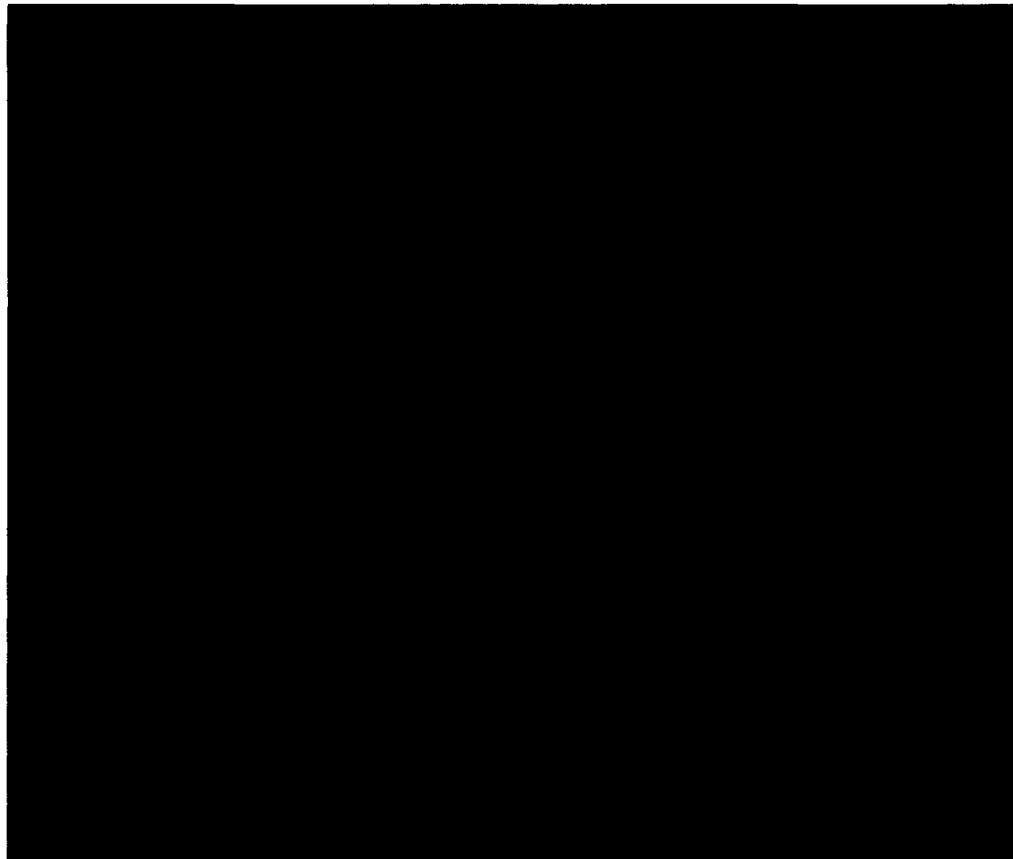
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1 now, we think that there's some cooling going on.
2 They've been spraying water on a number of the units.

3 The pools that we're worried about right now or on
4 Units 3 and 4. In Unit 4, we, we do not see any steam
5 coming off of the pool from the top of the building,
6 which would imply that the pool is dry and there is no
7 water. We just heard on the news that Tepco was
8 focusing now on Unit 4, and I think they had four
9 attempts or something today to put water, to spray
10 water into it.



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23 The utility right now is still trying to
24 hook up electricity, off-site power to the units.
25 They've been working on that. They've got, I think

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1 off-site coming into one side of -- what was it, a
2 switch gear room or something?

3 MALE PARTICIPANT: Yeah, I think so.

4 BRIAN SHERON: But they still need to run
5 some more tests and everything. And it's not clear
6 that the equipment that this off-site power is
7 supposed to energize isn't damaged and whether it's
8 even operable. So there's a big question mark there.

9 Let's see. I think we're, we're chasing a
10 couple items. One is we're, we had got some reports
11 today that there was some contamination measured in
12 Japanese tap water and so we're going to try and
13 contact Jack Foster over with the NRC team in Japan to
14 try and track that down and find out what the details
15 are.

16 And we've got some new AMS data, finally,
17 they came in this afternoon, and Don Cool's going to
18 talk a little bit about that.

19 I think that's probably about it. Let me
20 turn it over to Dave Skeen real quick.

21 DAVE SKEEN: Yeah, thanks, Brian.

22 As Brian said, as far as the status on the
23 plant goes, we think Unit 1, 2, and even Unit 3
24 reactors are fairly stable at this point. It's the
25 fuel pool that we're concerned about on Units 3 and 4.

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1 Unit 3 spent fuel pool has been our
2 priority 1 for some time now. However, it seems
3 they've had some impact by spraying water there for
4 the last few days, and they've now switched over to
5 Unit 4.

6 Unit 4 is probably a close second if not
7 our first priority tea at this point. The spent fuel
8 pools there -- as Brian said, we've seen no evidence
9 of steaming there for some time, and we believe that
10 the event that they had, that they characterized as a
11 lube oil fire in Unit 4 to us, still appears to be
12 more of a hydrogen explosion in that building to, to
13 cause the damage that it did.

14 And so we've asked with the PMT and we
15 worked with them this afternoon. We correlated some
16 data that Don can talk to you a little bit more about.

17 But it seems like there was some material released
18 shortly around this supposed lube oil fire that was
19 reported in, in Unit 4.

20 So it's becoming more of a concern for us
21 at this point. If that's been dry all this time and
22 there's no water there, it, it is a concern.

23 What we're going to try to do over this
24 evening and probably to the midnight shift is look at
25 potential concrete core reaction kind of calculations

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1 to see what that might do if it melts through the fuel
2 pool in Unit 4 and what the consequences that would
3 be.

4 I think Brian did mention when he talked
5 about the pumps from Bechtel, you'll recognize that,
6 as a pumping system that they designed, if it's not
7 single pump, it is three pumps per system. And one
8 system is on the plane, so those are going to leave
9 for Australia at 11 p.m. this evening our time in
10 route to Japan.

11 The plan, at least as far as we've heard
12 so far, was that a second train of cooling systems
13 from Bechtel could be ready tomorrow evening to leave
14 about the same time, 11:00 p.m. There was some
15 conversation with folks on the ground in Japan from
16 our NRC team that said they may not want to ship that
17 one right away. But we said we would leave it to them
18 and the State Department to figure out if they wanted
19 that second system or not.

20 So I think, with that, that's about all
21 from the Reactor Safety Team. I'll turn it over to
22 Don from the Protective Measures Team.

23 DON COOL: From the Protective Measures
24 Team, as was noted a minute ago, we have now gotten an
25 updated plot of aerial measurement data. They have

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1 been flying at least one or two sorties every day. At
2 this point, some 12 flights over the last few days
3 have been taken.

4 So you have lots of cross-links back and
5 forth, both the surfacing pattern and the lat-long,
6 north-south runs. That continues to show a band of
7 higher contamination stretching northwest from the
8 plant with dose levels measured, which would be in the
9 20 to 30 MR per hour range, meaning that the
10 evacuation PAG level of 1 R over four days is exceeded
11 in those areas.

12 There are a few others spots which would
13 have some elevated area, but for the most part, the
14 other ones are at levels which are below any of the
15 protective action guideline's dose rates. So, in
16 essence, the radiological conditions have not changed
17 that significantly the last day or two. Those remain
18 about the same.

19 We understand from the data that we cannot
20 confirm from NISA, reported through DOE, a situation
21 report that some of the dose rates around Unit 3 have
22 come down a little bit, perhaps also supporting that
23 the water they've been spraying on the Unit 3 pool has
24 been helping, bringing it down from -- let me find the
25 right page there -- I don't have that at the moment.

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1 But it's still very significant dose rates, close to
2 300 MR per hour, but instead of 400 MR per hour, 300
3 MR per hour. So it's still a statistically
4 significant drop over that period of time.

5 As was mentioned a minute ago, we are
6 trying to follow-up on double reports, the reports in
7 the media associated with iodine being in the tap
8 water in Tokyo, some iodine in milk samples in some of
9 the areas west of Fukushima, and levels of
10 contamination in some of the spinach. They say that
11 those measurements exceeded their action level, but we
12 don't know what they measured, we don't know what
13 their action level is, and we don't know what their
14 actions are. So we are attempting to follow up on
15 those points to see if we can get a bit more
16 information on that.

17 And that concludes this report.

18 BRIAN SHERON: Okay, so that's our status
19 summary now. So I'll open it up to questions.

20 BILL ORDERS: Brian, are you entertaining
21 questions now?

22 JIM WIGGINS: Yes.

23 BILL ORDERS: This is Bill orders. Just a
24 couple questions. I noticed on Unit 2 that it looks
25 like, containment pressure looks like 1.25 atmosphere.

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1 That would indicate it's intact; right? I would
2 think.

3 DAVE SKEEN: Yes, that's what we're
4 hearing right now, that they do believe that
5 containments are, I mean the primary containments on
6 1, 2, and 3 are intact and holding pressure.

7 BILL ORDERS: That's good news. On Unit
8 4, when they spray, are they getting any steam when
9 they spray, or any water getting in?

10 DAVE SKEEN: We haven't seen any video of
11 what they're doing on 4. I know when they spray on 3,
12 you can see steam coming off, off of there when they
13 were spraying, so we thought that was a good sign.
14 But I haven't seen any video of what they're trying to
15 do on Unit 4 right now.

16 BRIAN SHERON: We don't, we don't know
17 very much about the status is of the pool in Unit 4.
18 You know, as they were saying before, you know, if it
19 went dry -- and Unit 4 had a full-core offload on it,
20 so it was fairly, still fairly hot fuel.

21 If that fuel melted after the pool went
22 dry and started interacting with the, with the
23 concrete on the floor, you know, the worst situation
24 is it goes through, and then it's going to fall down
25 to the rooms below, which is where I think the torus

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1 is. So it's, it's really hard to tell. [REDACTED]

2 [REDACTED] but we can't really discern
3 anything from, from that either.

4 BILL ORDERS: What about the dose rates on
5 4?

6 BRIAN SHERON: I'm sorry. The what?

7 BILL ORDERS: Dose rates.

8 BRIAN SHERON: Oh. We don't have any.

9 DON COOL: We don't have any particular
10 information on Unit 4, so.

11 BILL ORDERS: All right. I'll stop with
12 just one more question. Units 5 and 6, for a while,
13 they were reported as offloaded and now they appear to
14 have cores on board and increased -- well, at least
15 pressure -- inside the vessel. Are we concerned about
16 that?

17 DAVE SKEEN: No. I think, in 5 and 6,
18 they've restored power. Word is they're getting
19 power. And they, they didn't seem to have a problem
20 with either Unit 5 or 6 right now as far as being in
21 danger.

22 BRIAN SHERON: Yeah, remember, they had a
23 diesel on those units, which was powering both 5 and
24 6.

25 BILL ORDERS: When did they get that, I

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1 think was the Unit 6 diesel, when did they get that
2 diesel back in service? I don't recall.

3 DAVE SKEEN: I don't recall either.
4 (inaudible). I can find out, Bill. If you want to
5 know that, I can try to get that.

6 BILL ORDERS: That's okay. If it, if it
7 comes out in another report, that's fine.

8 DAVE SKEEN: Okay. No problem.

9 BILL ORDERS: But we're not concerned
10 about 5 or 6.

11 DAVE SKEEN: Not at this time. I, I think
12 our biggest problem right now is the Unit 3 and 4 fuel
13 pools. And if it's true, what we believe, on 4 could
14 have happened, 4 might be our number one concern, even
15 over number 3 right now.

16 BILL ORDERS: I would think if your worst
17 fears, meaning that the, the spent fuel pool is dry
18 and melted, we would have a big heat force signature
19 and a huge radiation source.

20 DAVE SKEEN: Well, they're getting high
21 rad levels. I mean, you know, again, we don't have
22 specifics other than reports we see coming out of
23 Tepco down there. And they won't tell us the
24 radiation levels. But, yeah, you know, we're just
25 doing the best we can to follow the information we

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1 get.

2 BILL ORDERS: I understand. I'll stop
3 now.

4 MIKE FRANOVICH: Hey, this is Mike
5 Franovich. Just to bring closure to the pool issue on
6 Unit 4, I heard yesterday that the Japanese were doing
7 their own thermal imaging and had done some type of
8 flyover while thermal imaging each of the four units
9 -- I don't think the 5 and 6 were done -- but the four
10 units in question.

11 Are they sharing that info with the
12 in-country team? Are we actually seeing those
13 results, or are we just relying on their summary of
14 it?

15 BRIAN SHERON: [REDACTED]

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

22 MIKE FRANOVICH: Okay. Thank you.

23 BRIAN SHERON: Any other questions?

24 MIKE FRANOVICH: This is Mike Franovich
25 again. Just one more question for Don Cool.

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1 The aerial monitoring that, the data
2 stream that's coming in now, the stream that's coming
3 in, does that capture the time when the wind shifted
4 onshore?

5 DON COOL: Yes, it does. Yes, it does.
6 What we are getting is sort of a continuously built-up
7 accumulation of surveys. So what you have is a survey
8 which shows you the deposition that's accumulated over
9 time. It very clearly has that plume of increased
10 deposition to the northwest of the facility, which
11 correlates, we believe, actually very nicely, to the
12 time of the lube oil fire -- I will put that in
13 quotes; that's what Skeen was saying moment ago -- and
14 the damage at the Unit 4 secondary containment in the
15 spent fuel pool.

16 Without going to too-far speculation at
17 the moment, it would appear that a good amount of the
18 volatile radioactive material that might have been in
19 that spent fuel pool is now laying on the ground in
20 the 13-plus miles northwest of the facility.

21 Part of what we're trying to understand a
22 little bit more is whether there's any other
23 correlation to weather data. As you probably are
24 aware, the weather did not blow in that direction too
25 often, and it's quite remarkable that you had that

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1 event starting at 6:00 a.m. and you had the wind
2 blowing in that direction at 6:00 a.m. for about the
3 next six hours, and then it was switched back out to
4 sea and the dose rate went down after that.

5 MIKE FRANOVICH: All right. Thank you
6 very much. I appreciate that.

7 BRIAN SHERON: Okay, if there's no further
8 questions, then, you know, I want to thank everybody
9 for, for calling in. And, and we'll sign off now.

10 MALE PARTICIPANT: Thank you.

11 MALE PARTICIPANT: Thank you.

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1 (CONFERENCE CALL INITIATED.)

2 02:58:04/03:29:00

3 MARTY VIRGILIO: Charlie Miller, are you
4 there?

5 CHARLIE MILLER: This is he.

6 MARTY VIRGILIO: Okay, Charlie, we're just
7 waiting for Mike to join the bridge.

8 CHARLIE MILLER: Okay.

9 MARTY VIRGILIO: The short story is we
10 have a meeting down at the White House tomorrow
11 morning at 8:30, and I'm thinking that either you or
12 Mike ought to represent us based on my conversations
13 with the Chairman's office.

14 Mike has got the duty here tomorrow on day
15 shift and of --

16 CHARLIE MILLER: So am I.

17 MARTY VIRGILIO: Oh, our logs show that
18 Mike is on at 7:00 a.m.

19 CHARLIE MILLER: No, I'm the ET. We'll
20 have two people on at once.

21 MARTY VIRGILIO: What you mean we have --
22 I'm sorry; I'm confused.

23 CHARLIE MILLER: Okay, Mike --

24 FEMALE PARTICIPANT: He's doing it and
25 Mike is on --

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1 MARTY VIRGILIO: Okay. Okay.

2 (Simultaneous conversation.)

3 MARTY VIRGILIO: All right. All right.
4 Well, good. So you're already aligned to be here on
5 dayshift.

6 CHARLIE MILLER: Right.

7 MARTY VIRGILIO: So it's a matter of
8 whether we have you here at the table or we send you
9 downtown and find somebody else to sit at the table.

10 CHARLIE MILLER: Okay.

11 MARTY VIRGILIO: And as soon as we get
12 Weber on the line, we'll talk to him too.

13 (Standby.)

14 MIKE WEBER: Mike Weber's here.

15 MARTY VIRGILIO: Michael, good evening.

16 CHARLIE MILLER: Hey, Mike.

17 MARTY VIRGILIO: Hey, sorry to bother you.

18 And Charlie's on the line too.

19 CHARLIE MILLER: Hey, Mike.

20 MIKE WEBER: Hi, Charlie.

21 MARTY VIRGILIO: Based on my discussions
22 this afternoon, as I was coming in with the Chairman's
23 office and Josh Baskin in particular, Josh has
24 expressed, on behalf of the Chairman, an interest that
25 we engage at a high level -- and I'm thinking that's

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1 either the Office of the Director or DO level, at a
2 White House-hosted meeting tomorrow at 8:30 to discuss
3 what are or what should be the assumptions that we're
4 using for the calculations on, on consequence.

5 And I just wanted to --

6 MIKE WEBER: In terms of the source terms
7 or the --

8 MARTY VIRGILIO: Yeah. And we've been
9 working for the last couple of shifts just trying to
10 figure out how to approach this. I think we've on an
11 approach now where we're giving sort of a realistic
12 worst case given the situation in spent fuel 2, spent
13 fuel pools 3 and 4 and then the bounding worst case,
14 which could include reactors if things go wrong.

15 MIKE WEBER: Right.

16 MARTY VIRGILIO

17 [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

5

19 And Don read me the long list of people that are going
20 to be there.

21 Right now we're lined up to send a
22 technical expert, but the Chairman's office is asking
23 if we can -- plus, you know, the technical experts
24 plus a senior level management to go nose to nose with
25 Aoki on a position that we believe is the right

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1 position in initial conditions and assumptions for the
2 analysis.

3 Let me let John give you just a little bit
4 more what we're doing on the approach.

5 JOHN: Hi, Charlie, Mike.

6 CHARLIE MILLER: Good evening.

7 MARTY VIRGILIO: We've been in this
8 ongoing back-and-forth where we've have had -- dare I
9 say criticism; I'm trying to be nice -- some real
10 angst apparently by folks about what went into the
11 source term, why we made that assumption, and while we
12 have tried to patiently explain it back and forth,
13 there seems to be at least still some mixing of what
14 we did as a realistic worst case, which has some of
15 reactor 2, all of spent fuel 4 and half of spent fuel
16 3 in order to try and do our protective action. That
17 was the base for the press release that went out on
18 Wednesday.

19 And then what our answer was

20 [REDACTED]
21 [REDACTED] which was, we nicknamed the melt-core setup,

22 which included contributions from reactors 1, 2, 3 and
23 all four of the spent fuel pools.

24 Now every shift that I coming here, I keep
25 thinking I'm going to be told that NARAC will have run

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1 the melt-core worst-case model [REDACTED]

2 [REDACTED] for the trans-Atlantic calculation, to see
3 what the deposition might be in the United States.
4 And every time I come in here, they're asking us
5 questions and they haven't run it yet.

6 JIM WEBER: Gee.

7 MARTY VIRGILIO: While we have been in the
8 TA bridge until a little while ago, my folks back in
9 the Protective Measures Team have been engaged in yet
10 another conversation, and I don't know where it
11 actually stands at this moment.

12 But the call that the meeting tomorrow is
13 to talk about [REDACTED]

14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 DOD wants to know where to move their
22 ships. EPA and others want to know what to expect on
23 the West Coast. HHS wants to know what kind of levels
24 in order to make recommendations on whether or not
25 they should actually recommend potassium iodide at

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1 some point. And it goes sort of on and on.

2 [REDACTED] 5
3 [REDACTED]
4 [REDACTED]
5 [REDACTED] I would hope that

6 a success would be that in the end, there is a
7 (inaudible) agreement high enough up that my folks
8 wouldn't continue to bang their heads against the
9 telephone back and forth with folks at our level about
10 what assumptions are, and they would actually do some
11 calculations for us.

12 That's, that model of success was exactly
13 what was communicated to me by Josh from the Chairman.

14 MIKE WEBER: Marty, have we, has anybody
15 spoken to Steve?

16 MARTY VIRGILIO: Aoki? No, not since, not
17 -- I don't know when the last time -- Aoki has been on
18 a couple of the calls that we have been on from the
19 Protective Measures Team area as we have explained
20 what we were doing and the process that we were going
21 through.

22 MIKE WEBER: And Don, [REDACTED] 5
23 [REDACTED]

24 MARTY VIRGILIO: We have provided him at
25 least three and four times that I've been personally

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1 involved in.

2 CHARLIE MILLER: Mike,

3

4 MIKE WEBER:

5 CHARLIE MILLER: Yes.

6 MIKE WEBER: So he knows about that
7 request.

8 CHARLIE MILLER: Right. Now, but as I
9 remember, he was, he was waffling on what they wanted
10 him to do there. Waffling is not the right word. He
11 seemed to have angst about doing that. So maybe
12 that's what's holding this up. I don't know.

13 MIKE WEBER: Yeah. Yeah.

14 MARTY VIRGILIO:

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one worst-case and put it on the shelf?

Can we just get

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1 MARTY VIRGILIO: Right. Right.

2 CHARLIE MILLER: Right?

3 MARTY VIRGILIO: Right.

4 CHARLIE MILLER: And if something's
5 changed and that's not what they want, okay, but we
6 all need to be aligned on what it is we're trying to
7 achieve.

8 MIKE WEBER: When was the last time we
9 spoke to Steve? John?

10 MARTY VIRGILIO: Steve may well have been
11 on the call that my PMT folks have been on for the
12 last hour.

13 MARTY VIRGILIO: Oh, okay.

14 JOHN: He was on the email that set up
15 that call that started at 7:30. I've been in here
16 with the ET as we did the press and the TA brief, so I
17 have not had a chance to find out from my folks what
18 the latest was in that phone call.

19 CHARLIE MILLER: If, if you're getting
20 angst about moving naval ships and things like that,
21 the worst-case scenario isn't necessarily the one you
22 want to run.

23 MARTY VIRGILIO: Right, Charlie. This is
24 what we're all thinking, that there's, you know, you
25 run at least two cases.

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1 CHARLIE MILLER: Yeah.

2 MARTY VIRGILIO: Where, where are you
3 today with Units 3 and 4 spent fuel pools.

4 CHARLIE MILLER: Right.

5 MARTY VIRGILIO: And what if that goes
6 bad? And then the other worst-case, then that would
7 rap in the reactors as well, notwithstanding the fact
8 that those reactors appear stable at this point in
9 time.

10 CHARLIE MILLER: Right. So I guess the
11 question is what, you know, what is it that they want
12 run. I mean, do they still want this worst
13 worst-case? If they want to scrap that, that's fine.
14 You know, we just need to know where we're headed
15 because it doesn't seem like we can ever get this
16 worst-case run.

17 JOHN: Yeah, it's not only what is it they
18 want but it's almost as if we want to influence what
19 it is they want.

20 CHARLIE MILLER: Yeah.

21 MIKE WEBER: Well, we ought to be able to
22 agree on worst-case is.

23 MARTY VIRGILIO: Yeah, I would think so.
24 It would situation right now.

25 MIKE WEBER: Yeah.

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1 MALE PARTICIPANT: We have Bruce Watson
2 scheduled to go down tomorrow morning as a technical
3 expert. He's been here during the day with a bunch of
4 us when much of this was developed going back for to
5 three or four days ago when we did the worst-case
6 scenario. So he's prepared to go. He will be going.

7 MIKE WEBER: Charlie, are you on shift
8 tomorrow?

9 CHARLIE MILLER: Yeah, I'm on, I think,
10 with you at 7:00 a.m., Mike.

11 MARTY VIRGILIO: You're both on the, the
12 dayshift, so it sort of works out in a way.

13 MIKE WEBER: How so?

14 MARTY VIRGILIO: Well, we don't have to
15 pull one of you out of bed in order to do it.

16 MIKE WEBER: Oh, yeah, yeah.

17 CHARLIE MILLER: Yeah, that's encouraging.
18 Yeah.

19 MIKE WEBER: Charlie, you have the
20 continuity on this. Are you comfortable going down?

21 CHARLIE MILLER: I don't mind going. Oh,
22 what I would need, though, by morning is when I get
23 in, I'd have to get, you know, a quick brief on what
24 it is that the PMT wants me to present, having the
25 work that they've done over the weekend.

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1 And then I could carry the water for what
2 we think also is what we would tell -- we've given
3 them what we think is the worst case. Right? Don?

4 DON COOL: I'm sorry. What?

5 CHARLIE MILLER: We have given, we have
6 given NARAC what we think is the very conservative
7 worst case [REDACTED] We
8 gave them the input parameters; right?

9 MARTY VIRGILIO: That is correct. him And
10 that's the one that -- so I could take that one and I
11 could take anything you want me to have with me with
12 regard to realistically what we think we should be
13 doing for a run to meet those other needs with regard
14 to real protective actions.

15 MIKE WEBER: Yes.

16 MARTY VIRGILIO: Yes. That's quite
17 correct. We can, we can set up a set of things that
18 you can describe to them. None of that will be new in
19 terms of the two sets of cases that we have provided
20 to NARAC. We are also meeting tonight with the RST
21 trying to look at whether there's a slightly more
22 realistic, where we back out the reactor, whether we
23 would make any modifications to our assumptions on
24 spent fuel 3 and 4.

25 CHARLIE MILLER: Right.

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1 MARTY VIRGILIO: But that's pulling on the
2 piece of what was part of it. It's not, it's not a
3 substantial drawback of the case because quite frankly
4 we still think 4 is a melt on the floor in there.

5 CHARLIE MILLER: Right.

6 MIKE WEBER: And Charlie, did you see the
7 point paper that I think Kathy Gibson worked on
8 overnight?

9 CHARLIE MILLER: No. I haven't seen any
10 of that.

11 MIKE WEBER: Yeah. That, as I recall
12 reading it on my BlackBerry, has a whole series of
13 different scenarios and it.

14 DON COOL: Yeah. Let me, let me explain
15 that quickly. That got started when we said, if they,
16 if NARAC runs the melt-core worst case, can you get
17 big numbers on the West Coast? And what might be a
18 more realistic way to model what might happen? And
19 Kathy Gibson put together three different possible
20 options for how you would do that.

21 There's a one-pager on that we have here,
22 Charlie, that you could very quickly be able to go
23 through. Kathy Gibson will be on duty from 11 to
24 seven, so you would be able to interface with her and
25 get the details from her on her thoughts on that if

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1 you needed to back off from the worst case that had
2 been given to them several days ago.

3 DON COOL: That was developed for this
4 meeting, not knowing when this meeting was going to
5 occur.

6 CHARLIE MILLER: Okay. I'm comfortable,
7 I'm comfortable going if the team is willing to send
8 me.

9 MIKE WEBER: Oh, yeah.

10 MARTY VIRGILIO: Yeah. Do you want a car,
11 Charlie?

12 CHARLIE MILLER: I'm going to need a
13 driver. And then something special has to be done to
14 get access into the White House. Right?

15 MALE PARTICIPANT: Well, what we will do
16 is we'll have, after this call, we've got to provide
17 certain information on you.

18 CHARLIE MILLER: Okay.

19 MALE PARTICIPANT: In fact, what we need
20 to do is --

21 MIKE WEBER: Name, date of birth, and
22 social.

23 CHARLIE MILLER: All right.

24 MALE PARTICIPANT: It's your state of
25 residence, birth, country of birth, where you're

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1 living, and date of birth and social. We'll do that
2 on another line. We'll do that afterwards, Charlie.

3 CHARLIE MILLER: Not on a recorded line.

4 MALE PARTICIPANT: Yeah. And then we'll
5 send an email down to get you on the list.

6 CHARLIE MILLER: All right. So you'll
7 just give me a call back on a non-recorded line and I
8 can give you that info.

9 MARTY VIRGILIO: I'll call you, Charlie.

10 CHARLIE MILLER: Okay.

11 MARTY VIRGILIO: All right, we'll arrange
12 for a car. Let's see. The meeting is at 8:30, so
13 what do you think? 7:15?

14 CHARLIE MILLER: I'm sure (audio
15 interference).

16 MIKE WEBER: Is there also a deputies call
17 tomorrow?

18 MARTY VIRGILIO: That's not clear, but I
19 assume so.

20 MIKE WEBER: Yeah, I thought --

21 MARTY VIRGILIO: Mary Jane is looking at
22 her notes right now.

23 MIKE WEBER: I thought they do it at eight
24 o'clock, except they did at 7:30 on Friday.

25 MARY JANE: Yeah, I was thinking maybe

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1 they were going to change that one because of the
2 Commissioners briefing tomorrow.


3 Hang on. I'm trying to see if I've got --
4 oh, no, that's the consortium call -- so, yeah, there
5 will still be a deputies call tomorrow. I haven't
6 heard that that was change for tomorrow.

7 MALE PARTICIPANT: All right. Charlie,
8 we'll do all this for you, of course, but just so you
9 could be thinking about it a little bit, the agenda is
10 fairly benign.

11 MARY JANE: I have it eight o'clock --
12 sorry, Mike -- I have a deputies, deputy secretaries
13 call, White House lead, eight o'clock your morning.

14 CHARLIE MILLER: Okay.

15 MALE PARTICIPANT: The agenda, as I was
16 saying, is a little benign, but there's more to it, of
17 course.



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21
22 Marty mentioned to you that we've got
23 another a number of suggested participants. I'll just
24 quickly --

25 MARTY VIRGILIO: We'll, we'll put together

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5

1 a folder for you, Charlie.

2 CHARLIE MILLER: Okay.

3 MARTY VIRGILIO: So when you come in,
4 you'll have that email with a list of participants and
5 Kathy's prefix sheet as it evolves in the next shift
6 tonight.

7 CHARLIE MILLER: Okay, and then I guess
8 who's the point of contact at the White House when I
9 get there, you know?

10 MARTY VIRGILIO: It's going to be [REDACTED]
11 [REDACTED] hosting the meeting.

12 CHARLIE MILLER: Okay, but --

13 MIKE WEBER: Is [REDACTED] the staffer,
14 coordinating this?

15 MALE PARTICIPANT [REDACTED] is the recipient
16 of an email, Mike, from to [REDACTED]

17 MIKE WEBER: Because you want whoever the
18 staffer's name is to get it. If you get down there
19 and your clearance is goofed up and --

20 MALE PARTICIPANT: We're sending to --

21 MALE PARTICIPANT: We're sending the
22 information to [REDACTED]

23 MIKE WEBER: Then he's the point of
24 contact, so you want his telephone number.

25 CHARLIE MILLER: Yeah, get that on there.

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1 MALE PARTICIPANT: Yeah, we've also got a
2 number here for [REDACTED] on this -- we've that.
3 Yeah. Yeah.

4 MIKE WEBER: And I guess, for your
5 preparation, Charlie, what would work best might be
6 our proposed approach and then have alternatives.
7 Right?

8 CHARLIE MILLER: Right. And the way I
9 look at it, guys, when it gets to the meteorology,
10 we'll let the others deal with that because that goes
11 beyond 50 miles. I think our stake in this is what
12 input parameters do we go in to run it?

13 MARTY VIRGILIO: Yeah, we're all in
14 agreement, Charlie.

15 CHARLIE MILLER: Okay.

16 MIKE WEBER: Probably what you're going to
17 find out as each party weighs in is everybody has a
18 different definition for worst case for their own --

19 CHARLIE MILLER: Absolutely. Absolutely.

20 MIKE WEBER: Yeah. So we've got to come
21 to the common agreement to go forward.

22 CHARLIE MILLER: Okay. The other thing
23 is, just for prep for tomorrow if you think about it
24 overnight [REDACTED] the other day, was thinking about
25 Units 5 and 6 too. So if we're not going to have

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1 (inaudible) hear the status, is it okay -- you need to
2 have a rationale for that, too, for me.

3 MARTY VIRGILIO: Yeah, that, if they're,
4 if they're stable and cool.

5 CHARLIE MILLER: Yeah.

6 MARTY VIRGILIO: At least for the moment.

7 CHARLIE MILLER: Okay, so I, I would go,
8 and Bruce would come at my technical support. Right?

9 MALE PARTICIPANT: That's correct,
10 Charlie.

11 MARTY VIR GILIO: Yeah.

12 CHARLIE MILLER: Okay.

13 MARTY VIRGILIO: What time would you come
14 in here? Because it would be best to make sure Bruce
15 was in here at that same time with you.

16 MALE PARTICIPANT: He's in here early. He
17 tends to get here early, I mean like 5:30 or
18 something.

19 CHARLIE MILLER: I can try to get in there
20 at 6:30, Marty, around 6:30, 25 of seven.

21 MARTY VIRGILIO: That, that should be
22 plenty of time.

23 CHARLIE MILLER: Okay.

24 MARTY VIRGILIO: We'll call you around
25 then.

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1 CHARLIE MILLER: Okay. All right, thanks,
2 guys. Sorry to have disturbed you.

3 CHARLIE MILLER: All right, so you'll call
4 me right back on another line, right, on a BlackBerry?

5 MARTY VIRGILIO: Will do.

6 CHARLIE MILLER: Okay. Thank you.

7 MIKE WEBER: Anything significant new
8 developments?

9 CHARLIE MILLER: No. I'm going up, Mike.
10 Okay?

11 MIKE WEBER: Thanks, Charlie.

12 MARTY VIRGILIO: Not much, Mike. I think,
13 just for your awareness -- you'll get this tomorrow
14 when you come in -- at 11 o'clock tonight, one train
15 of the Bechtel-designed system will be flying out of
16 Australia on its way to Japan.

17 MIKE WEBER: Huh.

18 MARTY VIRGILIO: And they still need that,
19 right, because they only have a temporary fix in place
20 now?

21 MARTY VIRGILIO: We think they need it,
22 but it's not clear what they think they need. We're
23 going to ship one train at a time, it looks like.
24 We've got one stage to fly out tonight; one stage to
25 fly out tomorrow night.

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1 MIKE WEBER: Okay. Did you see -- I don't
2 know how closely all are monitoring your email -- but
3 we get an email from Josh.

4 Apparently, he spoke to the deputy
5 administrator of AID. And the question posed is
6 whether we've been able to embed somebody from our
7 team in the Tepco team.

8 MARTY VIRGILIO: That's the next phone
9 call because we were there, but my sense is that our
10 team got frustrated and are of the mind that it's not
11 value added. So we'll check again. That was one of
12 the things we were going to do.

13 MIKE WEBER: Okay. It seemed to me from
14 the way the email is phrased, that the question was,
15 are we being, experiencing a barrier to getting
16 somebody in, rather than do we don't want somebody in?

17 MARTY VIRGILIO: No, I think, I think the
18 barriers are down. I think the frustration is around
19 are we getting any useful insights from, from being
20 there.

21 MIKE WEBER: Right. Right. Okay.
22 Anything else I can help you with?

23 MARTY VIRGILIO: I think that's it. We
24 look forward to seeing you tomorrow.

25 MIKE WEBER: I bet you do.

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1 (Laughter.)

2 MIKE WEBER: You all take care.

3 MARTY VIRGILIO: All right. Get a good
4 night's sleep. You're going to need it.

5 MIKE WEBER: All right. Goodbye.

6 MARTY VIRGILIO: Good night.

7 (Partially inaudible content omitted.)

8 (Extraneous conversation omitted.)

9 MALE PARTICIPANT: Then be aware that we
10 can take super core -- in fact, when super core is
11 run, if not run it, they (inaudible) source term most
12 of the time because then you have to model it all on
13 the reactor.

14 MALE PARTICIPANT: Right.

15 MALE PARTICIPANT: But we actually run it
16 in a couple of components, the pool and the reactor.
17 So, if we want to just take the cooling part, we've
18 already got that working in the machine to.

19 MALE PARTICIPANT: Oh, that's great.

20 MALE PARTICIPANT: For, for us. I don't
21 know if we've advertised the number separately,
22 although I believe that in the process of trying to
23 get NARAC aligned around source terms, that they have
24 those individual component source terms as well. So
25 there's not much secret.

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1 MALE PARTICIPANT: Yeah.

2 MALE PARTICIPANT: If we decide that more
3 realistic is to factor a reactor out of this and we
4 need half of 3 and all of 4, so be it. Then, I said
5 -- the thing now, looking at the correlation of wind
6 and time and contamination on the ground, is when they
7 run the system, should we tell them to go ahead and
8 run it for an event which originally happened on --

9 MALE PARTICIPANT: On March 14.

10 MALE PARTICIPANT: -- on March 14. And
11 so, what would happen next as a bunch of volatiles is
12 no longer present either because they have decayed and
13 it's been a week or because they're laying on the
14 ground northwest of the site.

15 MALE PARTICIPANT: Right.

16 MALE PARTICIPANT: In terms of what might
17 now eventually come, should that melt core get into
18 the concrete and do something else.

19 MALE PARTICIPANT: Yeah.

20 MALE PARTICIPANT: And I'm beyond my level
21 of knowledge as the radiation biologist.

22 MALE PARTICIPANT: Yeah, I read that with
23 the radiation chemistry there or something.

24 (Off-mic conversation.)

25 FEMALE PARTICIPANT: (Inaudible) --

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1 contaminated produce.

2 MALE PARTICIPANT: Yeah, I saw that, but
3 we, but we have no idea what they measured or what
4 their action level was.

5 FEMALE PARTICIPANT: Yeah.

6 MALE PARTICIPANT: So it might be really
7 conservative thing. They might have found a blip on
8 the counter and said stop. I have no idea if that's
9 the problem. We have no idea what it was.

10 MALE PARTICIPANT: Directional --

11 FEMALE PARTICIPANT: We're just trying to
12 correlate Unit 3 with the -- (inaudible) on Unit 3?

13 MALE PARTICIPANT: We think so. I've
14 actually asked my folks to correlate each of the
15 events with the meteorology at the time so I have, we
16 have all of it (audio interference) for each of them
17 --

18 (Simultaneous conversation.)

19 (Extraneous content omitted.)
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21
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(CONFERENCE CALL INITIATED.)

03:29:14/03:57:15

MARTY VIRGILIO: John?

DAN DORMAN: And Dan Dorman, both of us.

MARTY VIRGILIO: Oh, Dan.

Hang on a second.

John and Dan, good. Let's see, almost good morning. This is Marty.

We got a note from Josh Baskin, who was getting input from [REDACTED]

[REDACTED] and she asked whether we had successfully embedded somebody in Tepco, and if not, do we believe it's important and would we want the Chairman to call the Japanese ambassador and ask him his help in making that happen.

My recollection is that several days ago we got the green light to embed somebody in Tepco, and we have dispatched one of our staff, in fact, to their offices. Could you all update us on where we are?

JOHN MONNINGER: Yes. You're correct, Marty. Several days ago, we had the option to go down Tepco, and it was one of our first, you know, real interactions with them. Myself attended, and Jim Trapp.

The first thing we went to was their Tepco

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1 emergency operations command center, which is a very
2 wide open, enormous, enormous room, probably double
3 the (audio interference) entire One White Flint or
4 even double that. And they, you know, have a center,
5 command center with 20 managers around it. And behind
6 that, there's rows and rows and rows of engineers and
7 (audio interference) people and TR people, et cetera.
8 And behind that, they had these (audio interference).

9 It was very, extremely busy. They had
10 status boards but apparently nothing up on the status
11 board (audio interference). But when you look at
12 that, you know, we would need a full-time interpreter
13 by our side, and the notion that to how we would
14 actually work in there, you know, where our interface
15 would be (inaudible) ground in there.

16 I mean, it was interesting to see but we
17 didn't believe we could just drift around from table
18 to table and, you know, and assert ourselves, you
19 know, ask for information, plans, activities, et
20 cetera. So that was one thing.

21 Then, from that, they took us up into one
22 of the engineering floors. And this was late Saturday
23 afternoon and they were staffed up pretty heavily in
24 this engineering floor we were on. In addition, they
25 had engineer at their desks all over the place. They

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1 had these major -- not major -- multiple conference
2 rooms for, you know, projects actually being worked
3 on, projects (audio interference), you know, reactor
4 pressure vessel, all that kind of stuff. And they
5 were, they had significant ongoing activities.

6 The, the language barrier, and I think the
7 lack of -- not the lack of -- the language barrier
8 coupled with our lack of authority over here, I don't
9 see how we could really be, you know, gain good
10 information over there. You know, would we, you know,
11 interrupt their team? You know, I, I don't see how it
12 would work. So, so that with what our assessment, and
13 that was Trapp's assessment.

14 But they did provide a tour of the
15 facility, and we believe tour of the facility (audio
16 interference) operations center. I think if we had
17 asked to be embedded, they would have accepted. But
18 our thought now is we don't see how we could really
19 effectively do that and collect the potential
20 information we want. You know, we don't have
21 regulatory authority over here. They had a huge table
22 of the regulators there, NISA. So that, that was
23 really our first introduction to Tepco. And the
24 meetings have increased, and our interactions have
25 increased.

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1 Now we're having focused meetings on
2 particular topics. For example, yesterday we had a
3 two-and-a-half-hour meeting (audio interference) on
4 the spray system being transported up from Australia
5 today or tomorrow. We, we expect, you know, another,
6 well, today we're going to have another meeting on the
7 spray system. But then subsequent, we're going to
8 have these meetings with them on that salt issue and
9 meetings with them on this Rad control access to the
10 facility type of thing.

11 You know, given the size of our team, et
12 cetera, and the potential benefits of someone
13 embedding, I, I don't see the payback.

14 MARTY VIRGILIO: You're, you're
15 comfortable about the periodic meetings that you have,
16 it's serving the purpose and may be even more
17 effective than just having somebody stand around the
18 center?

19 JOHN MONNINGER: Oh, more effective and
20 more efficient in terms of the use of our (audio
21 interference).

22 MARTY VIRGILIO: Yeah.

23 JOHN MONNINGER: There's probably a lot of
24 stuff flying around in that center which, due to the
25 language barrier and organization, we just would not

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1 know.

2 MARTY VIRGILIO: Yeah.

3 JOHN MONNINGER: And communication
4 barriers are pretty significant. You have to go back
5 and forth, back and forth, you know, before you're
6 both sure that you're talking RCS pressure versus, you
7 know, containment pressure.

8 So, you know, if we floated around there
9 with an interpreter and asked questions, then she,
10 then, you know, the interpreter may tell us one thing,
11 but we would really need to have the authority to ask
12 direct questions to them, to interrupt teams, to sit
13 in wherever they, they are operating. And we don't
14 have that authority.

15 If it was, you know, everything was
16 conducted in English, I think we could be a fly on the
17 wall and learn a lot.

18 MALE PARTICIPANT: Yeah. Yeah.

19 MARTY VIRGILIO: Okay. But -- all right.
20 I get it. We've got the access, but it's not very
21 helpful.

22 MR. KU: It's not helpful.

23 MARTY VIRGILIO: Okay.

24 JOHN MONNINGER: That's, that's not their
25 fault. It's the speech.

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1 MARTY VIRGILIO: Right.

2 JOHN MONNINGER: (Audio interference).

3 DAN DORMAN: Yeah, I would, I would be
4 careful how we communicate that back, Marty. I
5 wouldn't say it's not helpful. I think access is
6 helpful. It's how we best manage that access. I
7 think embedding is probably not the most efficient and
8 effective way to avail ourselves of the access that
9 we're starting to get.

10 JOHN MONNINGER: Yeah.

11 DAN DORMAN: Yeah.

12 MARTY VIRGILIO: All right. Good.

13 Okay, anything we can do for you all?

14 JOHN MONNINGER: I don't think so. I
15 think, I personally am very, very pleased that Dan's
16 here. So, you know, not to stroke him or anything
17 but, you know, thank you guys very much. You know, I
18 think --

19 DAN DORMAN: That's their way of saying I
20 haven't done anything yet.

21 JOHN MONNINGER: But I think we have some
22 master plans, you know, working on the management of
23 the team. And, you know, so I -- it's significant
24 vision.

25 BRIAN McDERMOTT: Hey, John, this is Brian.

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1 The, if you guys could find out, you know, maybe from
2 Tepco or whoever, NISA, what's the status, what is
3 their best estimate of the status of the spent fuel
4 pool in Unit 4? We talked about this earlier today.

5 I think it's causing some angst around
6 here because, you know, there's no steam that's been
7 seen coming out of there. And, you know, people are
8 worrying that that stuff has maybe melted through that
9 concrete floor.

10 JOHN MONNINGER: Right.

11 BRIAN McDERMOTT: And the next stop is the
12 top of the torus.

13 JOHN MONNINGER: Right.

14 BRIAN McDERMOTT: I'm sorry.

15 JOHN MONNINGER: And it's going to bust
16 through that torus.

17 BRIAN McDERMOTT: Right, and then you've
18 got potential steam explosions with this melting into
19 the water in the torus. And then after that, who
20 knows where it goes.

21 JOHN MONNINGER: Right. There was a news
22 release on NTK NKP this morning that they just started
23 or initiated cooling down Unit 4 spent fuel pool but
24 some type of spray. We assume it's the fire trucks,
25 et cetera. But, you know, those things that limited

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1 success.

2 They will come back, and I'll tell you
3 (audio interference). They'll come back and they'll
4 say the infrared detectors that they have show that
5 the temperatures for all four spent fuel pools are at
6 or less than 100^o Celsius. I mean, they're relying
7 on that, which think they can't.

8 I mean, there's a tremendous amount of it
9 debris, steel, concrete, superstructure on top of the
10 spent fuel pool, and whatever is on the pool is
11 significantly different from Units 1, 2, 3, and 4.
12 So, and then they say, you know, they've flown over
13 the helicopters and, you know, they've shot movie
14 cameras in there.

15 Chuck saw the pictures. He can't -- I
16 mean, all you see is a bunch of debris (audio
17 interference) in that. You can't see no spent fuel
18 pool. You can't see any water.

19 So, you know, the information they will
20 give us will not be sufficient to confirm that it is
21 uncovered, covered, or Like.

22 DAN DORMAN: Brian, this is Dan. In the

23 --

24 JOHN MONNINGER: But we'll follow that
25 issue up and we'll ask again.

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1 DAN DORMAN: Brian, I think the last, [REDACTED]

2 [REDACTED]

3 [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 But compared with some of the plumes that

7 we've seen coming out of Unit 3, I guess in the last

8 48 hours, have you guys [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

9 [REDACTED]

10 DAVE SKEEN: This is Dave Skeen. From

11 everything we've seen from TV and whatever video we

12 can look at, we've never seen any, any kind of steam

13 or vapor coming out of Unit 4.

14 DAN DORMAN: Have you, have you [REDACTED]

15 [REDACTED]

16 DAVE SKEEN: [REDACTED] [REDACTED]

17 [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 JIM WIGGINS: Well, some of [REDACTED] [REDACTED]

21 [REDACTED]

22 [REDACTED]

23 DAN DORMAN: Yeah, that's some [REDACTED]

24 [REDACTED]

25 -- I mean, I'm just going back a couple days now --

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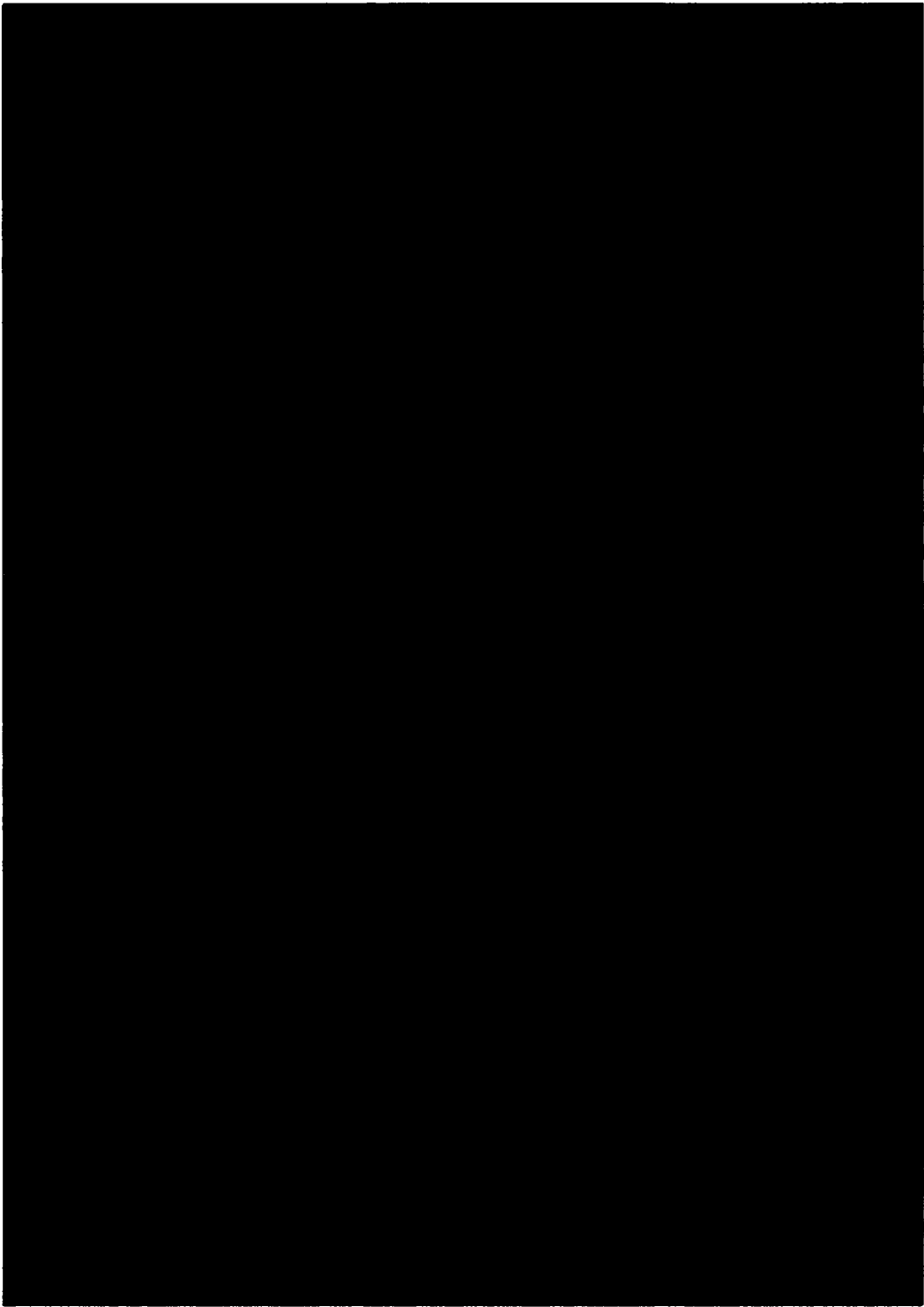
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1 but if you look at it, you've got, at that point, you
2 had a fairly, you know, a definitely [REDACTED]



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24 But again, it's light vent of vapor. But
25 that's the only thing that I've seen that I would put

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1 any weight on that would counter the position that
2 we've been taking that that pool is most likely dry.

3 MARTY VIRGILIO: Yeah, I appreciate that.

4 And so let's get back to -- that pool probably has
5 the 10 times the decay heat of Unit 3 has in it. And
6 if there's been no cooling for there for a prolonged
7 period of time, I don't see how there could be
8 possibly water left in there. And from the evidence
9 that we've seen, you might see a light mist or
10 something there, but I don't how you have water in the
11 pool, unless it's maybe down at the very bottom.

12 MALE PARTICIPANT: They don't.

13 MARTY VIRGILIO: I don't see it.

14 DAVE WELLER: This is Dave Weller from the
15 NR Team. The other supposition had looking at those
16 is there's a potential that as the core is in a dry
17 pool or in a dry area, it is interacting with concrete
18 and other materials, and you can be seen some
19 interaction there that generates a little bit of
20 smoke. And that might be what we're seeing.

21 MIKE WEBER: Yeah, there's where the
22 gasses would come off when that core hits the
23 concrete.

24 MARTY VIRGILIO: All right, guys. That's
25 all -- just that you're aware.

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1 DAN DORMAN: The other, the other piece to
2 factor into that is there's also [REDACTED]

3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 So one of my questions that I'm, that I
12 have here is, is, is that system active at all?
13 Because they may be getting water in there that we're
14 just not aware of.

15 MARTY VIRGILIO: Yeah, that's a good
16 question.

17 LARRY CAMPER: Hey, John and Dan, Larry.
18 Listen, this, this question of contamination in food,
19 milk and spinach, we had sent a message over some time
20 ago, not on this shift, before this shift, to Jack
21 Foster to see if he could interact with, you know, the
22 folks over there to try to see what he can learn about
23 this, this question of contamination of food and the
24 resulting radiation. Now, we've never heard any
25 action limits, so when they say this food is

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1 contaminated, we don't know exactly what that means,
2 of course.

3 Then the other thing that's come up, we
4 talked a little bit ago during our CA briefing, was
5 supposedly there's some contaminated water supplies,
6 tap water, and we're going to send another message to
7 Jack around that particular point. But if you can put
8 that on your scope, and anything that you guys can,
9 you know, learn about that would be helpful if that
10 issue does come up again.

11 JOHN MONNINGER: Yeah. So they, so, you
12 know, I'm not sure (audio interference) and they are
13 picking it up in they (audio interference) cabbage, et
14 cetera. And they have an (audio interference)
15 prefecture or whatever they call it, and they talked
16 about it, about seven and a half percent of country's
17 production.

18 I'm just wondering what we would do
19 differently if we knew what those action limits were
20 if they decided to, you know, make the decision to can
21 the cheese the cows. What would we do different?

22 MARTY VIRGILIO:
23
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25



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1 [REDACTED]
2 JOHN MONNINGER: Yeah.

3 MARTY VIRGILIO: And try to understand, if
4 we can get, if there's contamination in the tap water,
5 if we can get some sense of that picocuries per liter,
6 and then we can bounce it off, you know --

7 (Interference from ringing telephone.)

8 MARTY VIRGILIO: -- here in the United
9 States.

10 JOHN MONNINGER: Now, at the Embassy here,
11 they've been monitoring it and reporting back, and
12 they were -- What did they say today? The
13 percentage of -- you know, it's exceedingly low in
14 terms of, you know, the maximum permissible limit.
15 So, you know, it is measurable, but we're, we can try
16 to see what we can get.

17 DAN DORMAN: Yeah, the medical officer
18 characterized it this morning and tours of magnitude
19 below the permissible level.

20 JOHN MONNINGER: But you've got to get the
21 equipment out there.

22 MARTY VIRGILIO: All right. Good. Our
23 interest is in protecting you all and anticipating a
24 question that might come in from the Ambassador.

25 DAN DORMAN: Well, we're drinking bottled

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1 water and eating canned tuna fish, so.

2 (Laughter.)

3 JIM WIGGINS: A real feast.

4 JOHN MONNINGER: But what's the latest AMS
5 data that you guys have? I think what I got handed
6 when I got in here was the last thing that we had on
7 Friday morning and it (audio interference) after
8 yesterday's wind shift.

9 LARRY CAMPER: Yeah, we got that would
10 have been about 3:45 pm our time. You know, it shows
11 the serpentine pattern and then need due north, due
12 south. You know, you're still seeing that deposition
13 of material that traveled north, north-northwest from
14 the site. The last values, measured values, do not
15 exceed 30 MR per hour.

16 DAN DORMAN: Yeah, that's okay. I've seen
17 that. I, I asked Jim Trapp to work back with the PMT
18 and see if we can correlate back Tuesday, Wednesday
19 time frame -- my recollection is that the low-pressure
20 system came through; the wind rotated all the way
21 around the compass -- and see if we can correlate that
22 to one of the signal events, like on Unit 3 or Unit 4
23 and see if --

24 LARRY CAMPER: You got it. You're on it.
25 We're starting to think the same thing. If you go

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1 back to the -- the event you're referring to is,
2 occurred between 3/14, midnight 3/14 and 1:22 on 3/15.

3 That's when you had a spike that occurred with 30 R
4 per hour. And frankly, we're, we're reasonably
5 beginning to believe that the so-called -- how did
6 they characterize it? --

7 MALE PARTICIPANT: Lube oil fire.

8 LARRY CAMPER: -- yeah, the lube oil fire
9 may very well have been, you know, something far more
10 significant coming out of uniform because what we're
11 now beginning to think, at least Don Cool and I,
12 talking with the PMTs, you know, it may well be that
13 that was a seminal event in which the volatiles were
14 deposited out there on soil to the north-northwest of
15 the site. And if that's the case, the good news is
16 that the volatiles are already out there. The bad
17 news is, the thing we're all trying to chew on, is
18 what's going on in Unit 4 now in terms of any future
19 consequences from interaction of melted spent fuel
20 material with concrete and so forth.

21 DAN DORMAN: It's, it's interesting to me
22 you're focusing on that lube oil fire because Jim, Jim
23 and I when we were talking this morning were focusing
24 on the Unit 4 explosion, but I'm fuzzy in my
25 recollection of which came first.

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1 LARRY CAMPER: Well, I, I think we're
2 saying we're skeptical that it was a lube oil fire.

3 DAN DORMAN: Yeah, I'm -- we --

4 LARRY CAMPER: We know it wasn't a lube
5 oil fire. We know that. They can take that off the
6 table.

7 DAN DORMAN: Yeah. I guess, I guess if --
8 yeah, I'll be interested to see an analysis that lines
9 up the time sequence of events compared to that wind
10 shift because I think that, obviously, that wind
11 shift, to me, is the only -- the only, you know, Jim
12 kind of said, well, maybe the explosion drove this big
13 plume out there or it was a directional explosion out
14 to the northwest.

15 Well, I could understand that even out to
16 a mile or two. But if, if you had an explosion that
17 with, the wind was still blowing up fee, you get a
18 little bit of wind from the explosion it back, but not
19 30 kilometers. So, so I'm thinking that that,
20 whatever, whatever was happening during that wind
21 shift is what put that deposition out there.

22 LARRY CAMPER: Yeah, we're thinking the
23 exact same thing. We're all in the same place. We're
24 ruling out lube oil fire. I don't think any of us are
25 buying that.

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1 MARTY VIRGILIO: Relative to the
2 protective action guidelines type of guidance coming
3 from Japan is, people, the other thing to keep in mind
4 is they have hundreds of thousands of people who
5 displaced who need food, water, and shelter, and food
6 is food, so they might have to have different
7 priorities than what we consider normal.

8 MALE PARTICIPANT: Yeah.

9 DAN DORMAN: I think that's a fair
10 conclusion.

11 LARRY CAMPER: Yeah, that's a great point,
12 and the problem is we just don't know what their
13 action levels are at all.

14 MARTY VIRGILIO: I understand that.

15 LARRY CAMPER: I mean, we certainly --
16 just don't know, you know. That's just my personal
17 observation, not any professional position, but it's
18 one thing --

19 MARTY VIRGILIO: But, as we consider what
20 we would do, they certainly have an overarching set of
21 concerns.

22 DAN DORMAN: (Inaudible) RST or the PMT a
23 position or a conclusion regarding the, the salt
24 crystallization concern? We're getting some other
25 stuff from DOE, but have you guys come up with a

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1 position on that?

2 MARTY VIRGILIO: They're still working
3 that in the RST room right now.

4 JOHN MONNINGER: We're, we're thinking
5 most likely today or tomorrow, you know, we'll have a
6 call with Tepco to run through that.

7 MARTY VIRGILIO: Okay.

8 JOHN MONNINGER: So, so that's --

9 DAN DORMAN: That's a priority.

10 JOHN MONNINGER: Yeah, the CNO, his, you
11 know, number-one priority is the salt issue.

12 DAVE HERMAN: This is Dave Herman again.
13 One of the things I heard was Tepco had expressed that
14 they wanted to switch to using fresh water. Do we
15 have any understanding of their ability to generate
16 water?

17 CHUCK CASTO: They -- they'll have to put
18 in the desalinization process.

19 JOHN MONNINGER: They, they've also talked
20 about bringing in, you know, trucks. And then
21 yesterday they said there's some dam 10 kilometers
22 away that, the piping down to the plant is still
23 intact. But we're not, you know, sure what it would
24 be, of those three.

25 CHUCK CASTO: This is Casto.

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1 On the protective measures, I think the ambassador
2 it's getting most, a lot of information from DOE and
3 AMS, and they meet when we meeting. That's the
4 meeting I just came back from.

5 So it was, it would be helpful if we work
6 with DOE and come up with a consolidated viewpoint.
7 And that has been -- DOE, you know, they had
8 information at that meeting that I didn't have. And
9 I, I would prefer the two teams work together to come
10 up with a single -- so that we know what DOE's going
11 to provide them every morning.

12 MARTY VIRGILIO: All right. So are you
13 guys (audio interference).

14 LARRY CAMPER: Just for your awareness,
15 Tony just handed me a couple of articles from the Wall
16 Street Journal. It's amazing how people know this
17 stuff and we can't seem to get it. But it is what it
18 is.

19 But it says that one spinach sample
20 collected in the city Hitachinaka located about 120
21 kilometers south of the plant contained 8,420
22 Becquerel's per kilogram of iodine 131, according to
23 the health administrator. The normal amount set by
24 Japanese law is 2000 Becquerel's per kilogram, so
25 roughly a factor of four over their legal limit.

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1 And then in a separate article, it talks
2 about in a raw, in raw milk samples, implying more
3 than one, from a farm in a town of Kawamata in the
4 Fukushima Prefecture, up to 1,510 Becquerel's per
5 kilogram of iodine 131 were detected, about five times
6 the limit of 300 Becquerel's per kilogram set by law.

7 So I --

8 JOHN MONNINGER: What I think is maybe can
9 have Jack Foster call the PMT to run through all this
10 stuff.

11 CHUCK CASTO: Yeah, I mean the preferable
12 method I tried to establish the other day was to get
13 Jack Foster, the PMT, and DOE together and provide a
14 consolidated input and, you know, PowerPoint briefing
15 ready for the ambassador.

16 DOE goes in there every day with a
17 PowerPoint and, you know, it's not always like I'm
18 armed with the same information. So we got to get,
19 we've got to get those groups, three groups working
20 together and make sure we get one consolidated input
21 to it.

22 FEMALE PARTICIPANT: Chuck, can you let
23 them for an action? I'm sorry. Are you asking for
24 our help in making sure that the same information
25 that's getting to DOE is getting to you?

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1 JOHN MONNINGER: Well, I think it's, I
2 think it's first to make sure the teams are
3 communicating well together and they come up with
4 their assessments or recommendations that may be
5 different. But, and then once that occurs then, yeah,
6 it's communicated with Chuck or the team there at the
7 same time DOE does.

8 FEMALE PARTICIPANT: Okay, so we need to
9 figure out who in DOE is doing what and who they're
10 sending their information to?

11 JOHN MONNINGER: Have the PMT talk to Jack
12 Foster because he knows who at DOE is getting this
13 stuff. So --

14 LARRY CAMPER: It's Brian somebody or
15 other on the fourth floor.

16 MALE PARTICIPANT: So let's get, let's get
17 where it's coming in through DOE married up with the
18 PMT and with Jack, and then they can feed us so that
19 when Chuck's going into these meetings with the
20 ambassador, it's, we're not trying to look over DOE's
21 shoulder and see what they've got.

22 FEMALE PARTICIPANT: Okay. I'll talk to
23 the PMT director and try to get that working through
24 Jack.

25 MALE PARTICIPANT: Thank you.

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1 JOHN MONNINGER: Good for now, guys?

2 JIM WIGGINS: Yeah. Anything else?

3 JOHN MONNINGER: I don't think so. Not,
4 not on this end. We're just trying to get organized
5 for Dan in here this morning.

6 JIM WIGGINS: Okay. All right. We'll let
7 you guys go. Thanks a lot.

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(CONFERENCE CALL INITIATED.)

3:57:31/4:07:55

MIKE THOMPSON: John?

JOHN MONNINGER: Yeah.

MIKE THOMPSON: This is Mike Thompson, and we've got Marty Virgilio and others on the team.

JOHN MONNINGER: Hey. Okay, so are you guys ready?

MIKE THOMPSON: Yes.

JOHN MONNINGER:

So, we're faxing it back to you guys now, to the PMT, et cetera. I think Jack Foster's on the phone too. But my thought is, if you could look at

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1 it, try to understand somewhat what the heck it says,
2 and then we get in touch with whatever Navy facility
3 so that they get a good understanding.

4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 You understand?

8 MARTY VIRGILIO: [REDACTED] [REDACTED] [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]

14 JIM WIGGINS: Have they been venting? We
15 need to know. Unit 3.

16 JOHN MONNINGER: Well, yes. Okay, so I
17 can definitely get to Tepco and get the venting. But,
18 regardless of venting or not, you guys, you've got to
19 try to engage the PMT, try to understand what the
20 access stuff says with silver iodine equivalent. And
21 we've got to get you guys in touch with the Navy to
22 make sure people are talking apples to apples.

23 MARTY VIRGILIO: Agreed.

24 JOHN MONNINGER: But we will, you know,
25 our recommendation if we got in there would have been

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1 we received the information. We're engaging our
2 experts back at headquarters. Once we have an
3 understanding of that, we'll return to the Navy to
4 make sure, you know, we're on the same page. So, but
5 that's not -- you know.

6 MARTY VIRGILIO: Can we get our Naval
7 Reactors folks in? Are they still out there?

8 (Off mic.)

9 JOHN MONNINGER: So our Naval --

10 JIM WIGGINS: No, we're talking
11 internally.

12 MARTY VIRGILIO: Yeah, we've got NR folks
13 that have been here around the clock. We can work
14 them on this issue too.

15 JOHN MONNINGER: Okay.

16 MARTY VIRGILIO: Hang on just a second.

17 JOHN MONNINGER: All right.

18 MALE PARTICIPANT: You mentioned 150
19 millirem per hour.

20 JOHN MONNINGER: The -- are you ready?
21 They took some samples, and the sample is in
22 microcuries per milliliter, and they say that's the
23 equivalent of 150 millirem per hour.

24 MARTY VIRGILIO: Okay, so it's an air
25 sample and they converted into (inaudible) hour.

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1 JOHN MONNINGER: Yeah.

2 MARTY VIRGILIO: Okay. All right.

3 JIM WIGGINS: And where did you say they
4 caught these samples?

5 JOHN MONNINGER: It's either --

6 MALE PARTICIPANT: Yokohama?

7 JOHN MONNINGER: -- pronouncing it
8 correctly -- Yokashawa or Yokohama.

9 JIM WIGGINS: Well, there's Yakota Air
10 Force Base and there's Yokuska Submarine Base.

11 JOHN MONNINGER: Yeah. I don't know which
12 one, but we, you know, the thought is to get in touch
13 with the Navy and figure out where they took the
14 sample and what this write-up means.

15 MALE PARTICIPANT: Did you mention some
16 Navy Admiral?

17 JOHN MONNINGER: Admiral Thomas. The
18 information is from 11:30 a.m. out here, which is
19 approximately an hour and a half ago.

20 JIM WIGGINS: Okay.

21 MARTY VIRGILIO: Okay. John?

22 JOHN MONNINGER: Yeah.

23 MARTY VIRGILIO: We've invited our Naval
24 Reactors folks into the meeting.

25 JOHN MONNINGER: Okay.

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1 MARTY VIRGILIO: And could you just review
2 what you've got one more time? Sorry to run you
3 through this, but I want to make sure he hears it
4 first hand.

5 JOHN MONNINGER: Okay, so we can review
6 it, but what I'd recommend is -- we faxed it out
7 within the past 5 minutes to the PMT -- so the PMT
8 should be able to pull it off and you'll see the
9 write-up. It's notes from an individual in the Navy.
10 They handed it to us.

11 MARTY VIRGILIO: Okay, so it's Admiral
12 Thomas. We're not exactly sure [REDACTED]

13 [REDACTED]
14 [REDACTED]

15 KATHY: We have 1.5 millirem per hour.

16 (Off-mic conversation.)

17 MARTY VIRGILIO: John?

18 JOHN MONNINGER: Yes.

19 MARTY VIRGILIO: Go ahead, Kathy.

20 KATHY: We got information -- I just wrote
21 down here "Navy guy."

22 MARTY VIRGILIO: Admiral Thomas was the
23 Navy guy.

24 KATHY: Okay.

25 MARTY VIRGILIO: Go ahead.

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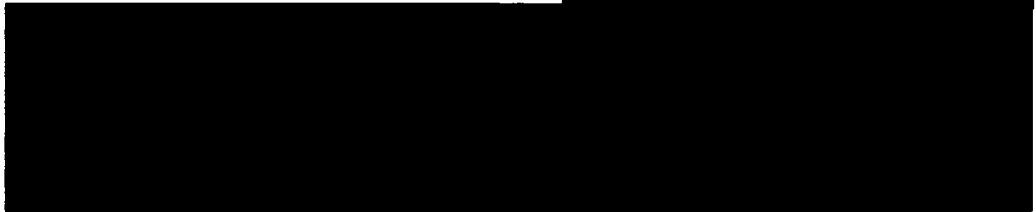
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1 KATHY: And they took a sample. The
2 sample point they gave us, the latitude and longitude,
3 is an area south of Tokyo. 
4 
5
6

7 JOHN MONNINGER: So thyroid dose, okay.

8 KATHY: Yeah. And they asked us if we can
9 back-calculate a dose in Tokyo. We wanted to try to
10 do that. RASCAL won't do it. It will be have to be
11 hand-calculated. But then we got a (inaudible) from
12 Bill Cook. Is he with you, John?

13 JOHN MONNINGER: Yes, Bill Cook's with us.

14 KATHY: Okay, so we'll just talk to him if
15 they're concerned about (inaudible) number 2.

16 MARTY VIRGILIO: Yeah, I didn't hear the
17 last -- I, they're concerned about evacuating the
18 embassy, or US citizens?

19 KATHY: Yeah. What, what we want to do is
20 get, get in touch with the people that actually pulled
21 their samples so we can get more information on how
22 they pulled the sample.

23 JOHN MONNINGER: Right. And we concur 100
24 percent in that, the notion that we talk to the Navy,
25 come to a complete understanding, and maybe there's

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1 recommendations out of that; maybe there isn't.

2
3
4
5
6
7 KATHY: Okay.

8 JOHN MONNINGER: We're going to --

9 MARTY VIRGILIO: But with these data, make
10 sure you heard her. Kathy's data does not say 150.
11 It's 01.5, 1.5 millirem per hour.

12 MALE PARTICIPANT: But the source term we
13 (inaudible) from that was 1.6 10^{-6} microcuries per
14 milliliter.

15 MARTY VIRGILIO: Which is clearly a level
16 of interest. It's higher than the numbers I've heard
17 from the more --

18 KATHY: I have E^{-7} .

19 MALE PARTICIPANT: That was about -- I'm
20 repeating your numbers, so I repeated --

21 KATHY: $1.6E^{-7}$.

22 MALE PARTICIPANT: Okay. That's still
23 significant but, but not --

24 KATHY: No, we haven't checked them I
25 have.

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1 MARTY VIRGILIO: Typically, the Navy take
2 the types of readings using filter paper (inaudible)
3 water samples.

4 KATHY: This is silver zeolite sample.

5 MALE PARTICIPANT: Okay. So it's a silver
6 cartridge and the same type of unit, then, for, which
7 was sensitive to iodine and those type of thing?

8 JOHN MONNINGER: So can you guys repeat
9 what you believe that equivalent is?

10 KATHY: We haven't done the calculations.
11 We're just repeating what we were told.

12 JOHN MONNINGER: So what were you told
13 about the equivalent thyroid?

14 KATHY: 1.5 millirem per hour.

15 JOHN MONNINGER: So that's a factor of 100
16 different than what's being reported here.

17 MALE PARTICIPANT: Yeah.

18 JOHN MONNINGER: They're saying 150
19 millirem per hour.

20 (Simultaneous conversation.)

21 JOHN MONNINGER: And that's what's being
22 briefed to the ambassador right now.

23 MARTY VIRGILIO: I think it's important
24 that --

25 (Simultaneous conversation.)

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1 KATHY: Whether they have any other
2 sample.

3 MALE PARTICIPANT: We need to be clear on
4 where that sample is collected.

5 KATHY: We, we have a latitude and
6 longitude.

7 MARTY VIRGILIO: Can, can you read that to
8 me?

9 KATHY: 36.11.46 N.

10 MARTY VIRGILIO: 36.11.46 N.

11 KATHY: 120.16.87 E. We're told that it's
12 south of Tokyo.

13 MARTY VIRGILIO: Okay, John, if you'll
14 engage Tepco -- John, are you there?

15 JIM WIGGINS: John?

16 JOHN MONNINGER: Yes, sir.

17 MARTY VIRGILIO: If you'll engage Tepco on
18 any recent venting --

19 JOHN MONNINGER: Yes. We'll -- if you
20 guys let us go, we'll call Tepco and you guys will run
21 this down, and you'll get in with the Navy and, and
22 pull your heads together.

23 MARTY VIRGILIO: Okay. Got it, John.

24 JOHN MONNINGER: Got it? Okay, you got
25 the Navy. We've got Tepco. All right. Thanks.

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