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NUCLEAR REGULATORY COMMISSION

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JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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MARCH 23, 2011

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1 P-R-O-C-E-E-D-I-N-G-S

2 (CONFERENCE CALL INITIATED.)

3 MALE PARTICIPANT: Understood.

4 And Phil, based on that, you believe we
5 have dose indications that can be attributed to the
6 (inaudible) that are currently high?

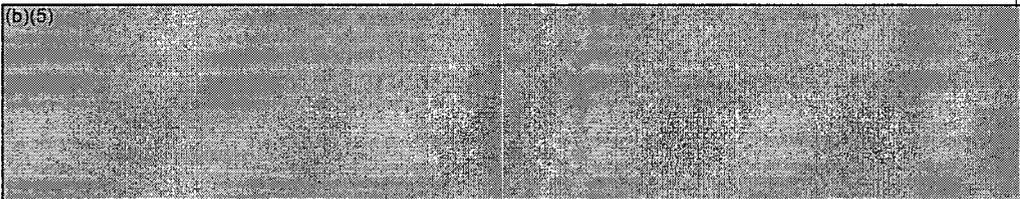
7 PHIL: Yes.

8 MALE PARTICIPANT: Okay. All right.
9 Thanks.

10 And then the other thing I just wanted to
11 confirm is it's our understanding that information on
12 -- the request for information on robotics came from
13 the Japanese and IMPO's currently handling that and
14 working directly with the team (inaudible) monitor.

15 MALE PARTICIPANT: Well, they should go
16 back to up in Headquarters and it would be passed off.
17 The reason I called in is we were thinking we're
18 going to get feedback from Headquarters before the
19 meeting. So I called him directly. I mean, we've
20 talked probably four or five times on the robotics
21 over the past week.

22 (b)(5)



23
24
25 don't want to, that's fine.

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(b)(5)

FRED: No, no. But -- IMPO -- yes. So I just talked to IMPO. IMPO is doing an inventory of U.S. equipment. They simply wanted to confirm that

(b)(5)

MALE PARTICIPANT: Yes. That's what I'm trying to tell you, Fred, is that if you collect it

(b)(5)

FRED: Right.

MALE PARTICIPANT: So you can't do that. We learned that with the pumping system.

(b)(5)

FRED: Right.

MALE PARTICIPANT: But if you give them a

(b)(5)

FRED: Right. That's exactly what I

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(b)(5)

list.

MALE PARTICIPANT: Oh, yes. They're

(b)(5)

And also, radiation -- I think I told Mike this -- and we're checking with DOE on large-scale radiation detection equipment in terms of square feet or square miles or whatever -- anything that can characterize the radiation fields over large areas.

MALE PARTICIPANT: (inaudible).

FRED: Okay. Understand. We have a follow-up call here with IMPO. We'll make sure that when they get their inventory, they copy us and you on that list.

MALE PARTICIPANT: Outstanding job.

(b)(5)

FRED: Okay. IMPO is actively working on it. They were just looking for some assurance that --

MALE PARTICIPANT: The one thing I forgot to tell you, Fred -- I'm sorry. And this time I'm going to hold you. Tomorrow morning they're flying a

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(b)(5)

1
2
3 going to try to characterize the Unit 3 spent-fuel
4 pool tomorrow.

5 FRED: Very good.

6 MALE PARTICIPANT: So hopefully we'll have
7 some information on that tomorrow night.

8 FRED: Okay. (b)(5)

9 one unit only. It won't get multiple units for dose
10 consideration?

11 MALE PARTICIPANT: And because of dose
12 concerns. They're going to try Unit 3. But we'll see
13 how it comes out.

14 FRED: Okay. I hope you've seen this
15 already, but it is important. So let me pass it on in
16 case you haven't.

17 The last two days we've gotten reports
18 from IMPO on RAD levels in the drywell and toruses.

19 MALE PARTICIPANT: Yes, we saw those
20 numbers.

21 FRED: Okay. Good. Very good.

22 MALE PARTICIPANT: Those are interesting
23 numbers.

24 FRED: Yes. And you saw them for today as
25 well.

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MALE PARTICIPANT: I didn't see them all.

What we got today, we got from NISA (phonetic) the plots of the drywell and suppression chamber (inaudible) levels that were huge.

FRED: Right. Units 2 and 3 appear to have trended down slightly, and Unit 1 was stable in the torus. But the assessments that we got for those -- I haven't gone back and looked at the numbers myself yet.

MALE PARTICIPANT: Okay. We'll talk to you in the morning.

FRED: Very good. Have a great night. Sorry to keep you up.

MALE PARTICIPANT: Not a problem. See you later. Thanks.

(Whereupon, at 1:51 18, the conference call was concluded.)

(ELAPSED TIME: 5 minutes, 11 seconds.)

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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MALE PARTICIPANT: -- our views and they want our independent views. But if the RSC can look at it and if the answer that comes back is it's gibberish, we can't make any sense out of that, that's an okay answer too.

FEMALE PARTICIPANT: Can I ask a question?

And that is they do have some information like the

(b)(5)

to the parameters that they see on the instrument and have they validated that at least that it is in general --

MALE PARTICIPANT: This is all in the reactor building, (b)(5)

(b)(5)

for is the spent-fuel, right?

MALE PARTICIPANT: (b)(5)

the limit of the plume. And they're relying on that (b)(5) to tell us that they're confident that all the pools are less than 100° C, and we just don't have any comfort level with that.

MALE PARTICIPANT: Yes, (b)(5)

never set up to measure temperatures in reactor buildings.

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1 FEMALE PARTICIPANT: I'm not suggesting it
2 to be that precise.

3 MALE PARTICIPANT: How do you --

4 FEMALE PARTICIPANT: Well, can I finish,
5 please? Sorry.

6 But there can be based (b)(5)
7 information adjustments made based on the material

8 (b)(5)
9

10 all of the different structure. That would at least
11 give you order of magnitude.

12 (b)(5)
13

14 MALE PARTICIPANT: We answered this

15 (b)(5)
16

17 that's it. That's what they told us anyhow.

18 MALE PARTICIPANT: All right. So where
19 are we on the data?

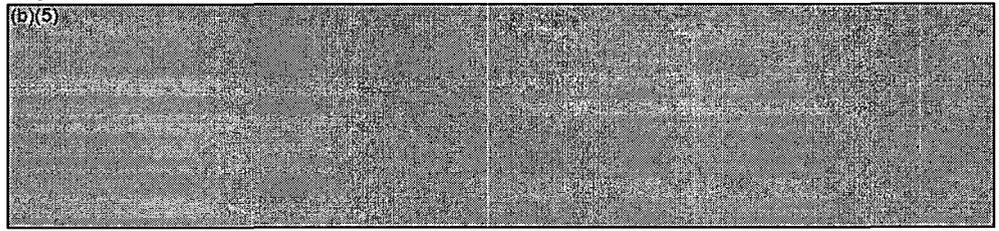
20 MALE PARTICIPANT: They need to -- Mike,
21 they need at least second verification of the data.
22 These instruments are questionable, untrustworthy.

23 So -- but I don't think that's the urgent
24 problem today. I think what we have to do with that
25 down the road is ask them what data do they need. We

1 already know. RCS pressure temperature, that kind of
2 stuff is --

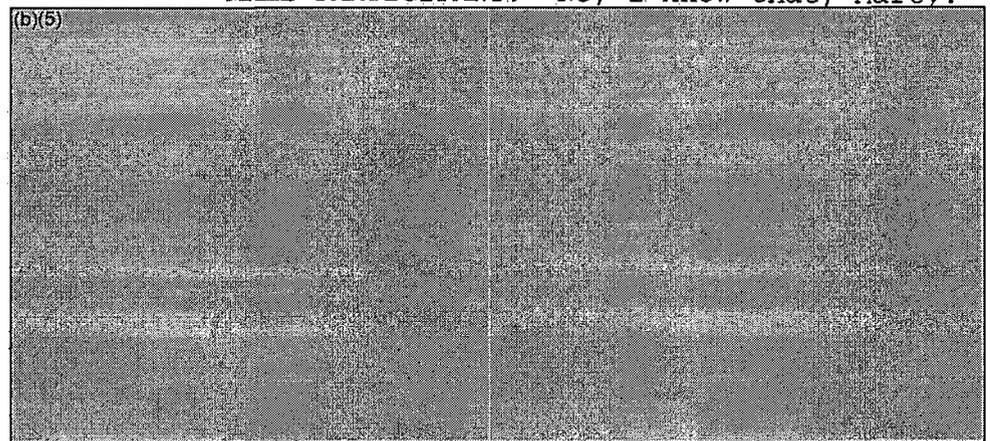
3 MALE PARTICIPANT: We're looking through
4 the wrong end of the telescope. I mean, we can't help
5 them with that data. They've got to help us with that
6 data.

7 MALE PARTICIPANT: What I'm saying is they
8 have to identify what they need, and we can maybe come
9 up --



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MALE PARTICIPANT: No, I know that, Marty.



20 MALE PARTICIPANT: We do see steam from at
21 least two units. Or we assume it's steam. So we know
22 something's boiling somewhere. We can only assume
23 that it's the spent-fuel pool or some kind of leak
24 from the containment. We have no idea how to tell
25 which is which.

1 MALE PARTICIPANT: Well, the immediate I
2 think -- their immediate need from us is one severe
3 accident management guidelines which we've got here.
4 But we've got a lot of information. We need to
5 condense it down into something that we could suggest
6 to them.

7 MARTY: Right. And if they can give us
8 some detailed information on radiation fields inside
9 the plant relative to the location of equipment, we
10 could help them design some viable strategies. But --

11 MALE PARTICIPANT: So what we just got --
12 what you're talking about, Marty, we just got from
13 them today a much, much better plot of external to the
14 reactor building's radiation field. So we'll ship
15 that out to you guys. It's not going to allow them to
16 get to the equipment. But it'll allow them to get to
17 doors and that kind of stuff.

18 MALE PARTICIPANT: They should already
19 have it actually. This is part --

20 FEMALE PARTICIPANT: Yes. We have it.

21 MALE PARTICIPANT: You guys have that?

22 MALE PARTICIPANT: What would also help is

23 (b)(5)

24 know the configuration of the equipment within the
25 structures, at least how it was supposed to be

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1 configured before the explosion. So we look at hot
2 spots, et cetera, but we can't pinpoint where those
3 hotspots are because we don't know the geospatial sort
4 of layout of the building. Just a basic overhead
5 drawing of what -- where's the pool, where's the
6 reactor, where's the --

7 MALE PARTICIPANT: We can get the
8 schematics from the EPSTAR (phonetic). That would do
9 it for you.

10 MALE PARTICIPANT: I'm talking basic
11 stuff.

12 MALE PARTICIPANT: Yes. Reports indicate
13 that they've actually tried restoration of some
14 equipment. Do we know what they've eliminated, what's
15 not available at this point in time based on damage
16 from the accident?

17 (b)(5)

18
19
20 MALE PARTICIPANT: Yes. They said it's --
21 they've got to go down the cables, they've got to take
22 out the breakers, they've got to check for shorts --
23 all that kind of stuff. So --

24 MALE PARTICIPANT: Replace motors.

25 JOHN: Yes. In the long term, they want

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1 to go there. But they said it's going to take a long
 2 time to get -- but the other thing we said to them and
 3 I think it was the deal with TMI, it's one thing to
 4 start off injection systems but it's another to start
 5 up closed-looped RHR-type systems. I'm pretty sure at
 6 TMI they made a deliberate decision not to start up
 7 those systems because you don't want the fuel pellets
 8 throughout the reactor building. It's going to be hot
 9 as anything now. Once you start spreading that
 10 contamination all over the place, they may --

11 MALE PARTICIPANT: All right, John, what,

12 (b)(5)
 13
 14
 15
 16

17 MALE PARTICIPANT: -- and you gain
 18 control.

19 But really what I'm hearing from you is
 20 that that's a long, long-term strategy, and in the
 21 near term, we need to continue to be focused on things

22 (b)(5)
 23

24 MALE PARTICIPANT:

(b)(5)

25 (b)(5)

(b)(5)

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1 [REDACTED] (b)(5)

2 MALE PARTICIPANT: Right.

3 MALE PARTICIPANT: Because they would have
4 to walk through damaged equipment. And if you look at
5 those buildings, there's no chance on Unit 3 for
6 instance -- yes, Unit 3 -- that you can get the spent-
7 fuel pool cooling system running or CCW running or
8 RBCCW running -- any of those systems on there. I
9 mean, you might have a chance on Unit 2. And that's
10 why they prioritized power to Unit 2. You might have
11 a chance on Unit 2. But you certainly don't on 3 or 1
12 have any chance of using plant equipment. We knew
13 that they were --

14 MALE PARTICIPANT: [REDACTED]

15 [REDACTED]
16 [REDACTED] (b)(5)
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]

20 MALE PARTICIPANT: There's a reason
21 they're putting it on because they -- we all know
22 power is good. But there's another reason we can talk
23 about. But power is good. It's always good. And
24 they can use it to power temporary equipment that they
25 put out there. They've talked about putting in a

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1 temporary -- a portable switchgear unit out there so
2 that they can run for instance a cable for this punt
3 for the original water pump --

4 MALE PARTICIPANT: The battery chargers.

5 MALE PARTICIPANT: -- battery charges. So
6 power is good. You can never go wrong with power.
7 But it is not the immediate solution to starting ECCS
8 or spent-fuel pool cooling. We've known that.

9 [REDACTED]
10 (b)(5)

11 [REDACTED] (b)(5)

12 (b)(5)
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]

16 Also, they had to shut those fire trucks
17 down or they'll burn up. So they cycled back and
18 forth between spray and power.

19 But we knew that they would have go hand
20 over hand on the electrical system to restore any kind
21 of piece of equipment.

22 MALE PARTICIPANT: [REDACTED] (b)(5)

23 design for providing water to the spent-fuel pools.
24 What are we doing to provide a more reliable source of
25 water to the reactor?

1 MALE PARTICIPANT: The seawater is swap
2 over. And that's why we've got this cable issue. Now
3 we just learned an hour ago that they've got a broken
4 cable to that original fuel pump -- that they have a
5 damaged cable to that pump.

6 (b)(5)

7
8 (b)(5)

9
10 we're --

11 MALE PARTICIPANT: Going to the condensate
12 storage tanks.

13 MALE PARTICIPANT: -- going to the
14 condensate storage tanks. And we'll fill the
15 condensate storage tanks with water, and then from
16 there we'll try to fill the spent-fuel pools with
17 condensate storage transfer pumps and trying to fill
18 the spent-fuel pools and the reactors. But that's a
19 long process. But the priority for that is the
20 reactor fill.

21 MALE PARTICIPANT: Can I ask a simple
22 question. So I've never heard a clear explanation.
23 What is actually being used to inject seawater into
24 the reactor vessel? What is that system? Is it a --

25 MALE PARTICIPANT: I think they're using

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1 fire trucks.

2 MALE PARTICIPANT: It's piggyback fire
3 trucks.

4 MALE PARTICIPANT: Piggyback fire trucks

5 --

6 MALE PARTICIPANT: Because they need the
7 MPSH from the ocean.

8 MALE PARTICIPANT: Okay. So great. So
9 they're using fire trucks intermittently to provide
10 cooling to the reactor, and then they're coming off of
11 that and then using it to spray water on top of the
12 fuel --

13 MALE PARTICIPANT: No, no, no. I confused
14 you. They're continuous feeds to the reactors with
15 fire trucks and seawater. The spent-fuel pools --
16 they're alternating fire trucks and they're using fire
17 trucks for a while because there are different fire
18 trucks. And they also have cement-pumping trucks.

19 MALE PARTICIPANT: Okay.

20 MALE PARTICIPANT: It's complicated. But
21 they shut those down while they work on electrical
22 power.

23 MALE PARTICIPANT: Got it.

24 MALE PARTICIPANT: They cycle back between
25 electrical -- working on electrical and spraying the

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1 spent-fuel pool.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: But we've never seen a
4 back-of-the-envelope sketch on how they're getting the
5 seawater into the reactors.

6 MALE PARTICIPANT: I think we saw a video
7 -- like a TV video or something where we saw the fire
8 trucks --

9 MALE PARTICIPANT: We don't know where
10 they're actually hooked up to.

11 MALE PARTICIPANT: Did they tell us that
12 the other day?

13 MALE PARTICIPANT: I mean --

14 FEMALE PARTICIPANT: (inaudible) what --

15 MALE PARTICIPANT: They were going through
16 the RHR.

17 FEMALE PARTICIPANT: (inaudible).

18 MALE PARTICIPANT: Why can't they take the
19 fire trucks that are pumping from the ocean and use
20 them to pump from the dam?

21 MALE PARTICIPANT: It used to be course
22 spray and then it was (inaudible).

23 MALE PARTICIPANT: Didn't they tell us
24 they were using --

25 MALE PARTICIPANT: Basically Unit 1 -- the

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1 make-up water is going through the course spray. For
2 Units 2 and 3, the make-up water is going through the
3 re-circ line through the jet pump nozzle.

4 You know, Unit 1 and Units 2 and 3 are
5 different.

6 FEMALE PARTICIPANT: Do they realize that
7 jet pumps are going to be clogging here any time soon?

8 MALE PARTICIPANT: That's a bigger gap
9 that the fuel orifice.

10 MALE PARTICIPANT: Yes. I mean, aren't
11 they three, four inches through the throat there?

12 FEMALE PARTICIPANT: I don't know off the
13 top of my head.

14 MALE PARTICIPANT: Yes, I think the fuel
15 orifice is the limiting component.

16 MIKE: Hey, Chuck and John, okay, can we -
17 - you've helped us understand a little bit about set
18 up. I wanting to move on to whatever else you have if
19 there's something else you need from us.

20 MALE PARTICIPANT: Yes, there is. Well,
21 as I said when we started, rather than brief this
22 twice, it may have seemed a little disjointed, Mike,
23 but we didn't want to repeat it twice and just give it
24 to you raw because we're on a short time frame. We
25 have a 9:00 o'clock meeting with them that we have to

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1 get them the severe management -- severe action manage
2 guidelines and some other documents that we have. But
3 also, a list of robotic equipment that we know is
4 available. Those are the two short-term products that
5 we need for them by 9:00 o'clock tonight.

6 MALE PARTICIPANT: And I'll bet you --

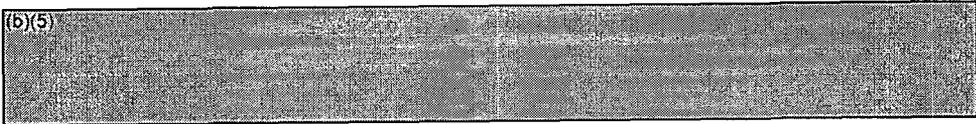
7 MALE PARTICIPANT: John?

8 JOHN: Yo?

9 MALE PARTICIPANT: So with respect to
10 robotics, you want us to what -- reach out to IMPO?

11 MALE PARTICIPANT: Hey, Mike? I think
12 probably 75 percent of this for the robotics has been
13 done probably and all the (inaudible) that the reactor
14 safety team has because we've chatted about it several
15 times. I mean, when we came out for the request for
16 the rad protection equipment and for the rad monitors,
17 et cetera, there were separate requests.

18 For example, you guys were shooting some



19
20
21 reactor safety team has some of it already.

22 MR. CASTO: We've been talking about
23 robots for some time. And I think somebody's looked
24 some of that. Or if you could reach out to IMPO.

25 MALE PARTICIPANT: Okay. Okay, Chuck. So

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1 we'll reach out to IMPO and see what they have and
2 what we've talked about with respect to getting you an
3 answer back. And you need that by?

4 MR. CASTO: Well, we're going over there
5 about 8:30 tonight, our time.

6 Mike, the radcon people at IMPO have
7 probably got some kind of lesson-learned, best
8 practice document on how to (inaudible) -- process for
9 reducing radiation exposure.

10 MALE PARTICIPANT: Yes?

11 MR. CASTO: And I don't know. Would that
12 help? Would that be --

13 MALE PARTICIPANT: Yes.

14 MR. CASTO: That may show some --

15 MALE PARTICIPANT: We'll ask. We'll just
16 ask.

17 MALE PARTICIPANT: We'll just ask, Chuck.
18 We'll find out what they've got. We understand we
19 need something to you in four hours.

20 MR. CASTO: Yes.

21 MALE PARTICIPANT: It may be greater than
22 four hours. But a good place for the robotics too
23 would be a Hanford and a Savannah River -- cleaning up
24 all those waste tanks. They sent in the robots to
25 scrape the bottoms and all that kind of stuff.

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1 MALE PARTICIPANT: And all we need is an
2 initial list. We don't need an exhaustive list. We
3 just need something to just start the dialogue.

4 MALE PARTICIPANT: Then that would be DOE.

5 MALE PARTICIPANT: That would be DOE.

6 MALE PARTICIPANT: Sort of reach out to
7 DOE and IMPO.

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: And I don't know if IEA
10 has something or not.

11 MALE PARTICIPANT: No, they don't do that
12 kind of stuff.

13 MALE PARTICIPANT: The other kind of
14 robotics like the SBI and that kind of stuff that go
15 in for the bombs, any of those type things, you're
16 just putting the gauge on it, you're putting a wrench
17 on it, you're putting a hammer on it.

18 There was a press story here that somebody
19 (b)(5)

20 Is that what you told me, Marty?

21 MARTY: Yes, yes. And then I read another

22 (b)(5)

23
24 MALE PARTICIPANT: Well, I bet if we give
25 it to ITO it'll meet somebody needs.

1 MARTY: Do you know what we're talking
2 about? T (b)(5)

3 (b)(5)

4
5 MALE PARTICIPANT: We can ask that
6 question.

7 MALE PARTICIPANT: To who?

8 MALE PARTICIPANT: (b)(5) --

9 (b)(5)

10 MALE PARTICIPANT: Offered, I think. I
11 don't know that it even made it there.

12 MALE PARTICIPANT: (b)(5)

13 (b)(5)

14
15 MALE PARTICIPANT: Okay.

16 MALE PARTICIPANT: Yes, we just heard that
17 today (inaudible).

18 MALE PARTICIPANT: Okay. If you get work
19 on that for us. And if you have anything on -- is
20 there anything that they should be doing with these
21 reactors right now that they're not doing right now?
22 I know there's a lot. They should be switching to
23 seawater. I mean, that may be an obvious question.
24 But if there's something we think based on this new
25 data that came in that Dan got that they should be

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1 doing, we need to know that.

2 MALE PARTICIPANT: Okay.

3 MALE PARTICIPANT: One last thing. So
4 there's a lot of information flying around between
5 coming out of Japan and various organizations there --
6 NETHA (phonetic), TEPCO, JAIF -- all these different
7 things. And then you've got over here on stateside
8 you've got NRC, DOE, State. Everybody's putting
9 together their little status charts on what they think
10 the current state of each unit is and their spent-fuel
11 pool. I can tell you there's a lot of frustration
12 here about what's reality -- what's ground truth. And
13 it sounds like we're even -- there's a little bit of a
14 disconnect even internally within our own agency about
15 what ground truth is. I guess --

16 MALE PARTICIPANT: I don't agree with
17 that. I mean, the ground truth changes all the time
18 based on the information we're given. We were given
19 in my opinion the best information today.

20 MALE PARTICIPANT: Okay. And so what I'm
21 about to propose, I'd like you to react to. So we're
22 doing our level best to try to keep up with all the
23 data that we're seeing and trying to capture that and
24 share it with the various parties including some of
25 our external stakeholders like Congress, for example.

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1 And I'm concerned that what we're providing isn't
2 consistent with what you all understand to be the
3 case. So I'm trying to reconcile that and come up
4 with a -- maybe it would be best if you all would give
5 us your best understanding of the condition of the
6 unit, and then we can shop that around and compare it
7 to the data that we have.

8 FEMALE PARTICIPANT: Well, we --

9 MALE PARTICIPANT: The problem is we're
10 bathing in our bath water here. Nobody has any good
11 data. And some people are just spreading around stuff
12 that's not -- I mean, we've had snapshot data and
13 stuff. They don't have any seriously valid data.
14 Nobody has any.

15 MALE PARTICIPANT: Okay. But what I'm
16 suggesting, Chuck, is that we at least be internally
17 consistent. And I'm not sure that we are.

18 MR. CASTO: (inaudible) wrong. Okay?

19 MALE PARTICIPANT: Well, I think we've
20 talked about some things. Yes, I think we've talked
21 about some things that we can do including sending you
22 the status sheet and that one-pager for you all to
23 react to. So we'll get you that.

24 And I know you're really busy. But to the
25 extent you could just put quick eyes on that and

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1 calibrate it, that will help us at least not go out in
2 a direction that is totally different from where you
3 think we ought to be based on your understanding of
4 what's going on at any time.

5 MR. CASTO: That's always good.

6 MALE PARTICIPANT: Okay. All right. So
7 we'll do that.

8 And we'll get answers back to the things
9 that you guys have requested in time to support your
10 9:00 o'clock deliverable.

11 MR. CASTO: Which means we leave here at
12 8:30 though.

13 MALE PARTICIPANT: Okay. So 2000, your
14 time -- 8:00 o'clock your time, we'll do our best.

15 MALE PARTICIPANT: That's three and a half
16 hours from now.

17 MR. CASTO: Thanks, guys.

18 MALE PARTICIPANT: All right.

19 MR. CASTO: Thank you.

20 MALE PARTICIPANT: Anything else, Chuck?

21 MR. CASTO: What's that about several
22 hours ago?

23 MALE PARTICIPANT: We should have sent you
24 a status several hours ago. So if you guys would go
25 on and --

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MR. CASTO: Yes, I heard -- yes, I think I saw an email on that. Everybody's been out this afternoon. There's been a lot of meetings. So we'll do the best we can to review that.

MALE PARTICIPANT: And Chuck, in addition to the status summary that we'll want some input on, we also sent you a list of all the taskers that we're currently carrying here that we owe deliverables back to you. We want to validate that list and make sure that it's accurate.

MR. CASTO: We'll -- Tony's handing me both lists right now. Tony is always the man on the spot.

So we owe you this, and you guys will work on that other.

MALE PARTICIPANT: Okay.

MR. CASTO: All right. Thanks a lot.

MALE PARTICIPANT: Thanks so much.

(Whereupon, at 2:13:25, the conference call was concluded.)

(ELAPSED TIME: 21 minutes, 53 seconds.)

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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MALE PARTICIPANT: Chuck (inaudible)
coming on the ET conference.

MALE PARTICIPANT: Yes, Chuck?

FEMALE PARTICIPANT: (inaudible).

MALE PARTICIPANT: Chuck, you there?

MR. CASTO: Yes, I'm here.

Help me out with something. On this
(inaudible) status summary page, we have a lot of data
that's by JAIF and IEA.

MALE PARTICIPANT: Right.

MR. CASTO: And all these.

MALE PARTICIPANT: Right.

MR. CASTO: Is there a reason we put this
out?

MIKE: Well, this is for our own internal

--

MR. CASTO: You don't think this is
getting out? Is this the stuff we're talking about we
need to be consistent with?

MIKE: Yes. What we're doing with that
status sheet is we're using it to brief -- these
various briefings that we give, we're giving that as

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1 | basic background information. And we're getting
2 | questions to that level of detail.

3 | MR. CASTO: I know, Mike. I know, but I
4 | mean, this is from like the Japan Industrial Forum and
5 | IEA. When we go to them on Thursday, we've got to
6 | brief Admiral Willard (phonetic) on where this data
7 | comes from. (b)(5)

8 | saying it came from JAIF.

9 | MIKE: But Chuck, what we've been
10 | (inaudible) about since we got off the phone is maybe
11 | ought to just stop chasing this data and trying to get
12 | it to be more accurate and focus on something like --
13 | we have the (b)(5) that we're going to be
14 | providing to provide water to the spent-fuel pools,
15 | right?

16 | MR. CASTO: Right, right.

17 | MIKE: Why can't we just focus on a system
18 | that's like that should provide a reliable source of
19 | freshwater for the reactor vessel?

20 | MR. CASTO: Right.

21 | MIKE: Shouldn't that be our focus as
22 | opposed to trying to refine this data that is probably
23 | not ever going to be able -- we're not ever going to
24 | be able to refine it.

25 | MR. CASTO: Right. And it's very dubious

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1 in its source.

2 And now we have some good data. We have
3 this -- today is the first day we have data from NISA.

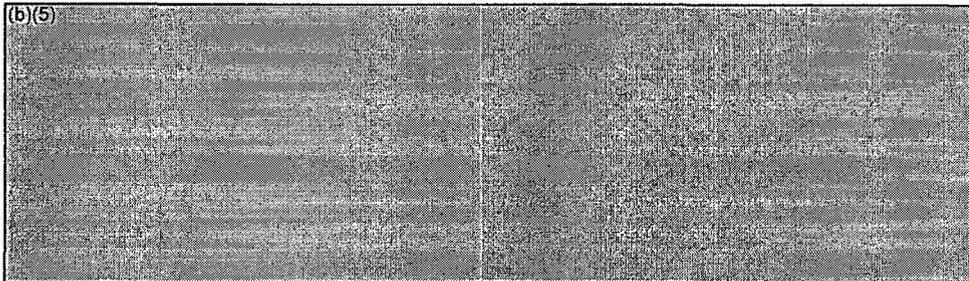
4 And I'm okay with maybe putting that data on here.
5 But ^(b)this stuff here is just --

6 MIKE: Sorry. Chuck, the primary
7 motivation for providing any of that data was provide
8 at a high level information to people about what's
9 going on with the core and what's going on with the
10 pool. So to the extent we have information that we
11 can provide that is not problematic, I'm willing to
12 take whatever changes -- we'll make whatever changes
13 you think are appropriate to do that.

14 But we're continually getting questions
15 about it.

16 MR. CASTO: Yes, and --

17 MIKE: (inaudible).



19
20
21
22 FEMALE PARTICIPANT: Well, that is because
23 there are all these other sources of data that are out
24 there and the Japanese Industrial Forum -- I mean, we
25 thought that that (inaudible) sort of IMPO was an

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1 accurate source.

2 MIKE: Well, as an example, I mean, DOE
3 puts out this big thing everyday that's got all that's
4 in there.

5 MR. CASTO: I know where that comes from.

6 FEMALE PARTICIPANT: Well, then we don't.

7 MIKE: We don't.

8 FEMALE PARTICIPANT: You need to tell us.

9 MR. CASTO: So it comes from this right
10 here. I mean, DOE gets everything that's in this room
11 everyday and pumps it out. That's what I'm saying.
12 We're bathing in our own bath water here. Everybody's
13 passing -- and Jim Wiggins (phonetic) said this last
14 night. Everybody's passing data around and modifying
15 it and hearsay and this and that. And we're just
16 bathing in it -- in our own bath water.

17 MIKE: Okay. How can we --

18 MALE PARTICIPANT: What do you think about
19 this notion about just moving on and getting an
20 engineered system that is reliable and will provide
21 long-term make-up to the reactor (inaudible)?

22 MR. CASTO: Yes, that's the important
23 thing. The important thing is I don't know that
24 anybody even knows -- I mean, if you're briefing some
25 senior-level person (b)(5) You saw the

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1 briefing sheet we made up for him. This was exactly
2 what he wanted. I mean, it's a high-level thing. He
3 doesn't want to know what reactor pressure is.

4 FEMALE PARTICIPANT: But we don't
5 (inaudible).

6 MALE PARTICIPANT: (inaudible).

7 MR. CASTO: Yes, you guys get it everyday.
8 We made up that matrix the other day, and I think we
9 send it in everyday.

10 (inaudible), do we send that matrix in
11 everyday - (b)(5) Or is it in a file?

12 FEMALE PARTICIPANT: I have it here on
13 (inaudible). (inaudible) for a while.

14 MR. CASTO: We sent it in like the first
15 couple days or something like that. We haven't sent
16 it in.

17 MALE PARTICIPANT: That would be great if
18 we could get it.

19 MALE PARTICIPANT: (inaudible) that would
20 help.

21 MR. CASTO: Send them the latest. But let
22 me look at it before you send it in because I want to
23 make sure it is actually the latest.

24 But yes. Remember last week we made up a
25 sheet and Brooke sent it to you guys. It had

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1 equipment status on the bottom of it and it had a
2 matrix of the reactor and spent-fuel pools.

3 MALE PARTICIPANT: Yes.

4 MR. CASTO: I mean, that to me -- anybody
5 that really -- I don't know how to say this -- anybody
6 in the policy decision making process, this is all
7 they need. And the other people are just engineers
8 that are just curious --

9 MIKE: Okay.

10 MR. CASTO: -- when they want specific
11 data. They just want to be engineers and fix the
12 problem. And they're just going to read that data and
13 analyze it and tell you you need to do something.

14 FEMALE PARTICIPANT: Well, I guess I don't
15 quite understand. So you're saying the data you're
16 providing us from TEPCO is accurate?

17 MR. CASTO: No. I'm saying we don't know.
18 And that's the problem with distributing it. We
19 don't know if it's accurate.

20 I mean, all you have to do is look at
21 those buildings. Does it look like any
22 instrumentation in there is going --

23 FEMALE PARTICIPANT: That's what we were
24 asking you and you were saying that you were going to
25 send up this data sheet.

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1 MR. CASTO: Yes. And today's the first
2 day we got it. And we can't assure that it's
3 accurate.

4 FEMALE PARTICIPANT: Okay.

5 MIKE: Okay.

6 MR. CASTO: So I don't know. But you guys
7 just ponder it there and figure out what we want to

8 (b)(5)

9
10 MIKE: Okay. Hey, Chuck? So we're
11 actually looking at that summary that you're talking
12 about. So we'll get what you send us -- what you're
13 sending that you say you give to the Ambassador. And
14 we'll take a run at trying to update -- at least for
15 that summary sheet -- something that doesn't cause you
16 the kinds of concern that you have with what's
17 currently on the summary sheet.

18 And then I'm still confused about the
19 data. But maybe we're not going to get beyond that.

20 MR. CASTO: Well, I don't know, Mike. I
21 don't know that I can help you.

22 I think if you look at the reactor
23 buildings, there's no way anybody's getting any
24 accurate data out of those reactor buildings.

25 MIKE: I know. That's why I don't why

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1 TEPCO -- I don't know how TEPCO -- I don't know how
2 that helps.

3 MALE PARTICIPANT: We're struggling
4 because we know that TEPCO is on the site doing stuff.
5 And so at the very least, they must have dose
6 readings from --

7 MR. CASTO: Yes. And we got that dose
8 reading chart. But there's nobody going in that
9 building to read a gauge.

10 MALE PARTICIPANT: No, I understand that.
11 But they must know -- somebody must know there's a
12 hole in the containment or there's not a hole in the
13 containment.

14 MR. CASTO: No, they're not sure of that
15 because the blast that they heard was down in the
16 torus area of Unit 2. And now the radiation levels
17 are so high. And they did see on their way -- one of
18 the trips they made down there, they saw pipes broken
19 off.

20 MALE PARTICIPANT: Okay. So --

21 MR. CASTO: But now here's the problem
22 with that, they didn't tell you whether it was a two-
23 inch pipe or a 20-inch pipe.

24 MALE PARTICIPANT: We can't even get a
25 clear understanding of is it steam or is it smoke.

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1 MR. CASTO: Right.

2 MALE PARTICIPANT: They think it's steam.

3 MR. CASTO: Right. But --

4 MALE PARTICIPANT: The NISA report that
5 says smoke.

6 MR. CASTO: And what it looked like to us
7 was smoke. It looked like a hydrocarbon fire.

8 The reactor building in that vintage --
9 BWR and theirs -- the (inaudible) sets were in the
10 reactor building. So you've got 100s of gallons of
11 lube oil in there. So you lots of lube oil in that
12 reactor building.

13 MALE PARTICIPANT: Okay.

14 MR. CASTO: And that's what they said
15 originally on Unit 2. They said well, it wasn't the
16 torus. It was a lube oil fire -- the explosion.
17 Well, lube oil doesn't explode. It burns.

18 MALE PARTICIPANT: If you atomize it and
19 light it (inaudible).

20 MR. CASTO:

21 (b)(5)

22
23 So -- but -- hey, Jim, don't you remember
24 the movie My Cousin Vinny when he asked that woman
25 about her grits -- cooking her grits? How long it

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1 takes you to cook grits in your kitchen. Anyhow. You
2 guys have got to watch more movies.

3 MALE PARTICIPANT: I love that movie. But
4 I can't remember what you're referring to.

5 MR. CASTO: I don't know. One of the
6 guys, they were cooking grits and she said something
7 about it takes me five minutes. And she said no, no.
8 Good grits. That's instant grits or something like
9 that she said.

10 MALE PARTICIPANT: Yes. Good grits take
11 20 minutes.

12 MR. CASTO: Yes. And he said unless the
13 laws of physics don't apply in your kitchen.

14 MALE PARTICIPANT: Yes, that's right. I
15 remember that now.

16 MR. CASTO: Yes, yes.

17 All right, guys. Hey, we'll figure it
18 out. But the bottom line is today was a good day.
19 Okay? Let's not lose and get wrapped up in this data
20 stuff because we don't want to lose the spirit that we
21 had a very productive day. The pumps may get used.
22 Tony did a wonderful job with TEPCO and the salt
23 (phonetic). And then we had a cabinet meeting that
24 got everybody together and got all the organizations
25 together. So it was a productive day.

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MALE PARTICIPANT: Okay.

MR. CASTO: And we have a 9:00 o'clock.
Talk to you later.

MIKE: All right. We'll get you something
(inaudible).

MR. CASTO: All right. Bye.

(Whereupon, at 2:23:48, the conference
call was concluded.)

(ELAPSED TIME: 10 minutes, 4 seconds.)

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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MALE PARTICIPANT: (inaudible) coming up
on the ET conference.

MR. CASTO: Good evening -- good morning.

MARTY: Good morning, Chuck.

MR. CASTO: Marty, I wanted to catch you
guys before you got off shift if you have time.

MIKE: Yes.

MR. CASTO: I don't have any really big
demands for a change. But I do want to give you a
little briefing.

MIKE: Okay.

MR. CASTO: I've been remiss in keeping
you up on some things. And I know that scares you.
But I don't think anything here will hurt you. But I
realize that I haven't been keeping you up on a couple
of areas from the staff meeting. So I wanted to do
that tonight. I got to give you a little bit of
background from the embassy perspective. I attend two
staff briefings a day. And I just thought this was a
good night to give you a little bit of background.

We've provided briefings to the dependents

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1 in town hall meetings before the dependents left. And
2 we've continued to provide briefings and town halls
3 for employees every couple of days. And we had one
4 today that -- (b)(5)

5 (b)(5)

6
7
8 that around, mainly around reactor people. And that's
9 been a good PR thing for us. And everybody's done a
10 great job with it.

11 With regard to visas, I think -- don't
12 hold me to these numbers -- but in the two weeks prior
13 to the event, there were in the low tens of emergency
14 visas to leave the U.S. And since the event, they've
15 had just over 450 emergency visas to leave here. I
16 don't know what I said before. I said U.S. Emergency
17 visas to leave Japan.

18
19
20 (b)(5)
21
22
23

24 One of the things I have to check on is I
25 have to -- I don't know we can do this or you can do

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1 this. The Embassy's posting reactor data. I found
2 this out tonight on the Embassy web page. I really
3 need to take a look at that Embassy data that they're
4 posting to make sure that it's accurate.

5 As far as KI, today was the first day of
6 KI. And I didn't get numbers on how many people came
7 for KI. They had tables set up around the Embassy,
8 and people could come in -- Americans could come in
9 and pick up KI. I'll try to find out what the numbers
10 were.

11 MARTY: Chuck, this was for distribution
12 and not administration?

13 MR. CASTO: Right. For distribution.

14 There are also -- that's a little bit of a
15 rough process. I mean, people have to come to the
16 Embassy. I think they had two distribution points in
17 Tokyo. And that's a rough process. So they're trying
18 to look at when the Americans who gave Swine flu
19 vaccination, they integrated into the Japanese
20 distribution system. So they're looking at shouldn't
21 we do that same model.

22 The narrative -- I'll switch to another
23 topic -- but somewhat related but to another topic.
24 The narrative we've been following this week is -- and
25 just to be blunt, the narrative it's kind of is

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1 America cutting and running which is far from the
2 truth. We're being prudent with American citizens or
3 the Embassy's being prudent with American citizens.
4 But all the alliance support and all of the military
5 and rescue efforts continue just as strong as ever.
6 And the Ambassador's going up north tomorrow to
7 demonstrate that support for Japan.

8 And related to that, the GW departure
9 yesterday -- I think it was yesterday that the GW
10 departed. That's part of that narrative because I
11 think if you look at the press release on it, GW's
12 departure. One of the things, I think there was some
13 refurbishment or something going on a GW. And so,
14 they had to re-position. One of the reasons -- I
15 mean, there was multiple reasons that GW had moved.
16 And of course one of the reasons was that we don't
17 want to put her in a plume of radiation. So they re-
18 positioned -- moved the GW.

19 And DOD and -- it's amazing with the
20 Embassy and DOD the use of Twitter. They're pushing
21 out all their Twitter followers and watching the
22 tweets and trying to judge public reaction. They did
23 get I think one bad story from CBS on the movement of
24 the George Washington.

25 MALE PARTICIPANT: (inaudible).

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1 MR. CASTO: And also they have a hotline
2 for health concerns from radiation. And well, there's
3 a little bit of concern about whether that's been
4 widely distributed -- that hotline. And it just stood
5 up yesterday or today. And they had a couple of hits
6 on the hotline today. But they're not sure they're
7 getting the message out on the hotline. It was an
8 announcement where to get KI and if you have any
9 concerns about your health on radiation, call this
10 hotline. So they're going to work on the messaging of
11 that and make sure that it gets broader distribution
12 about the health line.

13 That was pretty much it for tonight that
14 we need to talk about. And obviously there's a lot
15 more going on. But that was pretty much all that
16 related to us.

17 He talked a little bit about the prep for
18 the Admiral Willard brief on Thursday. He just looked
19 at me and wanted to make sure I was going to be ready
20 for that. So obviously that lit another fire under me
21 about we need to get something put together on that
22 briefing.

23 I infer from the conversations, the
24 Admiral wants -- like we talked about earlier.
25 Everybody's wondering what's the status of these units

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1 and why are we getting all this crosstalk on data.
2 And where's it coming from and who's got the real
3 story. So I suspect that he wants to pursue --
4 Admiral Willard wants to pursue where are you getting
5 your data from and what's it telling you.

6 MALE PARTICIPANT: Chuck?

7 MR. CASTO: Yes?

8 MARTY: If there's a way to deflect and
9 change the agenda to instead of focusing on the data,
10 focus on based on the available data, what are the
11 priorities for this site, we would be much better off.

12 MR. CASTO: Okay. Now who's working on
13 that brief for that prep? We can do it. I mean it's
14 not a problem for us to do it.

15 What I would do, Marty, is -- let me
16 think. I've got to think of my time zones here. I
17 would propose that we draft something, and then
18 tomorrow night we all refine it. And then Thursday
19 afternoon, we present it to Admiral Willard.

20 MARTY: We could leave that as a turnover
21 item for the next two shifts, and then we can finish
22 it up when we come back.

23 MR. CASTO: Yes, that's what I was
24 thinking that if we give those shifts a heads up that
25 we're going to need help on -- obviously DOD in the

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1 meeting this afternoon was chomping at the bit and

2 (b)(5)

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11 meeting tonight. So they're just waiting for the
12 Japanese to -- I mean, DOD in a big way this
13 afternoon. I think Admiral Willard sent in a general
14 and an admiral to work here -- work this issue.
15 That's a lot of horsepower. And they certainly
16 stepped forward this afternoon in that meeting which
17 is fine. We don't have any problem with that. I
18 think having the Seventh Fleet work with MOD is
19 perfectly appropriate, and us consulting. I see a
20 good model there where the Seventh Fleet consults with
21 MOD, we consult with NISA and TEPCO -- provide them
22 insight. And MOD and the Seventh Fleet enact whatever
23 it is that needs to be done.

24 Additionally I think what I heard tonight

25 from upstairs,

(b)(5)

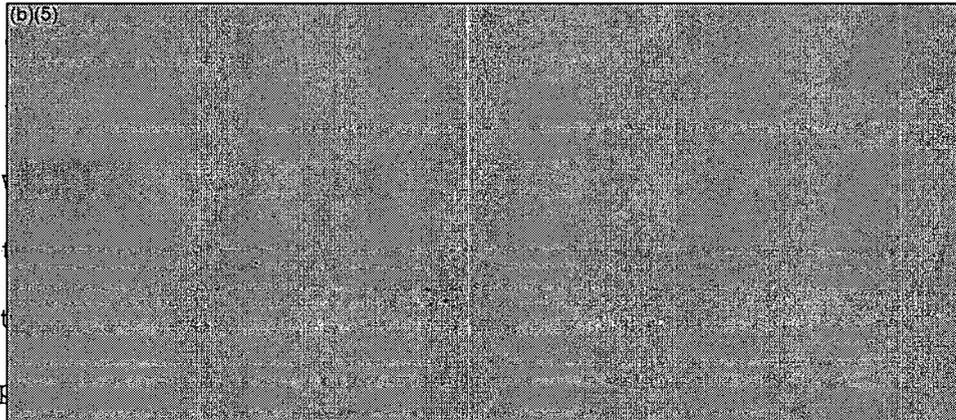
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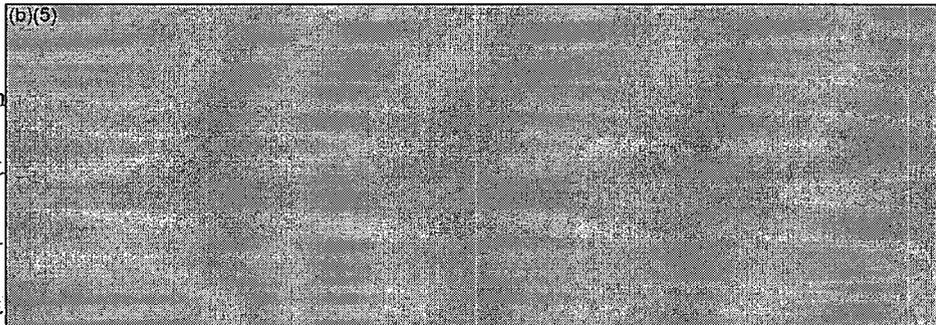
1 of structure -- this was vague to me. I might have to



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8 needs. I think the pumping issue just got too much.
9 It was too hard and too much visibility in terms of it
10 just took too much. Tuesday was too slow and had too
11 many agencies and too many barriers. And was managed
12 at way too high of a level.

13 MARTY: Chuck, I thought that was why we
14 had a consortium and we were pushing for government
15 lead. Isn't that (inaudible) problem?

16 MR. CASTO: Oh, you mean -- well, that's
17 on the Japanese side. Are you talking about what the
18 Cabinet approved yesterday? The Japanese Cabinet
19 approved a project management team and three
20 subcommittees to work the issues.



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done.

So from what I heard tonight in the staff meeting, they were talking at the White House about there's too many people involved, too much involved at too high a level to do this. The (inaudible) is get equipment and move it in here on nuclear issues.

All this is well refined on -- because you all know better than I do. I haven't been involved in it as much as you all have. But this is all well refined on disaster relief and dark teams and USAID. That process in the executive branch is well refined.

(b)(5)

And I think the inference I took from the conversation was on nuclear issues they need an integrator so that the things don't have to go to the

(b)(5)

it -- from the conversation. The conversation was the

(b)(5)

level, and they want to set up some kind of organization or person to coordinate it.

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1 MIKE: Okay, Chuck. You've given us
2 enough to think about on that. We're going to need a
3 sidebar to understand better.

4 MR. CASTO: Yes, I will too, Mike. I'll
5 have to circle back up and find out what that's all
6 about.

7 MIKE: Okay.

8 MALE PARTICIPANT: If I could just have
9 some clarity here. The Chairman sent an email to the
10 (b)(5) And I think
11 that's where it's kind of looping back around. So it

12 (b)(5)
13
14

15 MR. CASTO: Yes. And I think maybe that's
16 a good insert there. But perhaps they're saying we
17 should provide the NRC with somebody to go to so that

18 (b)(5)
19

20 But that's way above my pay grade. We're
21 just dealing with this reactor out here.

22 Okay. I think that's it.

23 I don't know where we are on robotics.
24 We've got some sheets on robotics in here. I've got
25 at least something to take to them tonight.

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We've got severe action management guidelines.

MALE PARTICIPANT: Chuck?

MR. CASTO: I think we have a lot. We have four or five big notebooks full of severe accident. And we've pulled together some talking points to summarize what's in those guidelines and what they should focus their attention on within the severe accident management guidelines. So I think we can point them to the right direction there.

MALE PARTICIPANT: Hey, Chuck?

MR. CASTO: I feel real comfortable with that, I think. That'll work.

Also talking about the feedback loop, they called over -- (b)(5) -- called over here after we left and they wanted feedback on the meeting. And they asked the executive director -- the chief of staff -- about the meeting and what we felt about the meeting. And we were obviously elated and positive with it. So we passed that back to them that the meeting went very well.

(b)(5)

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3 (b)(5)
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6 I think it's been improving over -- each
7 day it's gotten better. And this can only serve to
8 open up that pipeline completely. So we look forward
9 to a lot more success and a lot more frank dialogue.

10 MIKE: That's great, Chuck.

11 Hey, I'm sorry, was that --

12 MR. CASTO: That was it, Mike. I'm sorry.

13 MIKE: No, no. I was going to tell you --
14 I have two or three things I want to tell you rapid
15 fire if we can --

16 MR. CASTO: Okay.

17 MIKE: -- before you have to go.

18 One is the reactor safety team wants to
19 tell you something about Unit 1.

20 FEMALE PARTICIPANT: Yes, we --

21 MR. CASTO: That should be good.

22 FEMALE PARTICIPANT: Yes, we have some
23 information although it's uncorroborated. And it was
24 out of WANO (phonetic) that something about Unit 1 is
25 750° Fahrenheit in the reactor vessel.

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1 MR. CASTO: Remember tonight we told you
2 they told us it was 300°? We assumed that was C. But
3 it may have been Fahrenheit. I don't know. We have
4 to figure that out because you said it was seven what?

5 FEMALE PARTICIPANT: 750.

6 MR. CASTO: 750.

7 FEMALE PARTICIPANT: Fahrenheit.

8 MR. CASTO: Wait a minute. I'm sorry. I
9 lost you.

10 750 Fahrenheit?

11 FEMALE PARTICIPANT: Yes.

12 MR. CASTO: Okay.

13 MIKE: So that would make that unit a
14 priority, Chuck. So I wanted to pass that on to you
15 so you can have that on the things that -- another
16 thing to worry about.

17 MR. CASTO: Yes. By them giving us a
18 number tonight -- this is the first time they gave us
19 a number on Unit 1. And that number didn't make sense
20 to us. But if that number's true, obviously --
21 remember earlier we told you it was uncorroborated and
22 we didn't want to run off on that number? They had
23 told us -- what did I tell you 300° C or something
24 like that.

25 MIKE: Right.

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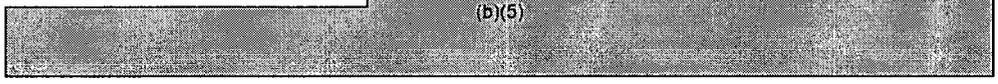
MR. CASTO: This number's even bigger.
Okay?

MIKE: Okay. All right. So the second thing we wanted to tell you is we are going to send you robotics information. We've been working -- we've gotten a good update. And we're pulling that together. We're going to send you something in addition to what you already have on robotics.

MR. CASTO: Great. Great.

Hey, tell me what I need to do about 750°.

FEMALE PARTICIPANT: Well, get more water in there.

MIKE: 
 (b)(5)

MR. CASTO: With what?

FEMALE PARTICIPANT: I don't know. But that's the --

MIKE: (inaudible) they've been using up to now.

FEMALE PARTICIPANT: Yes. I mean, if they got to put priority --

MR. CASTO: A fire truck?

MIKE: If that's all they got.

MR. CASTO: A fire truck's not going to pump 2,000 pounds or more.

1 FEMALE PARTICIPANT: Well, I mean, it may
2 be --

3 MR. CASTO: It's the reason they burn up
4 the fire truck before.

5 FEMALE PARTICIPANT: They may be -- again,
6 it just may be the fuel temperature is that hot and it
7 may not be that high of a pressure.

8 MR. CASTO: Okay. Here's what I'm going
9 to do. Tonight I'm going to ask them directly what is
10 the temperature in Unit 1. And I don't know if they
11 think this is fuel temperature or if they think this
12 is water temperature, vessel temperature -- what
13 temperature is this?

14 MIKE: Okay.

15 MR. CASTO: So I'll ask them what the
16 temperature is.

17 FEMALE PARTICIPANT: Yes. Because if
18 they've got the release from the vessel open and
19 they've got this steaming and it's going to the
20 suppression pool, then the back pressure will be
21 dominated by what the suppression pool temperature is.

22 MR. CASTO: Yes.

23 FEMALE PARTICIPANT: Okay. So they may be
24 at a pressure not much above atmospheric. Again we
25 don't know because we don't really have any data. So

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1 it just may be fuel temperatures.

2 MR. CASTO: I'll ask them directly at 9:00
3 o'clock.

4 MIKE: Okay.

5 FEMALE PARTICIPANT: But, yes. They
6 should be putting a lot of water -- as much as they
7 can -- in that unit.

8 MR. CASTO: Yes. Well, that's a problem.
9 But okay.

10 FEMALE PARTICIPANT: But if they need to
11 reduce pressure to accommodate the low head of
12 whatever (inaudible) they're using to pump, then that
13 could also be a consideration. But of course that
14 means venting.

15 MR. CASTO: Okay.

16 MIKE: All right.

17 MR. CASTO: Anybody else?

18 MALE PARTICIPANT: Yes. A couple of other
19 things, Chuck.

20 One is we got a bunch of questions from
21 TEPCO to the reactor safety team that are really
22 questions I think that -- we think that JNES
23 (phonetic) for example ought to be able to answer for
24 them. They're typical questions you would give to
25 your TFL or to your technical organization. Are you

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1 in contact with JNES, or how does that work?

2 MR. CASTO: I haven't heard anybody talk
3 to JNES. We've talked to MEDI (phonetic) and -- MEDI
4 and who else? But I don't think it was JNES.

5 FEMALE PARTICIPANT: Yes. There's just a
6 --

7 MR. CASTO: These are the questions Tony
8 sent in?

9 FEMALE PARTICIPANT: No. These were --
10 Van Dorman (phonetic) was on the email. But Tony may
11 have sent them in. But there's like 11 (inaudible).
12 But --

13 MR. CASTO: Is it about salt?

14 FEMALE PARTICIPANT: No. That was a
15 subset of them. No, this involves whether or not they
16 should be worrying about radiolysis generating
17 hydrogen, should they be worried about criticality in
18 the core.

19 MR. CASTO: Yes. And all that's stuff
20 what we're providing tonight. And let them -- I mean,
21 I would let them deal with that based on all the
22 references we're providing. We're providing five or
23 six references on severe accident tonight. (b)(5)

24 (b)(5)

25 MALE PARTICIPANT: So they're going to

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1 work. Okay.

2 FEMALE PARTICIPANT: Okay. So that's my
3 question. Do you want us to write up the (inaudible)
4 because we were getting overwhelmed at this point
5 keeping up.

6 MR. CASTO: Let me talk to Dan. I think
7 those questions are answered in the references that
8 we're providing them tonight.

9 FEMALE PARTICIPANT: Yes. Some of them
10 are judgment calls. But certainly the hydrogen
11 generation from radiolysis is going to be in there
12 yet.

13 MR. CASTO: Yes. We're providing that
14 tonight -- all that reference. So they should figure
15 it out themselves.

16 FEMALE PARTICIPANT: Okay. Great.
17 Thanks.

18 MALE PARTICIPANT: All right, Chuck. And
19 the last thing is we've got the table that you sent us
20 that you provided (b)(5) and we're using
21 that to update the status summary sheet that we have.
22 And it's helped us. But we're not at a point where
23 we're going away from the status summary sheet. So I
24 want to -- we'll send you the next version that we're
25 almost ready to hit the send button on. And

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1 hopefully, I'd go further towards doing something that
2 you're comfortable with. Of course, we'll take your
3 feedback and continue to refine it as we go forward.

4 MR. CASTO: Sure. The only thing, if we
5 add to it or something, I'd like to put it on a
6 different page because that sheet that we sent in is
7 exactly what he wants.

8 MALE PARTICIPANT: No, no, no. We're not
9 -- so we're taking that sheet and using that sheet to
10 tweak --

11 MR. CASTO: I got you. Yes, I got you.
12 I'm just telling you that that sheet that we sent you
13 is sacrosanct as far as what's on it.

14 MALE PARTICIPANT: I got you. We're not
15 messing with your -- we're not going to monkey with
16 your product.

17 MR. CASTO: Yes. Well, it's actually his.

18 But --

19 MALE PARTICIPANT: His product. Okay.

20 All right. Anything else?

21 MR. CASTO: You guys are doing great. I
22 appreciate it.

23 MALE PARTICIPANT: Yes, thanks, Chuck. We
24 thank you.

25 MR. CASTO: I'll tell you, Tony and Bill

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1 and all of those guys did a great job today. Bill's
2 been a yeoman on the pumping system. And Tony has
3 been doing a great job with TEPCO and the salt issue.
4 So great team.

5 MALE PARTICIPANT: We really sense from
6 the comments that you've made, Chuck, that you feel
7 like it was a success today. So that --

8 MR. CASTO: Yes, it was a big success. I
9 think they broke down all the barriers. And the
10 Cabinet sent out apparently. I mean, when you get a
11 Cabinet member at your meeting, that's a big deal.

12 MALE PARTICIPANT: Yes.

13 MR. CASTO: I mean, that's a big deal to
14 have a Japanese Cabinet member at your meeting and all
15 the departments there. I mean, that's a breakthrough.

16 And we had a bunch of people. We had the
17 USJF. We had everybody in there. That room was
18 packed with people.

19 (b)(5)

20 (b)(5) We pursued some technical questions. And
21 then we talked organization kind of stuff. And I
22 think it was a very highly productive meeting. And
23 so, hopefully tonight we'll have round two. And then
24 the Cabinet Minister said hey, let's figure out how to
25 continue this process. And I presume what he was

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saying continue its healthy without me. You know what I mean? He's not going to come to every meeting.

So guys, great job. I appreciate all the work you're doing back there.

MALE PARTICIPANT: Thank you, Chuck. We appreciate what you're doing.

MR. CASTO: Outstanding stuff, guys. Good team.

Talk to you later.

(Whereupon, at 2:50:38, the conference call was concluded.)

(ELAPSED TIME: 26 minutes, 46 seconds.)

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(CONFERENCE CALL INITIATED.)

MR. McDERMOTT: Ryan McDermott, Josh Beckin (phonetic) coming up on the EP conference.

MR. BECKIN: Good morning, everyone.

MALE PARTICIPANT: Good morning, Josh.

MR. BECKIN: How are you?

MALE PARTICIPANT: All right. How are you doing?

MR. BECKIN: All right.

MALE PARTICIPANT: Did you get some rest last night?

MR. BECKIN: I slept a little bit actually. It's an odd sensation.

MALE PARTICIPANT: Good for you.

MALE PARTICIPANT: (inaudible).

MR. McDERMOTT: Yes, I'm here.

MALE PARTICIPANT: Okay. I thought you were off today.

MR. McDERMOTT: I am. I'm just trying to not lose track of where we are.

MALE PARTICIPANT: Okay. Josh, you're up

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1 for the Chairman's brief?

2 MR. BECKIN: Yes. I thought I would just
3 listen in.

4 Are you going to call him or is he calling
5 in?

6 MALE PARTICIPANT: I think we're
7 initiating from here.

8 MR. BECKIN: Great. Thanks.

9 MALE PARTICIPANT: We're going through our
10 standard approach of staging minutes before and then
11 following up with a call (inaudible).

12 MR. BECKIN: All right.

13 (INAUDIBLE CONVERSATION FOR SEVERAL
14 MINUTES.)

15 MALE PARTICIPANT: The Chairman is coming
16 up on the EC conference.

17 MR. WEBBER: Okay. Thank you.

18 CHAIRMAN: Good morning.

19 MR. WEBBER: Good morning, Chairman. How
20 are you?

21 CHAIRMAN: Good. How are you?

22 MR. WEBBER: Good. Did you get some rest
23 last evening.

24 CHAIRMAN: I did.

25 MR. WEBBER: Great. I'm Mike Webber. And

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1 I'm leading the team here. And Mike Johnson I just
2 released. So we're going to give you a quick overview
3 of the status and current priorities for the team here
4 in the Op Center and our site team.

5 CHAIRMAN: Great.

6 MR. WEBBER: We've got some updated
7 information. Overall Units 1, 2 and 3 are reported to
8 be in a static condition, not much change from the
9 past. We did have some somewhat disturbing news about
10 elevated temperature in the core of Unit 1. According
11 to Chuck who got this information from a WANO source,
12 the temperature is reported to be about 750°, which
13 seems (inaudible) high for a shutdown plant.

14 CHAIRMAN: Yes.

15 MR. WEBBER: So we need to understand
16 that.

17 We still do not know the source of the
18 smoke from yesterday from Unit 3. And we're told of
19 smoke or steam now coming from Unit 2.

20 CHAIRMAN: Okay.

21 MR. WEBBER: So while yesterday other than
22 the smoke issue, we really were focused on other
23 things. Today our attention turns back to
24 understanding the current status of the plant and what
25 its safety significance is with respect to protecting

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1 U.S. citizens both in Japan and abroad.

2 CHAIRMAN: Okay.

3 MR. WEBBER: They did succeed in
4 connecting the external AC power for Unit 5. So of
5 course, the impression we have is the damage to Unit 5
6 was not as great as the other units. The diesels for
7 Unit 6 are still running. And they're doing various
8 cabling continuing today to hook up the other plants.

9 The viability of those efforts remains to
10 be seen for Units 1, 2, 3, 4. And so we're continuing
11 to work with our site team to focus on what kind of
12 mitigating action should be taken to restore cooling
13 for both the reactors and for the spent-fuel pool.

14 CHAIRMAN: Okay.

15 MR. WEBBER: Dose rate information shows
16 slightly declining dose rates which is positive. I
17 think you've seen the data. We have near fields on
18 the ground, recorded dose rates ranging anywhere from
19 60 mil R per hour up to 15 R per hour in the vicinity
20 of Unit 3.

21 CHAIRMAN: Okay.

22 MR. WEBBER: And the AMS flight that have
23 been grounded for the last couple days due to weather
24 conditions, I think they're anxious to get those
25 planes back up. But the data that we do have

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1 coordinated back through DOE continues to indicate the
2 suitability of the protective action recommendations
3 that we had previously issued.

4 MALE PARTICIPANT: (inaudible).

5 MR. WEBBER: We did get some new
6 information. We got the results of the NARAC
7 (phonetic) run for the plausible bounding scenario
8 that we were working on yesterday and that Steve and
9 Charlie talked about yesterday (b)(5)

10 (b)(5)

11 While they show that throughout the United
12 States, the total effective dose tags would not be
13 exceeded, it does show concern with respect to thyroid
14 doses. In Alaska, up to 35 FAR rem for a one-year-old
15 child projected thyroid dose. And that's for a
16 northeast wind. And also up to 6.4 in Alaska for the
17 thyroid dose for the one-year-old for an eastern wind.

18 And in Midway, if the winds are from or to the east
19 would show a dose up to 4.9 rems to the thyroid for a
20 one-year-old child.

21 We are working through the interagency to
22 understand and peer review those results. And also
23 pressing on next steps because if we can coordinate
24 the review and come to agreement that these are
25 realistic projections for the given source term,

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1 obviously the next question is what steps should be
2 taken to not only communicate but also to prepare to
3 respond if that scenario actually occurs.

4 CHAIRMAN: Okay.

5 MR. WEBBER: And while I shared with you
6 the dose calculations for the United States, there's
7 also in-country dose ramifications. And I'm not sure
8 that we've seen those. So with respect to the
9 adequacy of our protective action recommendations, we
10 need to understand what the ramifications of those
11 dose projections would be.

12 CHAIRMAN: Okay.

13 MR. WEBBER: You're aware we have
14 confirmation that the first train of equipment for the
15 spent-fuel pool cooling trains arrived yesterday.

16 CHAIRMAN: Good.

17 MR. WEBBER: And the second we think has
18 arrived today in Japan. But we're in the process of
19 confirming that.

20 CHAIRMAN: Okay.

21 MR. WEBBER: So that's some positive news.
22 We are working on getting back to you with
23 respect to your question about what else should we be
24 focused on such as re-start of the other units, lost
25 materials from the tsunami, et cetera. So we'll be

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1 working on a response to that today.

2 CHAIRMAN: Okay. Good.

3 MR. WEBBER: And we've also at your
4 request worked on a preliminary response. I think you
5 have it by email from Rob Lewis --

6 CHAIRMAN: Yes.

7 MR. WEBBER: -- on an answer on how we
8 would go about essentially relaxing protective
9 actions. I think it's good to have them in our hip
10 pocket. But the sense here is that with the current
11 condition of the site, we're probably not there yet.

12 CHAIRMAN: Yes.

13 MR. WEBBER: And offline, we've been
14 working the criteria that the AC could use to (b)(5)

15 (b)(5)

16 (b)(5)

17 (b)(5)

18 CHAIRMAN: Okay.

19 MR. WEBBER: Okay? In terms of
20 priorities, the highest priority is understanding
21 what's going on with compliance including Unit 1 with
22 respect to that elevated temperature.

23 Also, the second peer review and next
24 steps on the plausible bounding case modeling, both
25 with respect to protective actions in country in Japan

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1 as well as impacts on the United States.

2 CHAIRMAN: Okay.

3 MR. WEBBER: And then continuing to work
4 with the other agencies on the protective action
5 recommendations in country.

6 There is a call tonight at 2100 our time

7 (b)(5)

8 [REDACTED]

9 You may hear press reporting about the

10 (b)(5)

11 [REDACTED]

12 CHAIRMAN: Yes.

13 MR. WEBBER: --

14 (b)(5)

15 (b)(5)

16 [REDACTED]

17 CHAIRMAN: Okay.

18 MR. WEBBER: But this call that occurs
19 tonight will be an important call to prepare you for
20 tomorrow morning's deputy committee call.

21 CHAIRMAN: Okay.

22 MR. WEBBER: So Jim Wiggins will be on the
23 IPC call this afternoon at 1630.

24 CHAIRMAN: Okay.

25 MR. WEBBER: And then there will be this

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1 call tonight at 2100. And we'll need to debrief you
2 on the results of those calls so you're ready to go
3 for tomorrow morning.

4 CHAIRMAN: Okay. Good.

5 MR. WEBBER: Any other highlights for the
6 Chairman?

7 (No audible response.)

8 MR. WEBBER: I think that's it from here,
9 sir. Any questions or comments, directions?

10 CHAIRMAN: No. On the modeling, is the
11 same phenomena again where we're seeing some iodine as
12 a modeling artifact? Does anybody actually know what
13 the actual particulate measurements would be that
14 would be projected to be there?

15 MR. WEBBER: I think in a high level, we
16 need to understand that and also peer review that.

17 CHAIRMAN: Yes.

18 MR. WEBBER: So Rob's prepared to say
19 something.

20 MR. LEWIS: I was just going to say,
21 Chairman -- this is Rob Lewis -- we are looking at the
22 model and trying to talk to NARAC about exactly what
23 they did. It does include iodine is what I
24 understand. It also includes I think a large fraction
25 100 percent of Unit 4 which we know has already had

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1 some release. And it includes some very conservative
2 mineralogy we believe --

3 CHAIRMAN: Okay.

4 MR. LEWIS: -- (inaudible) winds. So I
5 think the next step is to talk to the other agencies
6 about the key messages. But one of the steps right
7 after that would be to maybe look at refining some of
8 the models to make sure that we're making the right
9 conclusions since we're using a very conservative
10 approach.

11 CHAIRMAN: Yes. Because I thought we had
12 gone through this exercise several days ago.

13 MR. LEWIS: I think we have. But --

14 CHARLIE: Chairman? Chairman, this is
15 Charlie.

16 The model that you're talking about was
17 the model that I think (inaudible) showed to you last
18 week that you called about.

19 CHAIRMAN: Yes.

20 CHARLIE: The results of that are still
21 the ones that are being utilized. That was the model

22 (b)(5)

23
24 CHAIRMAN: Okay.

25 CHARLIE: So recognize that some agencies,

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(b)(5)

1
2 And they seemed to be comfortable with using that as
3 a planning model based upon the meeting I was in
4 yesterday morning.

5 CHAIRMAN: Okay.

6 CHARLIE: But that got taken into
7 (inaudible) yesterday morning. And I don't know where
8 that is. But you should be aware that that's the one
9 that people seem to be utilizing.

10 CHAIRMAN: Yes. Okay.

11 CHARLIE: It is still conservative -- very
12 conservative.

13 MALE PARTICIPANT: (inaudible) it is
14 certainly iodine.

15 CHAIRMAN: Yes. And that's what I
16 continue to not understand how we're getting such high
17 thyroid doses when whole-body doses are so low which
18 would indicate to me that the transport -- the
19 particulate transport is incredibly low. How you then
20 concentrating and (inaudible) that much iodine does
21 not seem to me to make a lot of sense. But we'll
22 continue to work through that.

23 MR. WEBBER: Anything else?

24 CHAIRMAN: No. I think that's it.

25 Have a good day. And let me know if you

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1 need me.

2 MALE PARTICIPANT: Chairman (inaudible),
3 any progress that you could share on your calls with
4 respect to who is leading the consortium?

5 CHAIRMAN: Yes, I can share.

6 I talked again last night to people.
7 There's talk -- I think it will be a discussion for
8 the IPCC today that perhaps somebody from the BLD or
9 (inaudible) would lead that and make it a broader
10 effort perhaps.

11 So I think there's progress. I think

12 (b)(5)
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15 But I did have a good call. I think there

16 (b)(5)
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20 has yet to be seen how that plays out.

21 MR. WEBBER: Okay.

22 CHAIRMAN: But to some extent, I think
23 either situation is probably okay because in the end,
24 this is not in the end our response. I mean, in the
25 end it is the Japanese response. And our role is I

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1 think to provide technical input and not necessarily
2 to enact solutions.

3 MR. WEBBER: The NRC role?

4 CHAIRMAN: Yes. The NRC role. Yes,
5 correct.

6 MR. WEBBER: Understood.

7 CHAIRMAN: (b)(5)

8 (b)(5)

9
10 that role and we could continue to feed in technical
11 input I think.

12 So either way, I think it would be fine.

13 There is also I should make you aware in
14 case you're not, Toshiba is apparently putting
15 together a team to send to TEPCO.

16 MR. WEBBER: Okay.

17 CHAIRMAN: So there is another effort
18 there to get them additional expertise and assistance
19 so if they get in -- my understanding was they were
20 going to deploy relatively rapidly. And that may
21 involve us that's in Tokyo already. So that may be
22 another opportunity for interface with our staff, and
23 again may make some of these other issues moot.

24 But I don't anticipate -- right now, I
25 think they'll be discussion on the SPCs (phonetic)

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1 about this today. So I don't really anticipate
2 anything happening too soon because as I said it's not
3 at this point necessarily concerning me because it may
4 go slightly in the wrong direction.

5 MR. WEBBER: Okay. Understood.

6 CHAIRMAN: And Josh will probably sit on
7 that to help kind of steer that in the right direction
8 if it does start to get into the wrong direction.

9 MR. WEBBER: (b)(5)

10 CHAIRMAN: Yes.

11 MR. WEBBER: Okay.

12 CHAIRMAN: Thanks, everybody. Call me if
13 you need me.

14 MR. WEBBER: Okay. Thank you.

15 (Whereupon, at 3:10:47, the conference
16 call was concluded.)

17 (ELAPSED TIME: 20 minutes, 3 seconds.)
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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MR. WEBBER: Good morning, everyone.
Thanks for participating in our Commissioner
Assistance brief for this morning.

I'm Mike Webber. I'm leading the ET today
and (inaudible) day shift and then I'll be relieved
later on by Tim Wiggins as people come on around
turnover this afternoon.

In terms of the plant status, Units 1, 2
and 3 reactors are reported to be in a static
condition. But we did get some interesting
information with respect to one temperature
measurement for the core for Unit 1 which originated
from a WANO source. And we're trying to talk down
whether that's a reliable indicator and what the
significance of that measurement is.

The temperature was reported to be at
750°. And like I said, we need to understand what's
going on with respect to that plant.

We're also aware of the smoke that was
reported from Unit 3 yesterday. And we have yet to be
informed of the cause of that smoke or its

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1 significance. And on top of that, we have reports of
2 smoke or steam now coming from Unit 2. So Chuck and
3 his team continue to work as we do here to integrate
4 the various sources of information we have on the
5 plant status and assess their significance with
6 respect to protecting U.S. citizens and the military
7 both in Japan and the United States.

8 Progress continues on restoring AC power.

9 We understand that external AC power is restored to
10 Unit 5. And the diesels continue to run for Unit 6
11 with RHR pumps cooling both Units 5 and 6.

12 We continue to track the status of AC
13 power restoration to the other units. That's more
14 complicated due to the damage we understand to the
15 plant. But we'll continue to follow that and assess
16 its significance with respect to restoring cooling of
17 the reactors and the pool.

18 Multi-day trending of the available dose
19 rate information indicates slightly declining levels.

20 On-site surveys show dose rates in the vicinity of 60
21 mR per hour up to 15 R per hour. And the highest dose
22 rates are measured outside of Unit 3.

23 The AMS flights that are being conducted
24 by the Department of Energy in Japan were grounded
25 during the last couple days due to inclement weather.

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1 But we know they're anxious to restart those flights
2 as soon as weather permits. And that should give us
3 updated information with respect to any more recent
4 releases.

5 We did receive overnight the results of
6 what's called the bounding plausible scenario. This
7 is released from one reactor core and two spent-fuel
8 pools. And those calculations show elevated thyroid
9 doses to one-year-olds in Alaska and Wake Island -- or
10 Midway. Excuse me. And we got those overnight. So
11 we're working back now through the interagency to peer
12 review those results as well as to discuss next steps
13 once the agencies agree that that's a reliable
14 projection of what the does could be if other large-
15 scale releases from those units actually occurred.

16 We have our industry consortium call
17 that's going to take place at 10:00 o'clock this
18 morning.

19 We do know that the first train of the
20 pumping system for returning coolant water to spent-
21 fuel pools arrived at Yokota Air Base yesterday. And
22 we think that the second shipment has arrived today
23 and we're in the process of confirming that that is on
24 the ground there in Japan.

25 And I think those are the high-level

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1 summaries. We have the directors of the liaison --
2 the reactor safety and the protective measures team
3 here. So then let me conclude and open it up for
4 questions.

5 TOM: Mike, this is Tom (inaudible).

6 MR. WEBBER: Hi, Tom.

7 TOM: Is the Unit 1 temperature in the
8 Fahrenheit or Celsius?

9 MR. WEBBER: We think it's in Fahrenheit.

10 TOM: Okay. Thanks.

11 MR. BROWN: Yes, Tom, it's really -- this
12 is Fred Brown, RSPS (phonetic). It's very
13 questionable information.

14 MR. WEBBER: That's why we're trying to
15 understand is it a reliable indicator and what's the
16 significance.

17 TOM: Okay. I understand that.

18 MR. WEBBER: Other questions?

19 MALE PARTICIPANT: Does that correlate to
20 the saturation pressure (inaudible) that we're getting
21 (inaudible)?

22 MR. WEBBER: For the pressure indication
23 we have, no. It'd be higher.

24 MALE PARTICIPANT: Okay. Thanks.

25 MR. WEBBER: But again, all those numbers

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1 are to be taken with caution.

2 MALE PARTICIPANT: Yes, that doesn't sound
3 very reliable. It doesn't seem to make sense to me.

4 MS. COOKE: Hey, Mike, this is Annette
5 (inaudible) Cooke speaking.

6 Could you repeat the thing that you said
7 about the analysis that was done and about -- I didn't
8 quite catch it -- (inaudible) a layout (inaudible),
9 but I didn't quite catch the whole thing.

10 MR. WEBBER: Yes, the calculation that was
11 done is referred to as a hypothetical plausible
12 scenario. It's somewhat extreme. But nevertheless,
13 it's what we were asked to run as an indicator to
14 prepare and develop whatever actions we have to take.

15 We got the results. And we're in the
16 process of assessing the significance of those results
17 and also making certain that they're reliable
18 projections of dose rates to the thyroid gland of a
19 one-year-old. And those results show that you can
20 expect thyroid doses in excess of the protective
21 guidelines in Alaska and Midway Island.

22 But the whole-body doses or the total
23 effective doses are within the protective action
24 guidelines.

25 MS. COOKE: And Midway Island's where?

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1 Hawaii?

2 MR. WEBBER: No. It's in the middle of
3 the Pacific.

4 MS. COOKE: Okay. Does someone have a
5 map? I don't know. I don't know my geography.

6 MR. WEBBER: Other questions?

7 MALE PARTICIPANT: Mike, this is
8 (inaudible). Just one.

9 From last evening's call, there was some
10 discussion relative to DoD was looking for projected
11 dose rates for evacuation of personnel. And now we
12 hear this morning that some evacuations might be
13 ongoing. Is there any intel on that?

14 MR. WEBBER: We are working with DoD. We
15 have a call later today to discuss that. That was a
16 big issue Sunday night coming into Monday. And as of

17 (b)(5)
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20 We are aware that some of the (b)(5)

21 (b)(5)
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24 to work throughout today, and then we'll have this
25 call tonight which should provide the best information

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1 on what additional actions are going to be taken.

2 MR. SNODDERLY: Mike, this is Mike
3 Snodderly. I just have one question.

4 From the bounding analysis, you talked
5 about (inaudible) one core and two spent-fuel pools.
6 Does that assume an instantaneous release or
7 (inaudible)? What's the time frame for the release to
8 forming the plume?

9 MR. WEBBER: That would be -- when you say
10 instantaneous, it would be over a 24-hour period all
11 occurring on the same day?

12 So it's a concurrent release taking place
13 over the span of a day.

14 MR. SNODDERLY: Okay. Thank you.

15 MR. WEBBER: Other questions?

16 MALE PARTICIPANT: (inaudible) 100 percent
17 of everything that's in the spent-fuel pools and in
18 the core go airborne?

19 MR. WEBBER: Can you repeat the question?

20 MALE PARTICIPANT: Does that also assume
21 that 100 percent of the inventory gets released?

22 MR. WEBBER: No. It's 25 percent of Unit
23 2 reactor, 50 percent of Unit 3 spent-fuel pool, and
24 100 percent of Unit 4's spent-fuel pool.

25 MALE PARTICIPANT: Okay. Thanks.

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1 MR. WEBBER: Yes.

2 MR. FRENOVICH: Mike, this is Mike
3 Frenovich.

4 Speaking of Unit 4 spent-fuel pool, do we
5 have any information on this new operation that is
6 going on using a 50-meter boom from a construction
7 site that the TEPCO folks have brought in to pump
8 water as close as they can to the pool itself?

9 MR. WEBBER: I think we have the
10 information that you have.

11 MR. FRENOVICH: Okay. And then the second
12 question for you. Last night there was discussion
13 about how working with the consortium and industry
14 about finding a lead federal agency that might be in a
15 better position to coordinate the logistics of any
16 kind of recovery effort coordinating with industry --
17 both industries, Japanese and U.S. Is there further
18 dialogue on that that's going to occur today?

19 MR. WEBBER: Yes. The Chairman's been
20 actively working that for the last day and a half. So
21 we would expect that his efforts will bear fruit in
22 the foreseeable future.

23 We're not waiting for that to actually
24 accomplish. Our focus is to continue to work with our
25 team in Japan -- the site team to cooperate with

1 industry on pursuing what mitigating strategies may be
2 available to restore cooling to the pools and the
3 reactors.

4 MR. FRENOVICH: Okay, great. Thank you.

5 MR. WEBBER: But that is important to the
6 industry. And I think it's important to stabilizing

7 (b)(5)
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10 MR. FRENOVICH: Okay.

11 MR. CASTLEMAN: This is (inaudible)
12 Castleman. I have one question. Last night we were

13 (b)(5)
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16 overnight and was handed off to the day shift. Do we
17 have an update on that?

18 MR. WEBBER: We do have a draft of those
19 criteria and we now have to review them. We want to
20 get the teams to give them review. That's something
21 to have in our hip pocket so that should we recess
22 (inaudible) we're prepared to provide that kind of
23 advice to our other federal counterparts.

24 MR. CASTLEMAN: Okay. When do you think
25 they'll be finalized?

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1 MR. WEBBER: I would expect by tomorrow
2 we'll have a somewhat final document.

3 MR. CASTLEMAN: Okay. That sounds good.

4 I just -- (inaudible) outlined some of the
5 attributes that would be considered. And what I have
6 written down -- and I'd like to make sure that is says
7 status check -- but I have written down was
8 consideration to include the actual (inaudible) from
9 the facility, the potential for further abuses
10 (phonetic), data supporting assessment of what can be
11 allowed to go off site and a quality assurance
12 validation of the data. Is that accurate or did I
13 miss something there or mischaracterize it?

14 MR. WEBBER: At a high-level, the criteria
15 addressed those things, yes.

16 MR. CASTLEMAN: Okay. Okay. Thanks.

17 MR. WEBBER: Any other questions?

18 (No audible response.)

19 MR. WEBBER: All right. The next call is
20 2000.

21 We thank you and hope you have a good day.

22 MALE PARTICIPANT: Thank you, Mike.

23 MR. WEBBER: Thank you.

24 (Whereupon, at 3:26:11, the conference
25 call was concluded.)

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1 (ELAPSED TIME: 12 minutes, 54 seconds.)

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3 P-R-O-C-E-E-D-I-N-G-S

4 (CONFERENCE CALL INITIATED.)

5 (b)(6) Mike Webber, this is Bill.

6 MR. WEBBER: Yes, Bill. Go ahead.

7 (b)(6) Do you know the latest on the issue
8 that the consortium phone call yesterday raised about
9 we're waiting for some authorization to let the
10 industry interact with Chuck and company?

11 MR. WEBBER: Yes. We have a call planned,
12 and hopefully it'll take place before the consortium
13 call at 10:00 o'clock.

14 The name of the individual from IMPO
15 that's departing from Atlanta today we have. And that
16 individual is known personally by Chuck Casto
17 (phonetic). Our team is working in Japan to make
18 arrangements for the meeting that will introduce this
19 individual.

20 We think but we won't report at 10:00
21 o'clock that they're trying to make arrangements for
22 the individual to be housed in the Embassy or have
23 access to the Embassy.

24 There is continued sensitivity about
25 calling the individual part of the team because that

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1 team is a government team.

2 BILL: Yes.

3 MR. WEBBER: And we're not talking about
4 legal issues anymore because as best we can tell we
5 haven't seen any legal analysis of those issues.

6 So the sensitivity right now is can we
7 accomplish what the individual needs in terms of
8 access and representation without necessarily making
9 that individual a designated member of the team.

10 (b)(6): Okay.

11 MR. WEBBER: Does that help?

12 (b)(6) Yes, yes. I think so. I'm getting
13 the impression that whatever proceeds barrier existed
14 has been made irrelevant or it's being addressed.

15 MR. WEBBER: That's what we're working to
16 accomplish.

17 (b)(6) Yes. Great.

18 All right. Thanks, Mike.

19 MR. WEBBER: All right.

20 (Whereupon, at 3:28:25, the conference
21 call was concluded.)

22 (ELAPSED TIME: 1 minute, 58 seconds.)

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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MR. WEBBER: Chuck?

MR. CASTO: Is this Dr. Sharon (phonetic)?

MR. WEBBER: No, this is Mike Webber.

MR. CASTO: Hello, Mr. Webber. How are you doing tonight?

MR. WEBBER: Good. How are you, Chuck?

MR. CASTO: This morning, whatever it is there.

MR. WEBBER: Yes, it's this morning. It's about 9:30, about 10:30 your time.

MR. CASTO: Okay. Hey, Mike, I wanted to share with you some of the outcome of the last meeting with the Cabinet and Ministries.

MR. WEBBER: Okay.

MR. CASTO: As you're probably briefed on, we had a meeting at -- I don't know -- 5:00 o'clock today with the DIET and the Cabinet Members and the Ministries to have kind of a kick-off -- executive kick-off meeting. Obviously things changed pretty dramatically today with the government. It's the

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1 highest level of government involvement. And so, I'm
2 sure Marty turned that over to you?

3 MR. WEBBER: No.

4 MR. CASTO: Okay. Well, we met with them.

5 And a lot of dialogue with USFJ, a lot of other
6 organizations in there. We talked about Sam G's
7 (phonetic) and talked about robotics mainly this
8 afternoon. And then went back tonight. We had a
9 10:00 o'clock meeting with them to go into more detail
10 after we got some references and some points of
11 contact.

12 Probably the outcome of that -- and out of
13 that 5:00 o'clock meeting, we had asked the
14 headquarters to look at IMPO and DOE with regard to
15 either robotics or -- robotics primarily and radiation
16 monitoring, I believe, for large-area radiation
17 monitoring. I think IMPO is supposed to be working on
18 something with that. We're also trying to make
19 contact with DOE to get them some high-range or high
20 area radiation detection across a wide area. And they
21 asked again about that tonight.

22 The other thing -- the other news they had
23 was the Unit 2 spent-fuel pool is full or they think
24 it is. They filled it today.

25 MR. WEBBER: Okay.

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1 MR. CASTO: And then we talked with them
2 about this shift from seawater to freshwater.

3 MR. WEBBER: All right.

4 MR. CASTO: You may have gotten turned
5 over on that.

6 MR. WEBBER: Right.

7 MR. CASTO: Their technique and how
8 they're going to do that and what their obstacles are
9 to do that.

10 And then we had successful discussions
11 down at Yokota. Bill Cooke just got back here a
12 moment ago from demonstrating the equipment or showing
13 the equipment to TEPCO. You'll get photos on that
14 soon. It's very impressive. And hopefully eventually
15 they'll use that.

16 And then I think what we're looking for is
17 we have another meeting at 8:00 o'clock tomorrow night
18 with the Cabinet Minister and that whole team again.
19 And I think what they're going to be looking for is
20 the capability of wide-area radiation monitoring,
21 perhaps radiation monitoring around the spent-fuel
22 pools and maybe some more on robotics.

23 Does that make sense?

24 MR. WEBBER: Yes. The information that we
25 sent to you, were you able to use that?

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1 MR. CASTO: I don't know that we got it
2 before we left for over there. I didn't get any
3 information before we went over there.

4 MR. WEBBER: Okay. I was told we sent the
5 information on robotics to you. But --

6 MR. CASTO: It wasn't -- but when we left
7 -- what time did we leave -- 8:35 or something -- yes,
8 8:35. We hadn't gotten it yet.

9 MR. WEBBER: Oh.

10 MR. DIVERCELLI: I didn't receive anything
11 since you left.

12 MR. CASTO: Yes. And Rick says he hasn't
13 seen anything since we left. And I didn't see
14 anything in my email either.

15 MR. WEBBER: Well, that's interesting
16 because my understanding was we did send you
17 something. But we'll pull the string on that.

18 What we sent was an update to the rad
19 protection equipment. And it said we're still working
20 robotics.

21 MR. DIVERCELLI: Oh, that's good to know.

22 MALE PARTICIPANT: May I make a comment on
23 it?

24 MR. WEBBER: Sure.

25 MR. VOVOSO: This is Tom Vovoso, Naval

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1 Reactors.

2 What I just heard from a call with IMPO
3 that I was a part of is they are working robotics.

4 (b)(5)

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6
7 So it seems like it would be useful to have someone
8 on the Japanese side to say definitively that they
9 want the robotics.

10 MR. CASTO: Yes, we ran into that same
11 trouble with the pumping system.

12 MR. VOVOSO: Right.

13 MR. CASTO: I think the thing to do is you
14 provide them with a list of what's available and they

15 (b)(5)

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20 hey, this is the thing -- and you can only give them
21 items that you can actually deliver on. And you say
22 this we can deliver on. Do you want this? And you
23 let them pick and choose. A

24 (b)(5)

25 MR. WEBBER: Okay.

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1 MR. CASTO: And then hopefully by tomorrow

2 (b)(5)

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4
5
6 through our DOE connections, we're trying to get
7 something from DOE -- a list of available equipment.

8 MR. WEBBER: Okay. So that's from both
9 DOE and from IMPO?

10 MR. CASTO: Right. And then USFJ is doing
11 their thing too. We had heard tonight there some
12 radiation survey teams of up to 450 people or
13 something that they're willing to deploy forward upon
14 request.

15 MR. WEBBER: USFJ? Have we got an update
16 on that?

17 MR. VOVOSO: Yes. This is Tom Vovoso
18 again. We don't think that's an accurate report. We
19 think that's a miscommunication.

20 MR. CASTO: Okay. Well, that's up to
21 USFJ.

22 The other thing that on our way out of the
23 meeting tonight, they pulled us aside and said that
24 they have a thumbdrive they want to share with us that
25 has a couple thousand pictures on it. So we're

1 awaiting that tonight. They said when they copy it
2 over, of course, a couple of thousand pictures is a
3 lot of files. So when they get that all copied over,
4 they're going to call us and we're going to go get it
5 or bring it over or something.

6 MR. WEBBER: Okay.

7 MR. CASTO: And we'll download that to the
8 (inaudible).

9 MR. WEBBER: In a little bit.

10 MR. CASTO: Yes. They said it may be in
11 the morning. And they told us if they get it tonight,
12 they'll send it.

13 MR. WEBBER: Okay.

14 Now what do you need from us at this
15 point? Do you need the information we're asking about
16 from DOE and IMPO on what robotics are available
17 (inaudible).

18 MR. CASTO: And then we teed up with the
19 other crew -- the earlier crew that we have to brief
20 Admiral Willard on Thursday afternoon --

21 MR. WEBBER: Right.

22 MR. CASTO: -- about data.

23 MR. WEBBER: Right.

24 MR. CASTO: And --

25 MR. WEBBER: Data? Data about the plants?

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1 MR. CASTO: Yes. About the plant. And I
2 suspect he's probably going to get into rad protection
3 data too. (b)(5)

4 (b)(5)

5 MR. WEBBER: Right. (b)(5)

6 (b)(5)

7 MR. CASTO: But I think we're going to
8 work on that tomorrow morning when we get in and try
9 to come up with a picture of where we're getting our
10 data and what it's telling us.

11 MR. WEBBER: Okay.

12 MR. CASTO: Although we're not getting a
13 lot of data. That's the problem.

14 MR. WEBBER: We're prepared to help you
15 back here, Chuck, working on your briefing materials.
16 And there was some discussion about whether you're
17 doing that or we're doing that. My assumption is you
18 are doing that briefing there.

19 MR. CASTO: Yes. I think that's probably
20 going to be best in the end.

21 MR. WEBBER: Yes. We can certainly tap in
22 from here if that's desired to provide support. But I
23 think it's best person-to-person.

24 MR. CASTO: Right, right. Well, he'll be
25 on a VTC. I think he's in Hawaii.

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1 MR. WEBBER: Oh, okay.

2 MR. CASTO: But because the other -- it's
3 a two-part briefing, and the other part of the
4 briefing will be from here. So we might as well both
5 do it from here. And I think he's interested in real
6 live on-the-ground information. So we'll see how that
7 works out based on what we develop on data sources. I
8 think -- this is all kind of supposition. Two things.

9 I think Marty's got a good view that we should just
10 give a general, high-level discussion of what that we
11 think the plant status is similar to what we have (b)(5)

12 (b)(5) You could chase this data around --
13 like I told them earlier -- it's like bathing in your
14 own bath water. I mean, we're passing numbers around
15 to each other and they become truth. And in reality,
16 I can show you TEPCO's numbers where they say we don't
17 have any numbers for this. But yet, we're producing
18 numbers for some reason.

19 MR. WEBBER: Right.

20 MR. CASTO: So it's going to be difficult
21 for Admiral Willard to think about the fact that we
22 don't have data. But there's a lot of gaps in the
23 data.

24 MR. WEBBER: Yes. We have to just give
25 whatever we can.

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1 MR. CASTO: What we know, yes.

2 MR. WEBBER: What we know. Right.

3 MR. CASTO: Yes. I'm reluctant to -- some
4 of that datasheet that we're producing was from I
5 think JIFA or something. And I don't know why we
6 would publish stuff from them.

7 MR. WEBBER: Yes. We agree. Especially
8 if there's inconsistent information. We ought to
9 provide the information that we think there's some
10 reliability to and not report on other stuff.

11 MR. CASTO: Yes. Tertiary data.

12 DAN: Part of the challenge of that is
13 figuring out what is realistic data because we've had
14 instances where we were picking stuff off the media
15 that had attributions to NISA. And then you go talk
16 to NISA and they tell (inaudible) different.

17 MR. WEBBER: Good to hear your voice, Dan.

18 DAN: Good to hear yours, Mike.

19 MR. CASTO: That's the latest tonight.

20 We're just waiting on a thumbdrive --

21 MR. WEBBER: Okay.

22 MR. CASTO: -- and I think that's all we
23 have.

24 MR. WEBBER: Hey, on your end, you're
25 aware of the IMPO individual that's coming -- Mr.

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1 Hochivar (phonetic)?

2 MR. CASTO: Yes. I've worked with Al
3 before. I know him.

4 MR. WEBBER: And we understand that you
5 and your team are working to make arrangements for him
6 to meet with counterparts. So when he lands there
7 tomorrow, he'll have the opportunity to work with your
8 team and you'll share with him what you know and give
9 him introductions to the Japanese counterparts.

10 MR. CASTO: Absolutely. And I think he
11 has experience here too as I remember.

12 MR. WEBBER: That'd be great.

13 MR. CASTO: So it's not his first rodeo
14 over here.

15 MR. WEBBER: What's that?

16 MR. CASTO: I don't think this is his
17 first rodeo over here.

18 MR. WEBBER: Okay. Do you have his
19 contact information?

20 MR. CASTO: Yes. Some of the email got to
21 us.

22 MR. WEBBER: Okay. Our understanding is
23 he's going to be working out of a WANO Tokyo Center.

24 MR. CASTO: Okay.

25 MR. WEBBER: But --

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1 MR. CASTO: We'll get him into the Embassy
2 and he can hang out here. Everybody else hangs out
3 here.

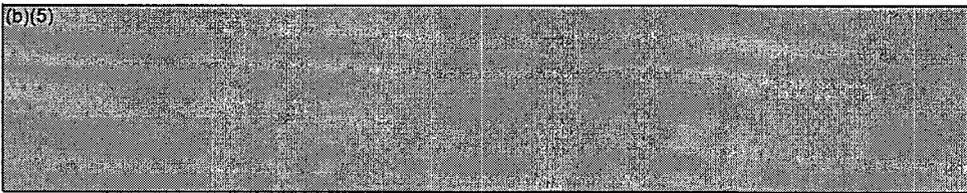
4 We get so many. I mean, the bad part of
5 it is this conference room doesn't have a door. And
6 we can't keep people out. And man, it's just constant
7 people over your shoulder.

8 MR. WEBBER: That's because you're a
9 magnetic personality.

10 MR. CASTO: That's what it is. Yes,
11 that's what it is. Yes, the fun crowd. It's exciting
12 in here and we always have coffee -- 24/7 coffee
13 running in this shop.

14 MR. WEBBER: Uh-oh. And another item you
15 should be aware of. We continue to work closely with
16 our federal agency counterparts back here. You know

17 (b)(5)



18
19
20 MR. CASTO: Yes. They're working on that
21 tomorrow at 10:00 a.m. our time.

22 MR. WEBBER: Right.

23 MR. CASTO: (inaudible) that thing.

24 Hey, Mike, what is the -- while I have you
25 and if we have a minute, what is the status of the Op

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1 Center at night there? Have you guys downsized?

2 MR. WEBBER: No, not at all. In fact, we
3 have supplemental staffing during the daytime your
4 time.

5 MALE PARTICIPANT: Hey, we're driving.

6 MR. CASTO: Are they busy?

7 MR. WEBBER: If you make them busy,
8 they're busy.

9 MR. CASTO: We were just talking about it
10 earlier today about when it's nighttime here, I guess
11 during the day there.

12 MALE PARTICIPANT: Well, then they get
13 busy with the Hill and (inaudible) and all that.

14 MR. WEBBER: Yes, it's pretty busy all day
15 long.

16 MR. CASTO: Okay. Well, we were just
17 trying to not whipsaw you or trying to get people a
18 break or something back there.

19 MR. WEBBER: Yes. Don't worry about us.
20 We need to make certain that you have the information
21 and the support you need there.

22 MR. CASTO: Yes. I tell you there's a lot
23 of high-level interest.

24 Now this latest thing is this logistics
25 issue with whomever it is that's going to be the

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1 Japan's team's logistical support.

2 MR. WEBBER: Right. And the Chairman is
3 hot on that. He has shared with us a proposal that
4 he's working with his agency head counterpart.

5 MR. CASTO: Yes.

6 MR. WEBBER: I haven't heard back from him
7 since we gave him the feedback. But our expectation
8 is that we should know in short order who's going to
9 step up to the plate and take on the leadership for
10 that.

11 MR. CASTO: He just called us a little
12 while ago.

13 MR. WEBBER: Okay.

14 MR. CASTO: And I don't know -- he just
15 shared -- just a generic sharing of that information.
16 He didn't say anything else. He just shared. Other
17 than his appreciation, of course.

18 MR. WEBBER: Yes.

19 MR. CASTO: But he just said there'd be a
20 logistical team which is great. I mean, I think from
21 my understanding is the White House was not -- they
22 don't want to do the logistics work for pumps and
23 stuff.

24 MR. WEBBER: Yes. I don't think they're
25 staffed or structured to do that.

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1 MR. CASTO: Well, it's the same thing with
2 the radiation thing: (b)(5)

3 (b)(5)
4 (b)(5)
5 (b)(5)
6 (b)(5)
7 (b)(5)
8 (b)(5)

9 MR. WEBBER: Well -- and I think frankly
10 there's multiple interest. While we're all united in
11 ensuring protection of the United States and sharing
12 with our Japanese counterparts, sometimes that best
13 comes together at that level.

14 MR. CASTO: Yes, I'm talking about
15 interagency though between DOE, NR and the NRC and
16 others.

17 MR. WEBBER: Well, that's what I'm talking
18 about.

19 MR. CASTO: Okay. All right.

20 Okay.

21 MR. WEBBER: Hey, in terms of your health,
22 are you taking care of yourself?

23 MR. CASTO: Are we -- yes. I don't think
24 any -- we only made one person sick.

25 MR. WEBBER: Are you staffed for around-

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1 the-clock? Are you working around the clock?

2 MR. CASTO: No, we're not working around
3 the clock. We shut down at night, and Rick Divercelli
4 (phonetic) runs the night shift.

5 MR. WEBBER: Okay.

6 MR. CASTO: So we all -- I mean, early on
7 last week there was some definitely 4:00 in the
8 morning kind of stuff and then get back up. But the
9 last couple nights, I don't think we've had anything.
10 It's been dead at night. I think that's why we were
11 talking about we really that big of an impact or can
12 we downsize. But we're running one person at night
13 now.

14 MR. WEBBER: Okay.

15 MR. CASTO: The Embassy, they want
16 somebody 24/7. So we've been running one person at
17 night time.

18 MR. WEBBER: Okay. But the rest of the
19 team's off and getting rest so that you're fresh in
20 the morning?

21 MR. CASTO: Yes, they're off and getting
22 rest. So, it's just like tonight, we had that 10:00
23 o'clock meeting or something. So Dan and John and I
24 stayed for that. And Bill Cooke just back in from
25 Yokota.

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1 But I think -- did you -- yes. And then I
2 think he got crew rest or something. I don't know.
3 But we're pretty shut down at night now.

4 MR. WEBBER: Have we worked out with the
5 Japanese how they're going to train the people to
6 install and operate that system?

7 MR. CASTO: We worked out with the
8 Japanese how we would train for somebody to install
9 and operate that equipment.

10 BILL: Yes. The representatives from
11 Australia are kind of open-ended. They can stay
12 probably a week or so. And they offered their
13 assistance to train any and all people that TEPCO
14 wanted to learn to operate the equipment. They are an
15 extremely cooperative and helpful in doing whatever
16 they can to make sure that their equipment gets to the
17 proper use.

18 MR. WEBBER: Good. So we're waiting now
19 to hear back from TEPCO and the Japanese government on
20 what their plans are now that that equipment's
21 available?

22 BILL: That's correct. When we left the
23 meeting, in their words, they needed to do some
24 homework and make sure they understand -- clearly
25 understood the limitations of the equipment versus the

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1 state's constraints and maneuverability issues. They
2 were going to exchange some additional information
3 with the Australian contractor to make sure that the
4 (inaudible) were appropriate. But I got the overall
5 impression that they were going to take it and use it,
6 maybe not in the exact configuration as designed, but
7 clearly they can use any parts, pieces and put them
8 all to good use to help support their mitigation
9 strategy.

10 MR. WEBBER: Any discussion about which
11 unit they're going to use that on?

12 MR. CASTO: They were talking very heavily
13 about Unit 3.

14 MR. WEBBER: Unit 3. Okay. Understood.

15 MR. CASTO: And they already have a boom
16 truck providing water flow to Unit 3. They talked
17 about doing the same thing at Unit 4. So they're
18 really working hard to figure out how best to utilize
19 the equipment that's been provided.

20 MR. WEBBER: All right.

21 Any update from your end on Unit 1?

22 MR. CASTO: No. But you know, Mike, I
23 don't know what -- we get so much traffic on sporadic
24 data that's --

25 MR. WEBBER: You guys have a look at the

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1 saturation pressure for that temperature. I mean,
2 what are you saying? 750 or so? That's well above
3 the safety. I mean, that's --

4 MR. CASTO: Those numbers don't seem
5 realistic to us.

6 MR. WEBBER: I think Don's (phonetic) got
7 an update on that.

8 DON: The phone call with IMPO, they said
9 they got data directly from TEPCO with two
10 temperatures that somewhat corroborated what was
11 reported earlier. One was I believe their
12 thermocouple temperatures for feedwater nozzle and
13 bottom head, 720° Fahrenheit, 741° Fahrenheit.

14 MR. WEBBER: (inaudible) the bottom heads?
15 I mean, that maybe true if you've got core melt on
16 the bottom. But that doesn't mean the temperature --

17 MR. CASTO: Of water --

18 MR. WEBBER: -- is the water of that. If
19 you've got the (inaudible), then yes. But that
20 doesn't mean the water's at that temperature. Right?

21 DON: Right. It won't -- it's hard to
22 explain how you could have the water at that
23 temperature and still be able to add water to the
24 vessel. But --

25 MR. CASTO: And that may not be. I mean,

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1 any number you get is --

2 MR. WEBBER: Right.

3 MR. CASTO: -- highly suspect.

4 MR WEBBER: Just wanted to point out there
5 was at least one more storage reportedly directly from
6 TEPCO that corroborates that.

7 MR. WEBBER: Where's the two points
8 measured -- the bottle (inaudible)?

9 MALE PARTICIPANT: Feedwater nozzle, I was
10 told. I don't know where that is.

11 MR. CASTO: We're going to go in in the
12 morning and just confirm that.

13 MR. WEBBER: Okay.

14 MR. CASTO: We'll go in tomorrow. That'll
15 be a mission for us. We'll go into NISA tomorrow and
16 look at that.

17 MALE PARTICIPANT: (inaudible).

18 MR. WEBBER: Yes, but your priority should
19 remain on implementing the mitigating strategies,
20 right?

21 MR. CASTO: Yes.

22 MR. WEBBER: Don't let this become a
23 distraction for you. If you find out information
24 that's helpful, that's good.

25 MR. CASTO: We've been going into NISA.

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1 We're going to try to go into NISA twice a day -- once
2 in the morning and once in the evening -- just to get
3 the update on data. But we're not wrapping ourself
4 around acting on data.

5 MR. WEBBER: Okay.

6 MR. CASTO: We're worried about mitigating
7 strategies right now -- the switching over to
8 freshwater and fuel pool cooling.

9 Along those lines while we were talking
10 with TEPCO, they were looking at this proposed --
11 well, the first training configuration and scratching
12 their heads on how best to use it to supply fuel water
13 -- freshwater. So I think we got them on the hook.
14 Now we just got to set it.

15 Great, guys. Talk to you in the morning.

16 MR. WEBBER: Hold on. Couple other items
17 that you might have interest in. One was I think you

18 (b)(5)
19
20
21

22 MR. CASTO:

(b)(5)

23 (b)(5)
24

25 MR. WEBBER: Just wanted to clarify.

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1 MR. CASTO: The KI distribution. That was
2 the posture change.

3 MR. WEBBER: Okay.

4 MR. CASTO: Like they did at the Embassy
5 today, they passed out KI.

6 MR. WEBBER: Another item, you met Mr.
7 Mueller there?

8 MR. CASTO: Oh, yes.

9 MR. WEBBER: Okay. He said that he's got
10 three areas on his screen and he's trying to work on
11 homogenizing them on the NRC, DOE and NR and any
12 others.

13 MR. CASTO: Yes, they're doing that at
14 10:00 a.m. tomorrow.

15 MR. WEBBER: Right. Well, he said he did
16 it at the 9:30 meeting. But he's pressing on us for
17 our pieces of whatever our involvement is in the three
18 things, one, the story on plume, two is ground shine
19 (phonetic), model and what consequences or conclusions
20 you draw from that, and the third was what he called
21 the severe reactor accident dose assessment that you
22 were referring to as the --

23 MR. CASTO: (inaudible).

24 MR. WEBBER: Right. So those are his
25 priorities. And he's trying to get the best story he

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1 can together and hopefully the homogenized story for
2 tomorrow morning.

3 MALE PARTICIPANT: But all three of those
4 projects I think are worked back here, not in RT
5 (phonetic).

6 MR. CASTO: You guys are running
7 interference for us on that.

8 MR. WEBBER: Yes. We've got you covered
9 on that.

10 MR. CASTO: Just be careful it was his
11 anomalous data point that had us in the fit room the
12 other night. And when he talks about a plausible
13 worse case scenario, he was also the one making an
14 argument late last night that looking at 10^{-9} samples
15 down on (inaudible), but if you call it all iodine and
16 integrate it over enough period of time, you get to a
17 bag (phonetic)_level. (b)(5)

18 (b)(5)

19
20
21
22
23 MR. WEBBER: I understand. I talked to
24 Steve yesterday (b)(5)

25 (b)(5)

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1 MR. CASTO: Yes. You're talking to the
2 guy that wrote the thing (b)(5)

3 (b)(5)

4 (b)(5)

5 (b)(5)

6 MR. CASTO: Yes.

7 MR. WEBBER: You have something?

8 MALE PARTICIPANT: I think we need to let
9 these guys go.

10 FRED: Chuck, now I know it's 11:00
11 o'clock, and I'm sorry, but we're looking at making a
12 recommendation to change priorities away from Unit 4
13 spent-fuel pool. Do you know anything that I don't
14 know that is now a lower priority than 2?

15 MR. CASTO: Well, 2 is flooded up.

16 FRED: No, the overall unit.

17 MR. CASTO: Unit 2 core?

18 Well, first of all, I don't understand the
19 priority thing. It's TEPCO's priorities. We don't
20 recommend priorities to them.

21 FRED: Right. No, no, no. Okay. Maybe
22 I'm answering my own question.

23 We have priorities here that are being

24 (b)(5)

25
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1 MR. CASTO: Okay. I understand.

2 FRED: Right now, we have Unit 3 as our
3 first priority. Unit 4 is our second priority. Unit
4 2 is our third and Unit 1 is our fourth.

5 We're looking at the info on spent-fuel
6 pool for #4. It now looks like the lowest priority.
7 And rad readings and data says 3 and 1 and 2 and
8 seeing them as higher.

9 It's not going to cause you any heartache
10 or you don't know anything that would be different if
11 we make that recommendation to change?

12 MR. CASTO: So where are you getting the
13 information from? Where are you getting the
14 information that Unit 4 rad levels are low?

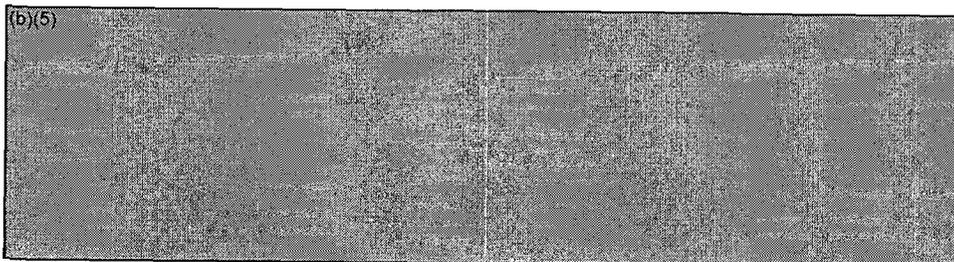
15 FRED: Thermal information.

16 MR. CASTO: So not for to the 4 megawatts,
17 is it? That's what NR said today.

18 FRED: Temperature indicates a flooded
19 spent-fuel core on Unit 4.

20 MR. CASTO: (inaudible).

21 FRED: If the answer's no, that's fine.



23
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1 the pool temperature is just a little bit above normal
2 without any water in it. (b)(5)

3 (b)(5)
4 (b)(5)
5 FRED: If you believe those temperature
6 measurements, they can walk up there with an operator
7 and put a hose in it. There's no big deal.

8 MR. CASTO: Yes. And without water in
9 them. I mean, what they did, Fred, was if you look at
10 the thermal signature -- well, there's a couple of
11 problems. It's a long story. But if you look at the
12 top of the thermal signature -- first of all, you
13 don't know what's at the bottom of thermal signature.

14 The other issue is all those temperatures they
15 published in the newspaper, if you think about it,
16 Unit 1 spent-fuel pool has the roof of the building
17 laying over top of it. Okay? Unit 2 has some debris.

18 Unit 3, everybody agreed was empty. And Unit 4, the
19 question whether -- but yet all the temperatures are
20 about the same within a few degrees of each other.
21 When you got a lid on Unit 1 and you know that Unit 3
22 is empty. (b)(5)

23 (b)(5)
24 (b)(5)

25 (b)(5)

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(b)(5)

1
2
3
4 FRED: Right. Those weren't the numbers I
5 was referring to.

6 MR. CASTO: So what numbers have you got
7 that we don't have?

8 FRED: I was referring to the (inaudible).

9 MR. CASTO: As far as I know, we don't
10 have any sources (inaudible) to have numbers.

11 FRED: You've answered my question.

12 MR. CASTO: Let me just add one more thing
13 from the Cabinet meeting tonight. They reported on
14 spent-fuel pool #4. Today they continued to pour
15 water on it from above, and they've observed no
16 substantial change to external dose. That was what
17 they reported on Unit 4 tonight.

18 MALE PARTICIPANT: Good afternoon,
19 gentlemen.

20 MALE PARTICIPANT: Hi. How you doing?

21 MALE PARTICIPANT: Not too badly.
22 Yourself?

23 MALE PARTICIPANT: Doing well. We had a
24 couple of other folks with some ideas on picture
25 transfer. And was just going to check with you and

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1 see if you guys had any other faster solution come up.

2 MALE PARTICIPANT: No, we haven't. And I
3 think the link that was done for headquarters is not
4 working because Citrix (phonetic) keeps timing out on
5 me due to inactivity. Citrix keeps closing.

6 MALE PARTICIPANT: I have Joe Ditter
7 (phonetic) and Dory (inaudible) in the room here. And
8 they have some thoughts about maybe encrypting them.
9 Joe, do you want to (inaudible)?

10 MR. DITTER: Do you know how to use a PT
11 (inaudible)?

12 MALE PARTICIPANT: Do I know how to use
13 it?

14 MR. DITTER: Yes. Well, what we're
15 thinking is because you're probably only talking about
16 what -- three gigs of data.

17 MALE PARTICIPANT: It's three gigs, yes.

18 MR. DITTER: Yes, okay. Technically you
19 should be able to -- if they weren't encrypted, you
20 should be able to transmit those within about an hour.

21 MALE PARTICIPANT: Okay.

22 MR. DITTER: If it's a decent bandwidth.
23 What are you using to encrypt them?

24 MALE PARTICIPANT: I don't know what Joe
25 Lofton (phonetic) used on his end. I'm not exactly

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1 sure.

2 MR. DITTER: Okay. But they're encrypted
3 files, right?

4 MALE PARTICIPANT: Well, the transfer that
5 I'm doing to the technical training center is SSL I
6 guess is what he told me it was. So whatever that
7 means.

8 MR. DITTER: Okay.

9 MALE PARTICIPANT: Is that for use on a
10 website? Or what's SSL?

11 MR. DITTER: What it does is it allows you
12 to transfer images to a website. It's just password
13 protected. You get access to the website.

14 It just seems to me we (inaudible) file
15 transfer protocol? Do you know?

16 MALE PARTICIPANT: FPPL (phonetic)?

17 MR. DITTER: Yes. We can do it to an FTP
18 site -- you were transferring the files?

19 MALE PARTICIPANT: Well, I heard him use
20 the FTP verbiage several times. I was a machinist
21 mate and an operator. I can't spell this computer-
22 speak stuff.

23 MALE PARTICIPANT: Yes, I'm the same way.
24 When your knuckles hit the ground, you can't do that
25 stuff.

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1 MALE PARTICIPANT: Bingo, boys. So I
2 heard him basically do some acronym soup on --

3 MR. DITTER: I transfer -- I do FTP
4 transfers all the time. And I can transfer a fairly
5 large file fairly quickly.

6 You know the other option though, is there
7 any way you could compress the files -- you can zip
8 them? Would that --

9 MALE PARTICIPANT: Yes. I did get one of
10 the folders compressed. And that's saved -- and yes,
11 I could try to transfer the compressed folder. I
12 would have to --

13 MR. DITTER: You can zip them and then we
14 can unzip them on this end.

15 MALE PARTICIPANT: Right.

16 MR. DITTER: You need to encrypt them --
17 do they have to be encrypted or not?

18 MALE PARTICIPANT: Do a (inaudible) FTP
19 site (inaudible).

20 MALE PARTICIPANT: (inaudible).

21 MALE PARTICIPANT: It's not real good.

22 But it's --

23 MALE PARTICIPANT: So the question is do
24 they need some other technology from us the
25 (inaudible) team to be able to do that work? Or

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1 you're saying just zip them up and send them
2 (inaudible).

3 MALE PARTICIPANT: (inaudible).

4 MALE PARTICIPANT: Even zipped up, I had
5 -- it was a 1.8 meg file, or a 1.8 gig file that I
6 zipped up to 1.45. So --

7 MALE PARTICIPANT: That's all it
8 (inaudible)?

9 MALE PARTICIPANT: That's all it zipped.
10 I mean, these are very high-resolution photographs.
11 See, I don't have -- it's not on that one -- but these
12 are like four digit by four digit resolution
13 photographs.

14 MALE PARTICIPANT: (inaudible).

15 MALE PARTICIPANT: Oh, wow.

16 MALE PARTICIPANT: (inaudible).

17 MALE PARTICIPANT: It sounds like we may
18 need to give you some more support on that. Is that
19 accurate?

20 MALE PARTICIPANT: No, it's just not
21 working anymore. (inaudible).

22 MALE PARTICIPANT: No, it's that number he
23 can be reached on.

24 MALE PARTICIPANT: Are you guys talking to
25 me or yourself?

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1 MALE PARTICIPANT: We're talking amongst
2 ourselves.

3 Well, (inaudible) files and bundles, would
4 that it a lot faster?

5 MALE PARTICIPANT: Yes, but I mean, it's
6 not going to do -- (inaudible) pretty big. And
7 (inaudible).

8 MALE PARTICIPANT: Maybe the other option
9 is (inaudible) resolution.

10 MALE PARTICIPANT: So the reason that I
11 (inaudible) so we can go analyze them and --

12 MALE PARTICIPANT: (inaudible).

13 MALE PARTICIPANT: Question. It sounds to
14 me like what we need to do is give them some more
15 support -- somebody from OIS.

16 MALE PARTICIPANT: I agree.

17 MALE PARTICIPANT: And then (inaudible).

18 MALE PARTICIPANT: We just won't be able
19 to figure this out.

20 MALE PARTICIPANT: We'll take that as an
21 action, Rick, to see if we can't get you a better
22 solution.

23
24 MR. DIVERCELLI: All right. Well, we've
25 got IT people in the Embassy here, but they're not

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1 here right now. They won't be in until about -- in
2 about two hours they'll be here. So if your IT can
3 speak to my IT and when they get their secret password
4 and handshake taken care of, then we'll do what we
5 can. But in parallel, I'm continuing to send to
6 the TPC (phonetic). And so far, 147 meg has been sent
7 to the TPC. And it's about five minutes a picture,
8 and I'm about an hour and a half into it. So that's
9 the volume that's gone so far.

10 MALE PARTICIPANT: Yes. (inaudible).

11 MALE PARTICIPANT: Okay.

12 MR. DIVERCELLI: Now what I'm going to do
13 is I'm going through right now and through Outlook,
14 I'm going to try to attach one at a time to an email.
15 And I guess you want me -- what computer do you want
16 me to send it to -- ET01 or something?

17 MALE PARTICIPANT: Another option, if
18 there's guys at the Embassy who know how to post
19 images on a website and we have a SSL (phonetic)
20 connection to the website, if I asked for the
21 equipment for you guys to post them on a web, and us
22 to point to it. That would be a lot quicker actually.

23 MR. DIVERCELLI: Okay. Well, when I have
24 IT people here, I can follow up on that.

25 MALE PARTICIPANT: That would be a lot

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1 quicker. That way you don't have to worry about the
2 transmission here.

3 But let's get some help for you on this
4 end.

5 Just for my clarification, what are these
6 pictures of?

7 MR. DIVERCELLI: They're a number of
8 pictures of the site including some very -- relatively
9 detailed close-up pictures of the buildings.

10 MALE PARTICIPANT: So this is the pre-
11 event or after?

12 MR. DIVERCELLI: It's after the event.

13 MALE PARTICIPANT: Okay. All right.
14 Good.

15 MR. DIVERCELLI: In some of these you can
16 actually see the location -- like the spent-fuel pool
17 or the dryer separator pit.

18 MALE PARTICIPANT: Good. We need to get
19 these.

20 MR. DIVERCELLI: Yes. I'm going to attach
21 one to an email right now and send it to you. But I
22 need to know where you want me to send me. Is it ET01
23 or --

24 MALE PARTICIPANT: (inaudible).

25 FEMALE PARTICIPANT: (inaudible).

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1 MR. DIVERCELLI: ET02?

2 MALE PARTICIPANT: Correct.

3 MR. DIVERCELLI: I repeat it. It's ET02?

4 MALE PARTICIPANT: Correct. ET02.

5 MR. DIVERCELLI: (inaudible).

6 MALE PARTICIPANT: (inaudible) .hoc and
7 (inaudible).

8 MR. DIVERCELLI: ET02.hoc?

9 MALE PARTICIPANT: @NRC.gov.

10 MR. DIVERCELLI: @NRC.gov. Okay.

11 I'm going to send you one right now. If
12 you can call me back and let me know if you got it.
13 But this will give you an idea of the type of
14 resolution we're dealing with.

15 All right. We'll talk to you guys
16 shortly.

17 MALE PARTICIPANT: Thank you. Bye-bye.

18 MR. DIVERCELLI: Bye-bye.

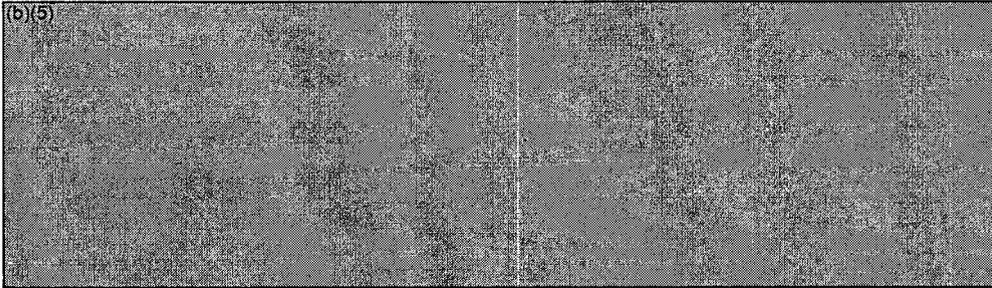
19 (Whereupon, at 4:11:15, the conference
20 call was concluded.)

21 (ELAPSED TIME: 41 minutes, 7 seconds.)
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there?

MR. MILLER: Hi, Mike. It's Chris Miller.

MR. WEBBER: Hey, Chris.

MR. MILLER: And Trish and Jim are both at
the IPC meeting.

MR. WEBBER: Oh, they're both there.

MR. MILLER: They are both hanging out
over there.

What can I do for you?

MR. WEBBER: So you have the com.

I just sent to a variety of teams in the
Op Center an email that Kathy Haney (phonetic) sent
this morning from France.

MR. MILLER: Okay.

MR. WEBBER: It's a report of shipment of
20 percent enriched research reactor fuel from France
to Japan that the Japanese have indicated that they're
not in a position to accept.

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1 The essence of the email string is that
2 Areva Richland for a time was considering that it
3 would be a safe haven for this material.

4 MR. MILLER: Okay.

5 MR. WEBBER: But that was decided not to
6 be appropriate. And I think probably for good reason.

7 MR. MILLER: Okay.

8 MR. WEBBER: So one, I wanted for your
9 situational awareness, this is a domestic activity,
10 and I wanted to make certain that you had visibility
11 of it.

12 MR. MILLER: Yes.

13 MR. WEBBER: And it's an indirect effect
14 of the situation in Japan.

15 But I think the rest of the story is where
16 is the material.

17 MR. MILLER: And did I understand you said
18 it was originally a shipment from France to Japan?

19 MR. WEBBER: Right.

20 MR. MILLER: So domestic-wise, it's a
21 domestic situation just because Richland may or may
22 not accept it?

23 MR. WEBBER: Yes. I don't know that it's
24 in country. But since they were considering making
25 Richland Areva as the safe haven, that would imply

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1 that it may be here in the United States.

2 MR. MILLER: Okay.

3 MR. WEBBER: If it is here in the United
4 States, it's important that we know where it is.

5 MR. MILLER: Yes.

6 MR. WEBBER: For obvious reasons.

7 MR. MILLER: Okay. Got it. We will work
8 on that.

9 MR. WEBBER: Yes. So I know that's a
10 little odd given what we're doing. But I would think
11 PMP (phonetic) or somebody needs to work with NMSS and
12 maybe the who's to track down where this material is
13 and to verify that it's in a safe situation.

14 MR. MILLER: So this email from Kathy,
15 does it have some of the background information of
16 people we might be able to contact or how we got the
17 knowledge of it?

18 MR. WEBBER: It does. The original call
19 came in from the NC&A (phonetic) supervisor at Areva
20 in Richland. And it has his phone number and email.

21 MR. MILLER: Do you know him?

22 I just happen to have Dory (phonetic) here
23 and she's familiar with those NC&A folks.

24 MR. WEBBER: Hot dog.

25 MR. MILLER: Yes.

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MR. WEBBER: Okay?

MR. MILLER: Okay. Thank you.

MR. WEBBER: You got it?

MR. MILLER: Anything else, Mike?

MR. WEBBER: That's all.

MR. MILLER: Okay. Thanks.

MR. WEBBER: Thank you.

(Whereupon, at 4:14:14, the conference
call was concluded.)

(ELAPSED TIME: 2 minutes, 50 seconds.)

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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MR. DIVERCELLI: Good morning.

MALE PARTICIPANT: Good morning. What's
up?

MR. DIVERCELLI: I just wanted to let you
guys know where we're going. I'm waiting on a Embassy
staff IT to come down to see if he can help us out.
I'm probably going to have him and headquarters IT
talk and see if they can set up a pathway or
something.

Right now I'm about -- I've got about 19
hours left in the portal transfer that I'm doing to
the TTC. It's just over ten percent done.

MALE PARTICIPANT: That's bad.

MALE PARTICIPANT: We can find a better
way to do that and --

MALE PARTICIPANT: Yes. I was just on the
phone with the computer people here -- the CFC people
-- and they said they have a call with you guys at
7:30ish.

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1 MALE PARTICIPANT: 7:30 their time?

2 MALE PARTICIPANT: (inaudible).

3 MALE PARTICIPANT: Less than three
4 minutes.

5 MALE PARTICIPANT: We thought that that
6 would be a better direct connect somehow. The
7 (inaudible) process isn't going to work. It's taking
8 way too long.

9 MR. DIVERCELLI: No. Citrix isn't working
10 because Citrix times out and logs me off before it
11 even attaches. And likewise, webmail does the same
12 thing. It times out before the attachment's complete
13 because the files are too big.

14 MALE PARTICIPANT: Right. (inaudible)
15 seemed to think that the (inaudible) to contact you
16 guys at some time -- it's been a regular contact with
17 you guys for computer issues and (inaudible) direct
18 file transfer.

19 MR. DIVERCELLI: Okay. I'm guessing that
20 that's somebody that Embassy IT and headquarters IT
21 can talk about.

22 MALE PARTICIPANT: Correct.

23 MR. DIVERCELLI: Because it sounds like
24 it's way beyond me.

25 So I also tried another email pathway.

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1 Did you guys get a second photo?

2 MALE PARTICIPANT: Who'd you sent it to,
3 Rick?

4 MR. DIVERCELLI: I sent it to ET02.

5 MALE PARTICIPANT: We didn't get it.

6 MR. DIVERCELLI: You didn't get it? I was
7 afraid that wouldn't work. I tried it via my personal
8 email. So.

9 Well, we're exploring all options down
10 here. So as soon as I have IT here, I'll call back
11 and get you guys talking to each other.

12 MALE PARTICIPANT: Meanwhile the one or
13 two that you did send over, we got at least a view of
14 one of those in here. Yes, it --

15 MR. DIVERCELLI: They're excellent
16 quality. And I got -- you said the fax copies didn't
17 come through. I didn't think they would. But we'll
18 keep working it.

19 MALE PARTICIPANT: Okay. Thank you.

20 MR. DIVERCELLI: All right. You all have
21 a good day.

22 MALE PARTICIPANT: You too.

23 MR. DIVERCELLI: Bye.

24 (Whereupon, at 4:18:15, the conference
25 call was concluded.)

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1 (ELAPSED TIME: 2 minutes, 47 seconds.)
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6 P-R-O-C-E-E-D-I-N-G-S

7 (CONFERENCE CALL INITIATED.)

8 MALE PARTICIPANT: June, could I brief you
9 on NC&A on that Areva transmit (inaudible)?

10 Areva is sending a shipment of enriched
11 fuel over to -- from France to Japan. (inaudible)
12 says we're not in any shape to take that right now.
13 So Mike Webber sent an email out from Kathy Haney and
14 (inaudible) with that right now because there was a
15 speculation that Areva was going to send it to
16 Richland. And so we weren't sure if it was in our
17 country somewhere or where it is.

18 (inaudible) called (inaudible). Areva --

19 MALE PARTICIPANT: (inaudible). Say it
20 again.

21 MALE PARTICIPANT: There's a 20 percent
22 enriched fuel shipment that was being sent by Areva
23 (inaudible) from France to Japan. Japan says whoop,
24 whoop, whoop, we can't take it.

25 MALE PARTICIPANT: Hold on, we can't take

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1 it now?

2 MALE PARTICIPANT: So there's an effort to
3 try to find a place to put it. Richland was one of
4 the (inaudible) places to put it.

5 MALE PARTICIPANT: Yes.

6 MALE PARTICIPANT: But they can't
7 (inaudible) to take that.

8 MALE PARTICIPANT: In Richland?

9 MALE PARTICIPANT: So they're trying to
10 find other places. But in the meantime, Mike Webber
11 (inaudible) figure out where the stuff is because it
12 could already be in our country and us not know about
13 it.

14 So Dory is tracking it down with Areva and
15 found that they put it somewhere near the Panama
16 Canal. But we don't think it's in our country, but
17 Areva's going to be calling her back to get that
18 information.

19 So I gave that feeder back to Mike to say
20 that we think that it's somewhere in Panama Canal
21 area, but -- and we don't think it's in our country.

22 MALE PARTICIPANT: But are we going to do
23 anything about the request?

24 MALE PARTICIPANT: I don't know that we've
25 been requested to find safe haven for it. The only

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1 question was where it was. (inaudible) go back.

2 I mean, I think that Areva is looking for
3 a place. We may get a request to put it here, but I
4 -- Dory, did you get any sense for that?

5 FEMALE PARTICIPANT: (inaudible) they're
6 still working that issue through (inaudible). They
7 only have a limited number of places that (inaudible).
8 (inaudible). But the NC&A (inaudible) is going to
9 call me back when the transportation person
10 (inaudible).

11 MALE PARTICIPANT: It sounds like we
12 should try to turn this over to not us.

13 FEMALE PARTICIPANT: (inaudible) at
14 Richland.

15 MALE PARTICIPANT: Yes. NMSS.

16 MALE PARTICIPANT: (inaudible).

17 MALE PARTICIPANT: So the only other minor
18 problem we're trying to grapple our hands around is
19 that is that a safeguards information that there's 20
20 percent fuel (inaudible) might put it in an email.
21 You've got a copy of that. I've got a copy of that.

22 MALE PARTICIPANT: Why don't you
23 (inaudible) it that way?

24 MALE PARTICIPANT: Anyway, that action is
25 over.

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1 We got the new update. And I'm going to
2 make you another briefing sheet for your call at --
3 your (inaudible) brief. Actually I (inaudible) at
4 8:00 o'clock (inaudible).

5 FEMALE PARTICIPANT: (inaudible)
6 decisions?

7 MALE PARTICIPANT: No. I'm going to go
8 see what people are thinking and we're going to get
9 some action going --

10 FEMALE PARTICIPANT: Okay.

11 MALE PARTICIPANT: -- here on that too.

12 FEMALE PARTICIPANT: (inaudible).

13 MALE PARTICIPANT: (inaudible).

14 (Whereupon, at 4:23:34, the conference
15 call was concluded.)

16 (ELAPSED TIME: 4 minutes, 39 seconds.)
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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MR. DIVERCELLI: Good evening, gentlemen.

MALE PARTICIPANT: We have like Jim Wiggins and others.

MR. DIVERCELLI: Okay. We're --

MALE PARTICIPANT: -- Chris (inaudible). We got the ET crowd. What's up?

MR. DIVERCELLI: All right. This is Rick Divercelli on the Japan team.

Since we last talked, I've been on the phone with Joe Lawson at the TTC. And we've managed to set up a portal -- a secure portal -- where I'm transferring the pictures. It's transferring at about one picture every five minutes which means that we're about 20 hours away from completing the transfer.

MALE PARTICIPANT: That's wonderful.

MR. DIVERCELLI: But in parallel, I'm told that you guys just sent me a link that -- I've got two computers working this right now. So we'll leave one

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1 going on the transfer to the TTC and I'll go ahead and
2 use the link on the other one and get the transfer
3 going that way. And we'll get the stuff in your hands
4 as quickly as we can.

5 MALE PARTICIPANT: Are you getting anybody
6 to walk -- did you talk to anyone from OIS or --
7 you're talking to the team here about how to do this?

8 MALE PARTICIPANT: Yes.

9 MALE PARTICIPANT: We talked to
10 (inaudible). Did they give us any --

11 MALE PARTICIPANT: (inaudible).

12 MALE PARTICIPANT: (inaudible).

13 MALE PARTICIPANT: That was just the way
14 to get that size of a document onto our (inaudible).

15 MALE PARTICIPANT: (inaudible) the more
16 pressing problem is how they get files that large
17 transmitted to save (inaudible) to a courier or
18 (inaudible) or something like that.

19 MALE PARTICIPANT: (inaudible).

20 MALE PARTICIPANT: (inaudible).

21 MALE PARTICIPANT: Okay. Sorry.

22 MR. DIVERCELLI: It may be that I'll hand
23 deliver them when I come home on Friday. But we're
24 going to work --

25 MALE PARTICIPANT: What was the TTC

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1 connection?

2 MR. DIVERCELLI: Joe Lawson. I worked
3 with him. And he set up a protocol portal -- SMTP --
4 whatever the heck. He spoke a lot of computer speak
5 to me. But he set it up so that right now I'm
6 physically watching the data transfer from my computer
7 to the TTC server directly through the Internet, not
8 through email or anything along those lines. So --
9 and it's IP address to IP address. It's a secure
10 transfer.

11 So whichever one achieves the goal first
12 is the one that's going to get the stuff in your hands
13 the quickest.

14 MALE PARTICIPANT: Okay.

15 MR. DIVERCELLI: Now on a parallel, what I
16 can do is get up another computer and see if I can go
17 through and pick out a few select photographs to send
18 to you. But they're rather detailed and rather large.
19 So it would only be like two to three at a time.

20 MALE PARTICIPANT: Have you guys looked
21 these over or anybody on your team looked them over,
22 Rick?

23 MR. DIVERCELLI: I've looked a few of them
24 over. I haven't looked through the whole file. I've
25 been trying to focus on getting them to you guys. But

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1 I'm going to start looking at them soon.

2 MALE PARTICIPANT: Okay, yes. Well, if
3 you see any ones that need further analysis or think
4 that we might be able to use in our analysis, yes, by
5 all means, we'll set up another line and get three or
6 four of them transferred.

7 MR. DIVERCELLI: Okay. I'll start looking
8 through and see if I can get -- if it looks
9 interesting to me, it must be interesting to you guys.

10 MALE PARTICIPANT: That's fair.

11 MR. DIVERCELLI: That's my threshold. So.

12 MALE PARTICIPANT: Sounds good. Sounds
13 good.

14 MR. DIVERCELLI: Okay. Thank you, guys.
15 We'll talk to you a little later.

16 MALE PARTICIPANT: All right. See you at
17 5:00.

18 MR. DIVERCELLI: Bye.

19 (Whereupon, at 4:29:17, the conference
20 call was concluded.)

21 (ELAPSED TIME: 4 minutes, 34 seconds.)
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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MR. DIVERCELLI: Good evening, gentlemen.

MR. WEBBER: Hey, Rick. How are you?

MR. DIVERCELLI: A little tuckered out,
but we're hanging in there.

MR. WEBBER: Hey. It's only 3:00 o'clock
your time in the morning.

MR. DIVERCELLI: Yes. That's early in my
day. Luckily Chuck and the rest of the team are
actually getting some sleep tonight. So it should be
good for them.

MR. WEBBER: That's good news.

How can we help you?

MR. DIVERCELLI: Hey, we got a delivery of
300 photographs. And they're on the order of six to
eight thousands kilobytes or six to eight megabytes
each which means I've got a three gig file here of
photographs. We'd like to get them to you. But with
Citrix and with webmail, it's virtually impossible to
send any single one that size.

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1 So what I wanted to share with you guys is
2 I'm working on a program to get the photographs up to
3 you and over to you. And right now, I'm going to make
4 a phone call into the technical training center, a guy
5 by the name of Joe Lawson, who's our whizbang on FTP
6 files. And we're going to see if we can get it to you
7 that way.

8 So primarily, I've had them for a couple
9 of hours. I've been trying to just get them to you so
10 I could just call you and tell you they were there.
11 But the process is not supporting me very well.

12 MR. WEBBER: Hey, Rick, do you want us to
13 work that from here through OIS?

14 MR. DIVERCELLI: If you want. I am on
15 Citrix, and I've got the files on the Citrix W drive
16 which if I understand it correctly, it's basically
17 this machine's C drive that Citrix communicates to.

18 So I have them electronically. They are
19 on a computer. And I can view them in Citrix. So if
20 somebody on that end can figure out a way to steal
21 them from me so that you can get them, that's fine. I
22 have them in electronic format here. I can always
23 reload them if they steal them. That's all fine.

24 MR. WEBBER: Don, you have an idea?

25 Why don't we think about it and we'll get

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1 back to you?

2 MR. DIVERCELLI: Okay.

3 MR. WEBBER: Okay?

4 MR. DIVERCELLI: Yes. I'll be right here.

5 And while you're thinking, I'm going to work with Joe
6 Lawson and see if we can get it to you another way.

7 MR. WEBBER: Okay. Sounds good.

8 MR. DIVERCELLI: All right. Talk to you
9 all later.

10 MR. WEBBER: Thanks, Rick.

11 MR. DIVERCELLI: Yes. Bye-bye.

12 MR. WEBBER: Bye-bye.

13 (Whereupon, at 4:32:19, the conference
14 call was concluded.)

15 (ELAPSED TIME: 6 minutes, 53 seconds.)

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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MALE PARTICIPANT: I have the Chairman on
ET bridge.

CHAIRMAN: Hello?

MR. WIGGINS: Hello, Chairman. It's Jim
Wiggins.

CHAIRMAN: Hey, Jim.

MR. WIGGINS: Yes. I just took the watch.
But I think the biggest thing to work on for the
evening would be protective measures. As you probably
realize, that's going to be a major topic in the FP's
call tomorrow that you'll be sitting in.

CHAIRMAN: Okay.

MR. WIGGINS: So there's a 9:00 o'clock
p.m. T call with one of the key players --

CHAIRMAN: Okay.

MR. WIGGINS: -- to try to get that nailed
down. I think you're aware of the results for I think
it's Hawaii and Alaska. They seem to be pretty
conservative. So we're trying to get that back in the

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1 right spot.

2 CHAIRMAN: Okay.

3 MR. WIGGINS: Otherwise, in the continuing
4 saga of the Bechtel equipment, we now find that
5 there's a third shipment that may need to occur to
6 make the first train work.

7 CHAIRMAN: Okay.

8 MR. WIGGINS: And that may not happen
9 until Thursday.

10 CHAIRMAN: Okay.

11 MR. WIGGINS: And they're beginning to get
12 power up in the facilities. You can see the control
13 room in Unit 3 has got power.

14 CHAIRMAN: Okay.

15 MR. WIGGINS: The power came back on.

16 And four 80-volt (inaudible) restored of
17 course to all the plans. But you can't (inaudible) a
18 lot of utilities to that because for all the water
19 they've been dumping in the units and such, there's a
20 lot of grounds. So we'll have to see what they can
21 get out of it.

22 And I think that's about the only news for
23 -- there was a good call with the consortium. Things
24 are beginning to gel. They're starting to get an idea
25 of what equipment might be brought to bear.

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1 I think there's a need to -- there's sort
2 of etiquette in approaching the Japanese that Chuck
3 and his guys are advising like you don't push a lot of
4 stuff to the Japanese and have it arrive and let them
5 pick what they want. Rather you've got to ask them
6 what they need and ship them only that.

7 CHAIRMAN: Yes.

8 MR. WIGGINS: So that's about it.

9 The team's asleep right now over in the
10 (inaudible).

11 CHAIRMAN: Yes.

12 MR. WIGGINS: All right?

13 CHAIRMAN: In terms of priorities, what
14 are our top priorities?

15 MR. WIGGINS: To get this dose assessment
16 done --

17 CHAIRMAN: Okay.

18 MR. WIGGINS: -- right now. And yes, just
19 continue to follow the progress at the facility.

20 CHAIRMAN: Okay.

21 MR. WIGGINS: The normal amount of
22 information that we need to kind of check -- getting
23 some higher than normal temperatures in Unit 1. I
24 think you might have heard that there's some
25 thermocouple readings that they've been able to get.

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1 (inaudible) some are at 740° Fahrenheit at the bottom
2 head.

3 CHAIRMAN: Okay.

4 MR. WIGGINS: And that's a lot higher than
5 normal. But based on metal temperatures and things,
6 that's not really, really bad. 740's not that high in
7 (inaudible).

8 But that's it really.

9 CHAIRMAN: Okay.

10 MR. WIGGINS: Okay?

11 CHAIRMAN: Good. (inaudible) metrics for
12 calling me if there's any major engagement I need to
13 make with the interagency or if we need to make
14 changes to any of our protective action.

15 MR. WIGGINS: Yes, sir.

16 CHAIRMAN: Okay. Thank you.

17 MR. WIGGINS: That's it.

18 CHAIRMAN: Thanks.

19 (Whereupon, at 4:35:39, the conference
20 call was concluded.)

21 (ELAPSED TIME: 3 minutes, 17 seconds.)
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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MR. APPLEMAN: Hi, Jim. This is Pat Appleman (phonetic). Do we have any more round on possible (inaudible) criteria from a 50-mile evacuation zone?

JIM: Yes. We worked on that last night. And we finished it early this morning.

I don't have it in front of me. But I'll give you the highlights.

It's what you would think, Pat. Now, this would apply to -- what we did is we fashioned it after re-entry criteria that would be used under a more classic response here domestically. And what we're looking at -- and it seems to be not rocket science here -- but the releases have been terminated -- I guess I would say or really controlled well -- as far as the activity release is under control. A decision would require actual field data and samples in the affected areas before we would move. We would not want to alter the protective action or relax it

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1 without actual infield data and just rely on say
2 better analytics or a different view of the source
3 term.

4 And lastly, that a re-entry would have to
5 meet appropriate ETA pags (phonetic) which basically
6 is the projected dose in the first year. It would
7 have to be less than two rams, and less than .5 ram in
8 the second year and 5 ram in 50 years overall. So we
9 came up with that.

10 The White House is interested in a
11 different form of re-entry also, then we'll have to
12 think about. And that is -- it does sound rather
13 classic -- are there conditions wherein we would allow
14 people to re-enter the area for brief periods of time
15 -- essentially give them some stay times -- to
16 retrieve things -- valuables, whatever else they left
17 when they bagged it and didn't take with them.

18 We haven't thought about that too much.
19 But I think it's going to probably end up being nearly
20 somewhat the same thing. It'll probably look at some
21 sort of version of the pags with some sort of daytime
22 in it. But that's just me off the top of my head. I
23 think I see Don Cole (phonetic) shaking his head.
24 (inaudible). That may be the way to go. But we'll
25 think about that too. Okay?

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1 JIM: Okay. Thanks.

2 MR. APPLEMAN: Anything else?

3 BILL: Yes. Jim, this is Bill
4 (inaudible). One question.

5 In the (inaudible) from the status report,
6 it sort of indicates that Unit 4's spent-fuel pool has
7 been refilled. Is that true?

8 MR. APPLEMAN: (inaudible).

9 MALE PARTICIPANT: Dave (inaudible). I
10 don't know if you saw any of the news today or not,
11 Bill, but they did get one of those concrete pumping
12 trucks and delivered about 150 tons of water to the
13 spent-fuel pool in Unit 4 today. So yes, they do
14 think that they've got quite a bit of water back in
15 there.

16 We heard reports that they're going to put
17 a camera on the end of the pumper truck so that we
18 might get some video from that. But we haven't seen
19 that yet.

20 BILL: Well, that leads to the second
21 question which is Unit 4 was assumed in that worse --
22 whatever the term is -- worse possible hypothetical
23 dose term. Are we reconsidering that based on this?

24 MR. APPLEMAN: Not right now we're not.
25 Not until you verify it and know that it's stable

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1 because even if it has water in it today, you could
2 not have water in it tomorrow. You can get a
3 structural failure. I can postulate a lot of things.

4 I don't know that we have enough
5 information, Bill, to do that.

6 Also, there's a lot of energy behind what
7 the source term is. I'll put it that way. It took
8 two days to negotiate this source term. I don't know
9 if we want to spend another two days trying to
10 negotiate another one. And if we did, what would we
11 do with it? I don't know that we would relax per our
12 criteria. We would not relax the protective action by
13 just a change in the analyses. You follow me?

14 BILL: Well, I understand what you're
15 saying. But I would think if it was confirmed that
16 Unit 4's spent-fuel pool is full of water and less
17 than 100° C, maybe we'd be able to take that term off
18 the table.

19 MR. APPLEMAN: Might. You might. We're
20 not heading in that direction today.

21 BILL: I understand. Thanks.

22 MIKE: Jim, it's Mike (inaudible). I just
23 want to follow up on that line of thinking that Bill
24 offered here.

25 The recommendations or the issues that the

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1 - Navy folks have regarding their dependents and others,
2 is the source from that we're assuming for our work
3 here in terms of Unit 4 and the partial assumption
4 about potential for draindown in Unit 3, is that
5 influencing some of the Department of Defense's
6 concerns?

7 MR. APPLEMAN: No.

8 MR. COLE: This is Don Cole, Protective
9 Measures Team Director.

10 I believe it is. Our understanding at
11 this moment is they've got a set of things that they
12 would devise under certain circumstances. Part of
13 what we intend to accomplish in a call at 9:00 o'clock
14 this evening is to better understand exactly what
15 they're thinking and the basis for their thinking.
16 But at the moment, we believe that it was thinking
17 that was derived from that short term that included
18 spent-fuel pool, half of spent-fuel 3 out of reactor
19 #2 and the run that was done by the NARAC (inaudible)
20 with very artificial meteorology. (inaudible)
21 southwest right towards Tokyo for 36 straight hours.

22 So you heard me give you a bunch of
23 significant conservatisms in the possibility if that
24 occurred, et cetera, et cetera. But we suspect that
25 that's what driving their (inaudible).

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1 MIKE: Okay. That helps because I was a
2 little concerned that maybe what they are seeing
3 actually in field or in measurements that that might
4 be influencing their thinking now which would be a
5 little bit surprising to hear that.

6 MR. COLE: We have been looking at data
7 that the Navy has from the GW in port there in
8 Yokohama south of Tokyo and other data trying to
9 understand and work with them, what they're seeing,
10 what it might say and other (inaudible). They don't
11 have data that gets you anywhere close to those
12 (inaudible).

13 MIKE: Okay.

14 MR. COLE: It doesn't stop the work.

15 MIKE: Right.

16 MR. APPLEMAN: I think you might have
17 heard and you may hear some maybe ambiguous recording
18 on this, but (inaudible) and the Department of Defense
19 has exercised what's a called a voluntary (inaudible),
20 (inaudible) departure process for Department of State
21 employees and dependents, DoD dependents -- things
22 like that.

23 MIKE: I think I did hear that with KI
24 tablet also as an option.

25 MR. APPLEMAN: And they've issued KI.

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1 They've issued KI with instructions not to use it.

2 MIKE: Okay.

3 MALE PARTICIPANT: There's a focused
4 interagency question that needs to be addressed with
5 regard to what they're calling trip-wire levels. Now
6 what the trip-wire -- they want to say a trip-wire or
7 a boundary condition. If you cross the boundary
8 condition, then you go from just having KI to taking
9 it. They want a trip-wire for having the departures
10 being voluntary to mandatory. That's something that's
11 going to be discussed at what's called the deputy's
12 meeting. And the Chairman will sit in on that with
13 Deputy Secretary-level people from around the
14 interagency crowd. But one of the items will keep
15 tomorrow.

16 MR. APPLEMAN: I think some people here
17 felt that there's a mandatory evacuation by Defense
18 and by maybe State. But we can't verify that. And
19 the discussion at that videoconference that I was on
20 was all voluntary. It had all the people in it that
21 would have to correct it. None of them stood up to
22 correct it. Okay?

23 And also the State Department's reporting
24 they're not get a lot of takers. Now some of the --
25 they can't measure some of it because you got to kind

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1 of look at the obvious points. Apparently there's a
2 lot of seats you can get on commercial flights out of
3 Nogata and not out of the Tokyo airport.

4 MALE PARTICIPANT: Serita?

5 MR. APPLEMAN: Serita. Yes, you can get
6 out of there pretty easily (inaudible). But they did
7 get -- to the point where they stood down some of the
8 charters that the Department of State had arranged.

9 The Defense Department's getting a few
10 more takers. We heard numbers of 1600 people left
11 already, 7700 are waiting to go. So -- but it isn't
12 mandatory.

13 MIKE: Okay. Great. Thank you.

14 I have one question and that is on the
15 seawater issue with this concentration of salt I guess
16 from the bottom of what's left in the cores. Are they
17 also looking at boron and how much boron they dumped
18 in the cores and it's (inaudible) out?

19 DAVE: Yes, Mike. This is Dave
20 (inaudible).

21 Our discussions with (inaudible) with the
22 industry folks today. We got some differing views on
23 how much boron they thought they might need. We're
24 thinking it's somewhere around 300 parts per million
25 would be sufficient. But our recommendation to them

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1 is going to be whether you have boron or not, you
2 should switch over to the freshwater --

3 MALE PARTICIPANT: Yes. Never put boron
4 in anything.

5 DAVE: We had reports early on that they
6 were mixing boron in a big pit and then spraying it in
7 through the -- how they was getting it in the cores in
8 all three reactors. But we don't know how much they
9 put in or when they ran out of that.

10 MALE PARTICIPANT: Yes. Well, (inaudible)
11 because the information we have is they have a whole
12 bunch of boron and don't need anymore --

13 DAVE: Okay.

14 MALE PARTICIPANT: -- is what I heard too
15 that --

16 MIKE: Were they putting boron in the
17 spent-fuel pools for 3 and 4?

18 MALE PARTICIPANT: I don't know that.

19 MIKE: Okay.

20 Okay. I don't have any other questions
21 right now. Thank you.

22 MR. APPLEMAN: Anything else?

23 (No audible response.)

24 MR. APPLEMAN: Okay. I guess it's 7:30.
25 (inaudible) the next one.

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MIKE: Great. Thank you.

MR. APPLEMAN: Thanks a lot.

(Whereupon, at 4:47:32, the conference
call was concluded.)

(ELAPSED TIME: 11 minutes, 32 seconds.)

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P-R-O-C-E-E-D-I-N-G-S

(CONFERENCE CALL INITIATED.)

MR. WIGGINS: All right. Good evening, everyone. Jim Wiggins, the ET Director. This is our 8:00 o'clock discussion. Try to keep it short and to the point.

Not much different news overall globally on the units and on the doses as the units are fairly static and the doses -- if there's a trend, it's a declining trend.

Some progress on powering up the facilities. Have power to Units 1 and 2 and 3. And they're partially -- some things in the units are off like the Unit 3 control room's got lights now.

I got a power (inaudible) load center in Unit 4. And internal power's been restored to Units 5 and 6, but the Unit 6 diesel we still hold (inaudible). We want to check into the diesel (inaudible) the availability of fuel oil -- where they stand with that. It's generally difficult to get commodities around in that section of Japan as we

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1 speak.

2 The information we have is that ANS was
3 grounded in the last couple days due to weather. We
4 haven't heard yet this morning if it's flying. We've
5 got an eye on that. We do get the data from ANS.

6 We'll still have a 9:00 o'clock call with
7 the look at the dose projections in country in Japan.

8 The DoD folks are concerned about certain projections
9 that may indicate some dose (inaudible) in the areas
10 around Tokyo that are a bit more than we think would
11 likely occur. So it might be a question or an issue
12 with how the (inaudible) was selected and how it
13 interacts with the NARAC code. So as with any code,
14 you need to understand how it works. And that's what
15 our guys are going to do to see where that goes. But
16 the Department of Defense is really concerned about
17 its members and its dependents. So they've been
18 focused on this for the last several days.

19 The biggest technical issue has to do with
20 concern for the continuing seawater injections
21 principally in the vessels where (inaudible) heat is.

22 There is some (inaudible) calculations done by
23 (inaudible) and (inaudible) that would suggest that
24 they are basically caking up the bottom of the vessel
25 with salt. That might not be the best thing overall.

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1 It certainly would be much better if they could use
2 freshwater to try to desalinate the vessels. But
3 that's not an easy thing to do until they get a good
4 supply of freshwater.

5 The collective wisdom of our team plus
6 others that have looked at it like the TEPCO
7 (inaudible) is probably it would be better using
8 freshwater rather than salt water. But if you don't
9 have freshwater, you better continue to use salt
10 water. So that's certainly a high interest item, and
11 it's a high interest item from TEPCO. That's one of
12 the things they're asking is help (inaudible) both in
13 analysis and how to mitigate the effects.

14 And let me see what else.

15 The saga of the Bechtel train continues to
16 (inaudible). Both flights did land. Now we find out
17 there's a third shipment needed to get the first train
18 to work. So that seems to further underscore the need
19 for the U.S. government to identify another department
20 or agency that has real physical assets that's used to
21 project managing for practical things like building
22 systems and operating them. We're pretty good at
23 looking at the designs to determine whether the design
24 will work, whether there's shaky issues with the
25 design -- things like that. We come up with it short

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1 when it comes to actually making it happen. And we
2 come up really short when it has to do with logistics
3 -- what's all needed to make it -- put everything
4 together and get it to work.

5 Had a call or a secure briefing earlier
6 this evening by Richard Reed out of the National
7 Security Staff at the White House with a lot of U.S.
8 government agencies participating. I thought it was
9 important that the USAID individual as she was
10 discussing and describing a number of things going on
11 and talking about a large humanitarian effort also
12 gave kudos to NRC and DOE, Naval Reactors and others
13 for the boots on the ground helping the Ambassador out
14 and helping the licensee -- offering help -- the
15 licensee technical help.

16 But she did mention about the fact that
17 there's a search going on that's a combination of the
18 White House, AID and others for who should be this new
19 -- or this government agency or government department
20 that would step up and take a stronger coordination
21 role in country. That's especially important now that
22 we have the industry consortium that's getting spun up
23 and ready to start delivering some additional help to
24 TEPCO.

25 I think why don't I stop there? We can do

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1 some questions.

2 (Whereupon, at 4:56:31, the conference
3 call was concluded.)

4 (ELAPSED TIME: 6 minutes, 26 seconds.)

5 P-R-O-C-E-E-D-I-N-G-S

6 (CONFERENCE CALL INITIATED.)

7 MR. CASTO: Good evening. Good evening.

8 MALE PARTICIPANT: Hi, Chuck.

9 MALE PARTICIPANT: Good morning, Chuck.

10 MALE PARTICIPANT: Good evening.

11 MR. CASTO: Good morning, guys. Are we
12 having a great day?

13 MALE PARTICIPANT: So far.

14 MR. CASTO: We had gotten word that IMPO,
15 NR and GE did a salt analysis. Do we have that?

16 JIM: I don't know if it's tangible. But
17 Dave mentioned that (inaudible) and (inaudible) and us
18 looked at the issue of salt, determined that their
19 conclusion is the salt cake is already there. But you
20 should continue using seawater until you can get a
21 freshwater replacement.

22 MR. CASTO: Jim, with the anecdotal
23 information we're getting on Unit 1 reactor
24 conditions, does that sound viable?

25 MALE PARTICIPANT: You mean the

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1 thermocouple information?

2 MR. CASTO: Yes.

3 JIM: I hesitate to try to engineer it
4 from here. We're trying to get Dave in here.

5 MR. CASTO: Yes. One of the things that
6 there was speculation based on TMI history that the
7 thermocouples aren't all that reliable.

8 JIM: All speculative. (inaudible) the
9 operating experience (inaudible) from TMI that the
10 thermocouples weren't reliable.

11 MR. CASTO: I think if nothing else, you
12 have to prepare for the contingency that that pump
13 can't pump in there.

14 JIM: What pump?

15 MR. CASTO: The freshwater pump.

16 JIM: Why would that be? Just asking.

17 MALE PARTICIPANT: It'll be blocked up
18 with salt.

19 MR. CASTO: Well not only that, if you
20 have high pressure and high temperature, I would
21 imaginé that's a low-head pump.

22 JIM: Oh, you're thinking about the low-
23 back (inaudible)?

24 MALE PARTICIPANT: Yes.

25 JIM: That old coarse spray problem --

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1 whatever that was called -- with the steam coming out
2 of the core causes all the coarse spray water to go
3 around the edges and not in the core itself.

4 MR. CASTO: Yes. And also have the head.

5 I think this is a centrifugal pump out on some old
6 closed line that's going from the dam to the plant
7 that they use to fill up the plant. It's called the
8 original water line.

9 JIM: Yes.

10 MR. CASTO: And if you've got high
11 pressure in that reactor, you ain't pumping in there.

12 JIM: Mr. Skeen (phonetic) is here. Why
13 don't you ask your question.

14 MR. SKEEN: Hey, Chuck.

15 MR. CASTO: Hey, Dave.

16 Dave, I got the salt question. We've got
17 to circle back on that here in a minute. But I guess
18 my question is if -- let's assume pressures are high
19 on Unit 1 and temperature -- you assume that -- I
20 suspect that that original water pump is a low-head
21 centrifugal pump.

22 MR. SKEEN: The original water pump --
23 what are you talking about?

24 MR. CASTO: Their solution for freshwater
25 is a line coming from the dam to the plant. I think

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1 it was the original -- it's called the original water
2 line which I think was used to fill up -- because they
3 don't have any freshwater. It was used to fill up the
4 plant.

5 MR. SKEEN: Okay.

6 MR. CASTO: And they're recovering that
7 line, having some problems with the power supply to
8 the pump. And I think what they're hoping to do is
9 fill up the CST and then from the CST use something to
10 pump into the reactor.

11 MR. SKEEN: Okay.

12 MR. CASTO: And I guess I'm concerned
13 about what is that something that you're going to use
14 to pump into the reactor given the damage in the
15 reactor building.

16 MR. SKEEN: Well, what are they using now?
17 They're coming through coarse spray in Unit 1, right?

18 MR. CASTO: Right. But I think there's
19 some question about whether -- originally they burnt
20 up a couple fire pumps trying to pump into there.

21 MR. SKEEN: I didn't know that.

22 MR. CASTO: And are they really pumping
23 into Unit 1 -- I guess that's the question -- with
24 whatever it is they're using right now?

25 DAN: This is Dan. I think the other

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1 thing is that the pressure information that they have
2 and they question every bit of information that you
3 have. But pressure information that they have and the
4 temperature data are the 180 degrees out.

5 So there's kind of three options. The
6 pressure's right and the temperature of whatever water
7 is in there is a lot cooler than that 700° number and
8 that 700° number represents something else like core
9 material on the bottom of the vessel. Or the
10 temperature represents of the water in which case the
11 pressure instrument is shot. Or both of those are
12 lousy data points and they don't tell us anything.

13 MALE PARTICIPANT: Right. And that's been
14 our problem from the beginning is we don't have
15 reliable instrumentation.

16 I will share with you. I talked with Gary
17 (inaudible) earlier today about the thermocouples. He
18 was recalling from TMI that when they lost it that he
19 would be suspect of any thermocouple that was telling
20 you a temperature of 700° or more just because of the
21 heat or whatever could have happened in there.
22 They'll be out of calibration at this point or they
23 may have re-melted. The bi-metals may have re-melted.
24 And so they're not set at any temperature anymore.
25 And absolute value probably tells you nothing. But if

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1 it trends in a positive or a negative direction, that
2 might at least tell you if the temperature's going up
3 or down. But you'll know no real numbers on what the
4 actual temperature is.

5 MR. CASTO: The conversation started off
6 by this discussion that he has with (inaudible) --

7 MALE PARTICIPANT: Right.

8 MR. CASTO: -- on the salt and cake down
9 there. Was that judgment or calculation? Is there a
10 calculation or --

11 MALE PARTICIPANT: On how soon the salt's
12 going to get up to the lower (inaudible) part?

13 MR. CASTO: Yes.

14 MALE PARTICIPANT: That was calculations
15 that all of us did. Our folks did it here.
16 (inaudible) did it. I think (inaudible) and IMPO did
17 calculations. And we all had a little different take
18 at it, but we came out the same place. They don't
19 have two weeks left.

20 MR. CASTO: We need to get that
21 information to TEPCO and then NISA.

22 MALE PARTICIPANT: Well, we were going to
23 have a call with them at 9:00. I understand that's
24 been pushed off to 11:00 or even 12:00 this evening
25 now.

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1 MR. CASTO: Okay. But we've notified NISA
2 of this eventuality or this analysis. So it would be
3 great -- it's imperative that whatever it takes to get
4 that information to TEPCO.

5 MALE PARTICIPANT: Does that mean you want
6 the hard copy?

7 MR. CASTO: Yes, I think we owe them, not
8 just verbal. We owe them the documents.

9 MALE PARTICIPANT: Give them the
10 documents, they can make their own judgments?

11 MR. CASTO: Yes, sir. Because they need
12 to validate the assumptions that are in it themselves.

13 And I think by doing that, that confirms -- just
14 telling them something is different than showing them.

15 So that I think is the most urgent thing that we need
16 to deal with right now is to get whomever's document.

17 MALE PARTICIPANT: Okay. We can work out
18 (inaudible) in D.C.?

19 MR. CASTO: Yes. And --

20 MALE PARTICIPANT: (inaudible).

21 MR. CASTO: I don't know that I'd give
22 them everybody's because that probably would just --
23 well, I don't know. You guys decide what's the best
24 one to give them or give them all to them. That may
25 confuse them. But somehow, one of those analyses

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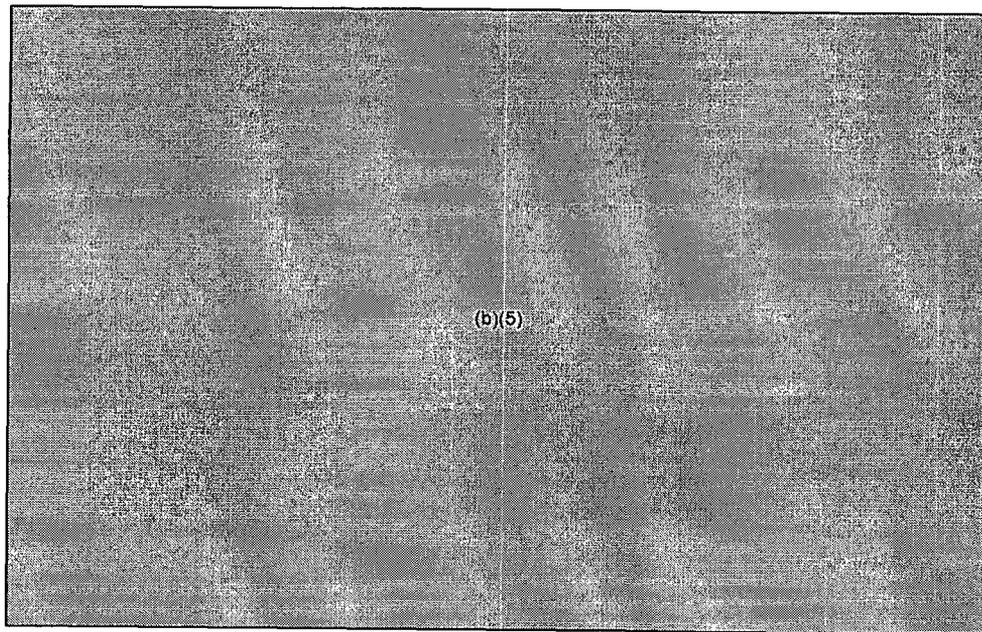
1 needs to get to them immediately.

2 JIM: I think it would be helpful if they
3 see more than one.

4 MR. CASTO: Right. Okay. Whatever your
5 judgment is, Jim. You're better at this than I am.
6 So whatever your judgment is.

7 JIM: Not really. I'm just saying if you
8 were sitting there in their shoes and you got a single
9 calculation --

10 MR. CASTO: Okay. That's fine. I'm cool
11 with that.



21 JIM: Well, maybe not by much. But you've
22 got to watch the guns and butter argument. Maybe you
23 want both.

24 MR. CASTO: Yes. But they only have so
25 many people, Jim. They're really desperate for people

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1 -- so -- and engineers. So they have very scarce
2 resources and they've got to use them in the right
3 places, and we need to help them make that decision.

4 I think the information we gave them last
5 night was invaluable to them on severe accident, that
6 R800 course material I think is going to be very
7 helpful for them.

8 JIM: We gave them the NUREG?

9 MR. CASTO: Yes, I gave them the NUREG
10 last night and dog-eared the pages that they need to
11 pay attention to because that's a big old thick NUREG.
12 So they have to translate it.

13 JIM: But you all highlighted it, right?

14 MR. CASTO: Yes, that's right. We dog-
15 eared it and put yellow stickies on it and everything
16 else. But that manual which we knew two weeks ago is
17 -- I mean, it walks this accident right down to the
18 very end. So I think that was very helpful for them.

19 The other concern that we have is there
20 may be a gap between us and NR and others.. But -- and
21 I've asked the dose people to verify this. But
22 there's a real potential that Unit 2 and 3 are
23 continuously venting -- likely so.

24 JIM: Okay. From where?

25 MR. CASTO: Yes.

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1 JIM: From where?

2 MR. CASTO: I don't know. I don't know
3 where they're venting from. But I think there's IR
4 data and I think -- and I asked the dose people to try
5 to confirm refractory metals and iodine -- whether
6 there's a continuous vent out of 2 and 3. I think NR
7 thinks there's a continuous vent. Well, I know NR
8 thinks there's a continuous vent out of 2 and 3.
9 Whether it's from that broken line and suppression
10 pool on Unit 2 -- and I think on Unit 3, our IR data
11 isn't refined enough to tell you where it's coming
12 from. But it may be coming in to the stack. But it
13 appears to some people there's a continuous vent out
14 of 2 and 3.

15 JIM: So out of the vessel though? Not
16 the fuel pool or both?

17 MR. CASTO: Yes. Out of the reactor.

18 JIM: Okay.

19 MR. CASTO: Yes. But you have such a
20 composite source term up there, it's very hard to use
21 the dose data to confirm where anything's coming from.
22 But I asked them to look for refractory, iodine.
23 Tell us is it a continuous vent or not. But given the
24 instruments they're flying with, that's difficult
25 without data on the ground up there. They're trying

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1 to get inside the 13-mile circle now -- today because
2 actually the country doesn't have any (inaudible) up.

3 So they're going to try to get in within the 13 miles
4 to try to get some more samples -- more accurate
5 sample data. So we're fighting a few fronts here that
6 are of concern.

7 JIM: Okay.

8 MR. CASTO: And the other thing, we're
9 trying to get in a battle rhythm. We're arranging
10 systematic meetings. Now that the Cabinet's gotten
11 involved -- when was that -- night before last I think
12 the Cabinet got involved and the Cabinet Ministers
13 want everybody to cooperate fully and all that. And
14 we had a great handshake with the Cabinet, and we've
15 had a couple meetings with the Cabinet-level
16 yesterday.

17 And so, from that now, we're going to the
18 lower level and trying to get into a battle rhythm
19 with NISA and TEPCO. We'll meet with them. I forget
20 the exact times. But I think 6:45, we're going to
21 start having phone calls with TEPCO on the latest data
22 -- 6:45 every morning. And then we have an 8:00
23 o'clock amongst ourselves. And then we're going to
24 meet face-to-face with NISA at 10:00 o'clock everyday.

25 And then it just goes on through the day -- a battle

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1 rhythm.

2 And USFJ, the Admiral's coming over again
3 this morning. So we want to work with him and
4 establish a battle rhythm with him. So we'll probably
5 meet with USFJ in the afternoons once we have all the
6 information refined. And then of course the
7 Ambassador round-up at 6:00 o'clock, and then the
8 Cabinet meeting at 8:00 o'clock in the evening.

9 JIM: Do you know anything of a Admiral
10 Willard, Ambassador and somebody else planning a fly
11 over?

12 MR. CASTO: Yes, they're flying over.
13 They're going up today. We just out of the staff
14 meeting this morning. He was in a hurry to go up and
15 do the fly over.

16 They're going up to Sendai and they're
17 going --

18 JIM: I don't think it's the plant. I
19 think it's the affected area.

20 MR. CASTO: Yes. They're going up through
21 the affected area and going up to Sendai and doing
22 some work up there at the shelter and that kind of
23 stuff.

24 So I think we've gone through this
25 storming phase and it took a week and a half. And

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1 we're in kind of the forming phase. And then after we
2 get this formed in a day or two, we'll get into a
3 norming phase which is a battle rhythm that can
4 hopefully keep some of these agencies at bay or
5 informed -- not at bay -- but inform them so that
6 there's less chaos in data and information flow.

7 So I think we're finally -- once the
8 Cabinet got involved night before last, it broke
9 through any barriers that there were if there were
10 any. And now we can get into a forming stage and a
11 norming phase where we can get systematic data.

12 Meanwhile, while we're trying to get
13 organized, we've got concerns -- technical concerns --
14 with the reactor. So we're trying to work that in
15 parallel. So I think that we're having progress. It
16 probably would have been nice to have it last week.
17 But we're getting it. So that's where we are, and I
18 guess that's what I wanted to talk about this morning.

19 JIM: Okay. Are you getting a sense of
20 improving relationships -- I'll put it that way?

21 MR. CASTO: Yes. That's what I said.
22 After the Cabinet meeting night before last -- I think
23 it was night before last -- yes -- night before last,
24 that Cabinet meeting, any limitations there were are
25 gone I think as far as relationships once the Cabinet

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1 got involved.

2 JIM: Okay. There's still some words
3 flying around from various points. We'll talk about
4 --

5 MR. CASTO: Well, that's -- I don't know
6 what to tell you. I mean, just like yesterday -- I
7 think it was yesterday morning, the big crisis with
8 USFJ said that TEPCO had walked out of our meetings
9 and wasn't meeting with us. And that's 100 percent
10 inaccurate.

11 JIM: Yes. You were sitting there just
12 going into a meeting with them.

13 MR. CASTO: Right, right. And USFJ's
14 saying well, they're not playing with the NRC. And
15 it's completely wrong. I mean, that's completely
16 wrong information.

17 And what had happened was it was somebody
18 down here in the Jefferson Room down in the basement
19 in the Embassy Op Center. I don't know how they -- it
20 was one of their liaison people that wrote it in a
21 report down here in the Jefferson Room. And that got
22 spread around the world. I do know what the source of
23 that person's decision to write that is.

24 JIM: Yes. How about the FDF (phonetic)
25 people? Is anything going on with them?

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MR. CASTO: I've got to talk to the Admiral this morning because that's very sensitive -- JSF and FDF and the Admiral. I'm going to elicit the Admiral's help on that this morning because I think it's much easier for us to work military to military. So when he gets over here mid-day, I'm going to ask him to take the lead on that issue from the mechanical side. And Bill Cooke's still working the TEPCO side. So I'm hoping that'll come together.

JIM: [REDACTED]

(b)(5)

And it helps a ton to have General Crowl

1 (phonetic) and Admiral Rowan (phonetic) in the room.
2 I mean, because they can talk -- they can talk to the
3 fatigues -- the fatigues. And that helps out
4 immensely with the relationship. It's just much
5 better for us to work military to military. And we're
6 working with NISA. And working with TEPCO, but with
7 NISA there. That's part of the forming and norming
8 relationship that's happening.

9 I see long term, the USFJ working with MoD
10 and FDF with technical consultation from NR and NRC
11 and others.

12 JIM: Okay. Let me tell you something
13 else then.

14 We have one of those (inaudible) calls
15 with the White House.

16 MR. CASTO: Yes.

17 JIM: And the Embassy was in on that too.
18 And there are a number of things going on, most of
19 which are radiological if there's any of it that
20 pertains to us. They're talking about KI distribution
21 and things like that. But there's some expectation
22 that at some point the Japanese will ask for
23 assistance on KI like they'll need some more. I don't
24 know that that's your guys area. It looks like the
25 rest of the government will take care of that.

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1 One interesting point though, the USAID
2 person, Nancy Limberg (phonetic), did allude to the
3 fact that there needs to be another government agency
4 in that would take a stronger hand at coordinating the
5 real infield implementation of things. That's what
6 the Chairman's been shooting for.

7 MR. CASTO: Yes. I don't know whether it
8 would KI or not. But the Chairman called last night
9 about a logistical organization.

10 JIM: Yes. That's what it talked about.

11 I've changed subjects on you from KIs to
12 something else.

13 MR. CASTO: Yes.

14 JIM: This is looking like the Bechtel
15 thing and not the ensuing things that come later like
16 that. I guess you'll eventually to get to some
17 (inaudible) for freshwater or things like that. And
18 the Chairman's been shopping or looking or asking that
19 another agency step up and take that -- an agency more
20 attuned to that type of activity.

21 MR. CASTO: Yes. That's what we said from
22 the beginning. We're not loggies. We can't do the
23 logistical stuff. We can FedEx.

24 JIM: So he basically got AID on his side.

25 MR. CASTO: Good. I don't know what

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1 Mark's role in AID. He's at least a regional
2 administrator if not more -- was here all day
3 yesterday. We had good conversations with him. Nice
4 guy. And I think he's headed out of here today.

5 And today, some senior official from the
6 dose side of DOE is in here today. She's -- so I'm
7 sure we'll talk with her. But --

8 MALE PARTICIPANT: I came over on the same
9 flight with Mark, and he was very complimentary of the
10 people that we've got embedded down there in
11 Washington -- Jason and Mike and I'm not sure who all
12 the folks are. But he passed that through to them.

13 JIM: I saw Jason the other day. He had
14 come back.

15 MARTY: Just a couple things, Jim. Hey,
16 Chuck, it's Marty.

17 Where do we stand with respect to the
18 paper or the (inaudible) you're developing on
19 (inaudible) respect to exit strategies?

20 MR. CASTO: Well, I don't think we're very
21 far along on that, Marty. I was hoping to work on it
22 honestly. And I know DOE is -- I walked in with them
23 this morning. And the lady that's coming in for DOE,
24 I think they're doing the same thing. They had
25 mentioned that they're starting to think about exit

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1 strategies.

2 MARTY: Well, we had a draft here last
3 night. I'm just sort of wondering, did we forward it
4 to you?

5 MR. CASTO: I have not seen it.

6 MARTY: Yes. You don't need to start from
7 a scratch piece of paper. We need to get you the
8 draft that we were developing.

9 MR. CASTO: Yes. I think that concept
10 that you and I talked about the other day is probably
11 -- still remains a viable option.

12 MARTY: Yes.

13 MR. CASTO: NNSA, DOE, NR, NRC liaison
14 team here. Actually I think -- honestly I think
15 what's been needed all along is a command center like
16 we would run, right? This is difficult to have an NRC
17 command center here with 11 people, and yet you had
18 all these other agencies that are involved. And
19 everybody's got their own command center.

20 MARTY: Yes.

21 MR. CASTO: So that I think leads to a lot
22 of the disorganization that there seems to be because
23 everybody's got their own command center. Everybody's
24 got their own.

25 And we work off of two phone lines in this

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1 conference room. And that's okay. But it's nothing
2 like we would have in the WHO (phonetic) or in an EOF
3 or something where you have interagency
4 communications, coordinations.

5 MARTY: Chuck, here's what I'm thinking.
6 And I feel like we keep getting whipsawed to the issue
7 of the moment. And right now the issue of the moment
8 is the salt in the reactor vessel. But set the clock
9 back 24 hours and there was a different issue of the
10 moment.

11 MR. CASTO: Right.

12 MARTY: And it seems to me that we need to
13 get an agreement amongst not only the NRC but the
14 Japanese government and the U.S. government on what
15 are the priorities. I will assert the priorities
16 right now ought to be restoring reliable level and
17 cooling to both the reactor cores and the spent-fuel
18 pools. Then you come down underneath those two
19 priorities and you lay out a number of strategies.
20 Right?

21 MR. CASTO: Right.

22 MARTY: And you try to attack those
23 strategies and make progress on those strategies.

24 I don't see an overall plan here.

25 MR. CASTO: You're expressing the

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1 frustration that we've expressed, Marty. It's
2 difficult for us because TEPCO doesn't really -- can't
3 articulate their strategies and their priorities very
4 well.

5 They've worked on one priority -- two
6 priorities I guess. And now the third. I mean, their
7 priorities are water in the spent-fuel pool,
8 electricity and freshwater.

9 MARTY: Yes. But they're elements of a
10 strategy, I think. And we need -- and I think Dave
11 was saying just last night, now we've figured out how
12 to get water in the core, how they're steaming off.
13 Obviously they have some strategies. We need to
14 understand in a little bit more detail what they're
15 thinking about the notion about taking water from the
16 dam, going to the condensate storage tanks and then up
17 into the reactor vessel.

18 MR. CASTO: Yes, I think what I'm trying
19 to explain is it was only until yesterday or the night
20 before last or something that we were able to get a
21 better relationship and communications to understand.

22 And that's when it opened up. We understood the
23 freshwater source. Now we can get more detail on
24 that, et cetera. Heretofore though, I don't think we
25 had the kind of relationship that got us to understand

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1 what their strategies and priorities are.

2 MARTY: Well, the more that we can get
3 them to talk about that, the more that I think that we
4 can be helpful.

5 MR. CASTO: Yes. And I think those -- the
6 first one I think this morning at 10:00 -- the more
7 face-to-face meetings that we can have with NISA and
8 TEPCO that are starting at 10:00 o'clock -- today's
9 the first day -- I think that's going to happen up
10 what are the strategies and how can we help you with
11 those strategies.

12 MARTY: Right, right. Because IMPO,
13 you're going to have somebody on the ground today at
14 5:00 o'clock ready to embed with you to try to figure
15 out how we can help. IMPO has stood up an entire
16 network back here of reactor procurement people and
17 vendors. And they're just saying tell me, tell me,
18 tell me. What do you want? And if we understood the
19 strategies, we could help them.

20 MR. CASTO: I hear your frustration,
21 Marty. And I understand. And we've been working to
22 try to get those strategies and the details of those.
23 And I don't know what to say. I think we're gaining
24 that now.

25 MARTY: Okay. But I mean, if our staff

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1 makes it a point in going into these meetings and
2 saying we're helping you on the emergent fires, but we
3 really need to understand the strategies so we can
4 help you there.

5 MR. CASTO: Yes, I think it's only --
6 today is the first day. They're going to fly over
7 spent-fuel pool 3 to characterize the spent-fuel pool.
8 It's only today that that's happening.

9 MARTY: I understand that. But I mean,
10 that's nice to do that. But I mean, I would spend the
11 energy on how do I get the water in and how do I cool.

12 MR. CASTO: Well, they're doing that.
13 They have the cement truck theory, or the cement
14 trucks moving in there. And they're pumping inside
15 the building with the cement trucks.

16 MARTY: And if that's sustainable for the
17 long term, fine.

18 MR. CASTO: Well, they know it's not.

19 MARTY: So then what's their strategy?
20 I'm not beating you up, Chuck. I'm just trying to --
21 you need to push them. Okay. So what's beyond the --

22 MR. CASTO: We have been pushing them,
23 Marty, with our cooling water system, and they went
24 down and looked at it -- seemingly enthusiastic about
25 it. But there's a ton of barriers to making that

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1 happen. That's the JSS and the FBF. And it goes back
2 to Jim's issue about antagonizing. So you have to do
3 it with aplomb.

4 MARTY: I know. I know. We have to be
5 diplomatic about it.

6 MR. CASTO: They're in that other
7 conference room up there -- the nice conference room.

8 MALE PARTICIPANT: Where's that at?

9 MR. CASTO: Right at the end of the
10 hallway. 144. Room 144.

11 You have to do with aplomb. And it has to
12 be on their terms.

13 And the same way with the equipment. They
14 turned back the French equipment -- whatever it was --
15 100 tons of French equipment.

16 There's a process that you have to go
17 through to get information or to get things moving or
18 to understand things here.

19 MARTY: Okay.

20 MR. CASTO: And so the issue today was
21 pumping system is JSS and SDF are very concerned about
22 how's that going to get to the site. Well, my
23 solution is I'm going to talk to the Admiral this
24 morning when he gets in here and say, Admiral, can you
25 talk military to military and help us move that stuff

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1 to the site. The engineers are excited about it. The
2 TEPCO engineers are excited about it. And they went
3 down there yesterday, had a big photo op, had a lot of
4 media down there. And they're excited about it. It's
5 just that you have to go through the process of making
6 sure that you satisfy everybody. Now the U.S.
7 military at first told us they could move it and now
8 they say they can't go across the Japanese with it.
9 So I've got to get the Admiral on this and say, look,
10 we need help.

11 MARTY: And in parallel, I get the sense
12 that they're also looking at installed equipment in
13 the plant and trying --

14 MR. CASTO: Yes. They're trying to get --
15 they're trying to fill the condensate storage tank and
16 get -- install the equipment. But that's a long,
17 laborious process as well.

18 MARTY: Right.

19 MR. SKEEN: And Chuck, this Dave Skeen.
20 That's my concern is if their plan -- as Marty says
21 with their long-term plan is to get plant equipment
22 restored, I don't see how they're going to do that.
23 They've (inaudible) a pump or two and found out that
24 their pumps are bad.

25 MR. CASTO: Yes. We've known that for a

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1 week and a half, Dave --

2 (BEEP.)

3 MR. CASTO: I don't know what that beep
4 is. Somebody must be calling in or something.

5 But we've known that all along that power
6 is helpful. You always want power. And power got
7 them -- apparently got them to fill Unit 2's pool
8 which is good news. And you always want power. It
9 can never be bad to have power. But we always knew
10 that for Unit 3 and Unit 1, power is going to be
11 dubious whether that's really going to help. You've
12 got to go hand over hand over every component. Plus
13 you've got high dose rates.

14 MR. SKEEN: Right. So that's my concern
15 on 1 and 3. If I get power back then, then what? I
16 mean, if it could take me a lot of time to try to
17 restore some of this equipment, do I have to bring in
18 new pumps, do I have to -- that's going to go on for a
19 long time. So what do I do in the meantime until I
20 get my permanent plant equipment back?

21 MR. CASTO: Right. And then we've talked
22 with them extensively, Dave, telling them or
23 suggesting to them -- we try not to tell them anything
24 -- suggesting to them you're going to need to use
25 temporary equipment. We told them that time and time

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1 again that you're going to have to bring in equipment
2 and connect it in most likely.

3 We told them on the Unit 3 spent-fuel
4 pool, they want to use installed equipment to get to
5 the Unit 3 spent-fuel pool. We believe they're going
6 to move radiation around. And certainly if you try to
7 put any kind of heat exchanger -- I mean, that was the
8 issue at TMI. We told them again that last night that
9 they're probably going to need some kind of installed
10 -- temporary installed equipment. But it's difficult
11 to get that across.

12 So hopefully with the information we gave
13 them last night -- we gave them five large notebooks
14 of severe accident damage material and we dog-eared
15 the appropriate pages for them -- they're going to
16 translate that, they're going to study it all day
17 today, and meet with us at 8:00 o'clock tonight.
18 Meanwhile, we're having face-to-face meetings with
19 NISA and TEPCO. And I would like to get them the
20 analysis that was done on salt.

21 MR. SKEEN: Yes, we'll get that for you.
22 I'll have the guys pull that together and send it over
23 to Tony.

24 MR. CASTO: They just handed me a matrix.
25 We're trying to get clarity around basic reactor and

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1 containment and spent-fuel pool parameters. We talked
2 about data, and Marty and I and Jim talked about it
3 the other day about chasing our tail on data. But
4 we're trying to get the most reliable data. And we
5 just made up a matrix of the most reliable data on
6 flow rates -- reactor vessel flow rates, water level,
7 reactor pressure, suppression pool pressure,
8 containment venting, spent-fuel pool level, make-up
9 sources. So we're trying to get clarity on basic
10 parameters that come right from TEPCO or NISA. NISA's
11 data comes right from TEPCO.

12 MALE PARTICIPANT: Well, Chuck, what
13 comments do they have in their level of pressure
14 temperature data? How do they know that's

15 MR. CASTO: No, they don't have
16 confidence. That goes back to the conversation we had
17 with them on tell us what parameters you have doubt on
18 and you help to determine from alternate means of that
19 data. And we'll work to find ways to find that data
20 from alternate means. They're to give you ideas on
21 how you could ascertain a certain parameter, not using
22 installed plant equipment.

23 MALE PARTICIPANT: Right.

24 MR. CASTO: And a lot of this stuff -- you
25 also have the translational issues that you have to

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1 deal with too. But that sometimes can be -- most of
2 the times can be overcome.

3 But we've told them that if you just tell
4 us what information you need -- if you have doubt on a
5 reactor vessel pressure for instance, let us know and
6 we'll work with the scientists or engineers to figure
7 out how can we tell that from -- if it even means hey,
8 there's a gauge on the research pump suction that will
9 tell you without electricity what the reactor pressure
10 is then we can work with them. How do I go get that
11 information? Whatever it is that we have to do to
12 validate the data, we'll help you do it.

13 MALE PARTICIPANT: Right.

14 MR. CASTO: And --

15 MARTY: But getting back to the data again
16 -- and I keep wanting to get away from the data and
17 say what we need to do is develop a matrix.

18 MR. CASTO: Yes. The only problem I have
19 with -- I agree with you, Marty, on strategies. I got
20 that.

21 MARTY: We develop a matrix and say okay,
22 reactor vessel level. And you have six bullets under
23 the matrix and you have that spell it out. Tell us
24 the data. Just tell me how you're going to get water
25 in the core. And then we'll figure out what

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1 instrumentation we need and what pumps we need, what
2 valves we need.

3 But I mean, if we can get them thinking at
4 that higher level of okay, so vessel level, vessel
5 cooling -- you just sort of lay out -- here are our
6 objectives or goals --

7 MR. CASTO: Yes, Marty, we'll get that
8 with them. We're starting close dialogues with them.

9 And we'll get that with them. And I think from a big
10 picture, it's getting the original water line, getting
11 either the cement trucks or our system installed --

12 MARTY: If we could get agreement with
13 them about these are the strategies, then I think we
14 could start working on something a little bit more
15 tangible. And then you could connect the data needs.

16 You had said at the very first day, Chuck,
17 you need the data to know whether the strategies are
18 successful. And I haven't forgotten what you told me.

19 MR. CASTO: Right. Right.

20 You need both, but you need a strategy. I
21 agree. You've got to have a strategy. And then
22 you've got to know whether the strategy is successful.

23 MARTY: Right.

24 MR. CASTO: And then you have to have an
25 alternate -- a second plan if it's not.

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MARTY: Absolutely.

MR. CASTO: And a plan to back out. I mean, but you just don't see that systematic approach, Marty.

[REDACTED]

(b)(5)

MARTY: Okay. Thank you.

MR. CASTO: So this is the first case study on --

[REDACTED]

(b)(5)

Now some of those were effective. Some of them were not -- mostly not.

[REDACTED]

(b)(5)

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1 And then now, we just need to continue to
2 try to give them help on strategies.

3 MARTY: Right.

4 MR. CASTO: And I agree with you, Marty.
5 I mean, we couldn't be more in agreement.

6 MARTY: Okay. Hey, switching subjects on
7 you. I talked to Bill Webster this evening. And I
8 know Al is going to arrive at 5:00 o'clock your time
9 tonight. And what IMPO would like -- and I think
10 they're right -- is for you to do what you can as you
11 -- to introduce Al, to bring them into your fold and
12 make sure he gets the connections he needs --

13 MR. CASTO: Absolutely.

14 MARTY: -- that could be effective.

15 MR. CASTO: Yes. Absolutely.

16 MARTY: You've worked with Al before and I
17 know you've got a good relationship.

18 MR. CASTO: We have a good relationship.
19 I worked with him at San Onofre. So I know him well.

20 MARTY: And then Bill recognizes there are
21 two types of requests. There's the one -- the fishing
22 trips -- the tell-me-everything-you-can-do about
23 robotics. And then there's the more specific -- I
24 need a robot to do X.

25 MR. CASTO: Yes.

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1 MARTY: And they're --

2 MR. CASTO: They get very nervous if --
3 like the French, their approach of hey, we're loaded
4 on the airplane ready to come and help you, that's
5 never going to be accepted in this culture.

6 MARTY: Right, right. And I think he
7 recognizes there's two types of requests. And before
8 they load it on the airplane, they want to make sure
9 that it would be accepted. You're right.

10 MR. CASTO: Right.

11 MARTY: But they've stood up. They've
12 staffed up Atlanta. They've got a structure in place.
13 They're bringing the vendors in. So it's almost as
14 if whatever you need, you can have.

15 MR. CASTO: We'll use that. And Al is
16 going to be an important asset for us. There's not
17 doubt about that.

18 MALE PARTICIPANT: (inaudible) war room is
19 needed because he mentioned these remote -- these
20 robotics. I was just reading the (inaudible) DOE
21 status, and it shows that (inaudible) with
22 (inaudible). It goes (inaudible) with robotic
23 capabilities. It looked like it was tuned to a
24 request. And they have fly overs, they've got other
25 kinds of robotic things.

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1 MR. CASTO: Yes, we've talked to -- I had
2 DOE talk to Pete Lyons (phonetic) last night or this
3 morning, whenever they did it and said hey, here's
4 what they requested -- large area monitoring
5 capability -- the whole list of requests -- and sent
6 that to Pete Lyons and said (inaudible) and I think at
7 least DOE if not IMPO. I think we sent to IMPO too.

8 MALE PARTICIPANT: DOE responded.

9 MR. CASTO: Yes.

10 MALE PARTICIPANT: I assume you have that.

11 MR. CASTO: And we want to carry that to
12 the 8:00 o'clock meeting tonight and hand it to them.

13 MALE PARTICIPANT: You have the DOE
14 response?

15 MR. CASTO: I'll look for it. I'm sure
16 that Damien will get it for me if I don't have it, or
17 I'll call back for it. We won't go to the meeting
18 without it.

19 MALE PARTICIPANT: I've got it. Seek and
20 ye shall receive it.

21 MR. CASTO: Yes. Just pump it to me and
22 then I'll have it.

23 MALE PARTICIPANT: Yes.

24 MR. CASTO: So good. I think we have an
25 intergovernmental -- one of those ISA briefings here

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1 at 10:30.

2 MALE PARTICIPANT: I just sent it.

3 MR. CASTO: Okay. I'll have to go to that
4 intergovernmental briefing here in just a few minutes.
5 I don't know what time it is.

6 MALE PARTICIPANT: Twenty-two after.

7 MR. CASTO: Okay. I've got eight minutes.
8 My phones are on the charger in the other
9 room.

10 But the last two days were very positive.

11 I just wanted to send you back the sense that the
12 last two days were -- day and a half were very
13 positive in terms of working relationship. And I
14 think it's wide open now. Now we can get into a
15 battle rhythm and start working the strategies like
16 Marty suggests and start working information flow in
17 parallel.

18 MALE PARTICIPANT: Yes.

19 MR. CASTO: So I hope that we're making
20 progress.

21 MARTY: Good, good. It does sound like
22 you're -- it has. It has been productive. So we just
23 need to keep it up.

24 MR. CASTO: And of course, there's just a
25 lot of demands. I can't tell you all the demands of

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1 time and people and information and it comes from
2 everywhere. It's incredible.

3 MALE PARTICIPANT: You're going to have
4 some people show up probably tomorrow morning from
5 Europe?

6 MR. CASTO: Yes.

7 MALE PARTICIPANT: And then later in the
8 week. Do you have a plan for who you're going to
9 release?

10 MR. CASTO: Yes. I think we're releasing
11 three -- is it tomorrow? No. See what's tomorrow.
12 Thursday. We're releasing three Friday. And then I
13 think everybody else is out Saturday --

14 MALE PARTICIPANT: Okay.

15 MR. CASTO: -- I think is the plan.

16 MALE PARTICIPANT: That'll give them a
17 couple days overlap then?

18 MR. CASTO: Well, yes, at least a day. I
19 think we targeted a day overlap.

20 MALE PARTICIPANT: Okay.

21 MR. CASTO: But first, because we're just
22 setting up these meetings, we want to make sure we get
23 these meetings set up and solid and then have two
24 people -- you know what I mean -- it may be before
25 break on these meetings because they're just getting

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1 stood up.

2 MR. CASTO: Yes. They're all the
3 relationship requirements out there. You can't give
4 them a swinging door at different faces everyday.

5 MR. CASTO: Well, we're going to do that
6 probably. But it's not ideal, but it is what it is.

7 MALE PARTICIPANT: Yes.

8 MR. CASTO: Well, I appreciate the
9 support. We're going to work on strategies.

10 And the other issue is the briefing
11 tomorrow with the Admiral. And that's what's kind of
12 refocused us on data. So --

13 MARTY: We should talk later to make sure
14 that we're supporting you for that meeting because I
15 know that's going to be stressful if you don't have
16 what you need.

17 MR. CASTO: Yes. If we don't have the
18 data and the data sources, let me tell you, he ain't
19 going to be a happy camper to be honest with you.

20 MARTY: We need to try to avoid that. So
21 --

22 MR. CASTO: Yes. So I know, Marty, you
23 and I both agree on this data thing and that chasing
24 that thing is -- I mean, we both -- I mean, I'm in
25 lock step with you on that. But when you've got the

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1 commander of the Seventh Fleet wants to talk to you
2 about it, it's hard not to have something in your
3 hand.

4 MARTY: Yes.

5 MR. CASTO: And I know you appreciate
6 that.

7 MARTY: Yes, yes.

8 MR. CASTO: So I just need to be prepared
9 for that. I'm not diverting attention or whipsawing
10 the organization -- or I guess I am but -- on the data
11 thing. But I think we can do both. I think we can
12 get better data and work with them on a strategy at
13 the same time.

14 MARTY: Good enough. And we'll send you
15 the stuff that we have on exit strategies which is not
16 a priority.

17 MR. CASTO: Okay. Hey, thanks for all the
18 support.

19 And the big support -- the number one
20 thing is to get those calculations either to Tony so
21 we can get them to TEPCO.

22 MALE PARTICIPANT: (inaudible) and we're
23 going to get the calculations.

24 MALE PARTICIPANT: They're working on it.
25 They'll do the right thing.

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1 MR. CASTO: Thank you, all. It's really
2 great having that level of support that you guys
3 provided. It's nice to be able to run home every once
4 in a while and get somebody that cares about you.
5 We've got a lot of other people shooting at us.

6 MARTY: Yes. It's nice to get a hug every
7 now and again, huh?

8 MR. CASTO: There you go. It's nice to
9 have some friendly faces for a change.

10 So hey, I appreciate it.

11 MARTY: All right. We'll talk to you
12 later.

13 MR. CASTO: Talk to you soon.

14 (Whereupon, at 5:42:17, the conference
15 call was concluded.)

16 (ELAPSED TIME: 45 minutes, 36 seconds.)
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