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2 NUCLEAR REGULATORY COMMISSION

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4 JAPAN'S FUKUSHIMA DAIICHI ET AUDIO FILE

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1 (CONFERENCE CALL INITIATED)

2 HEADQUARTERS OPERATIONS OFFICER: This is
3 Headquarters Ops Officer, Chuck Casto is coming up on
4 the bridge.

5 MALE PARTICIPANT: Hey Chuck?

6 MR. CASTO: Good morning.

7 MALE PARTICIPANT: You got the whole team
8 collected here now. We were just going over turnover
9 and making sure that we're aligned on the actions we
10 need to take this shift and going forward, so it's a
11 good time for your call.

12 CHUCK CASTO: Could we listen in?

13 MALE PARTICIPANT: Sure.

14 FEMALE PARTICIPANT: I mean we're just
15 kind of repeating information that we heard from you,
16 that you talked with Roy about. There was a question
17 about how far out the barge is with the fresh water.
18 Do you have any ETA on that to the site?

19 MR. CASTO: Later tomorrow I --

20 MALE PARTICIPANT: Well, I think it's
21 later tomorrow, they have weather problems. You know,
22 of course, the barge, I guess that's like a river
23 barge or something out in the open ocean.

24 MALE PARTICIPANT: It's a harbor barge.

25 MR. CASTO: A harbor barge, and it's out

1 in the open ocean, so they're being very careful. So
2 what I've heard, I've met Bill Cook and the colonel in
3 the hotel this morning and they said they had weather
4 delays. And I think it's a 22 hour trip.
5 MALE PARTICIPANT: It's a 20 or 30 hour
6 trip depending on the seas and how fast they can haul.
7 FEMALE PARTICIPANT: Okay.
8 MALE PARTICIPANT: Hey, Chuck, Jennifer's
9 got the lease for the watch. She was just going over
10 the list, and the last item she touched on was
11 J-Village, and noting your plans to go down there
12 tomorrow with John Moninger (phonetic).
13 MR. CASTO: Right.
14 MALE PARTICIPANT: And check it out. And,
15 you know, we've been trying to get a little background
16 from here on what's being done there and it's really
17 hard. We understand what it was before the event, and
18 we're getting a glimpse of what it is today. Now, but
19 we've recognized in looking at the map, how close in
20 that is to the site.
21 And if we think about embedding somebody
22 in there, Jennifer had a good suggestion that we might
23 need some help, (inaudible) support for the team if in
24 fact we decide we're going to locate people that close
25 in.

1 MR. CASTO: Yes.

2 MALE PARTICIPANT: Well, if we decide to
3 permanently (inaudible), you guys are just going for
4 visit, right?

5 MR. CASTO: Yes, we're just going, we're
6 going recon.

7 MALE PARTICIPANT: Right, I understand,
8 you're going down to see what's happening. But if it
9 turns out that that is the happening place, and you
10 need to embed somebody there, you know, we're just a
11 little concerned about it's proximity to the site.

12 MR. CASTO: Right. Man, that makes a lot
13 of sense.

14 MALE PARTICIPANT: That's the pets too,
15 from what we heard.

16 (Crosstalking)

17 MALE PARTICIPANT: You know, before the
18 event, it's built as sort of like a country club.
19 With, don't give us that crap, that there's tents and
20 outhouses, I know what's down there. It sounds like
21 an 18-hole golf course.

22 MR. CASTO: And that was the chairman's
23 office talking there.

24 MALE PARTICIPANT: Yes, yes, it's an
25 18-hole golf course, and a swimming pool, and all

1 sorts of things going on down there.

2 MR. CASTO: They said that about Saddam's

3 palace too. You've got these guys here that lived in

4 the greens John, they'll tell you a different story.

5 JOHN: Yes. All right, we've got grass

6 Jennifer.

7 MS. EWELL: I know you've got to figure

8 out, I keep having pictures of a nice 18-hole golf

9 course with nobody on it, so it'll take me a little

10 bit to get back to what I was (inaudible). Okay. I

11 don't know if you guys are interested, but I guess,

12 headquarters, we're not going to be releasing a RIST

13 (phonetic), it's a regulatory, it's a summary Dave?

14 Okay. About, the purpose of the RIST

15 originally was to be asking for licensees to do

16 external monitoring, and then provide that data to

17 NRC, so that we could feed it to the rest of the

18 federal families.

19 And at this point, NEI has talked to the

20 licensees, and they are voluntarily doing this and

21 they're going to provide that information to NEI, and

22 then give it to the NRC and then we're going to be

23 forwarding it on to EPA and other organizations.

24 There is some information that there is

25 some iodine detected in Pennsylvania that, according

1 to their laws this is, we're uncertain about this, but
2 according to their laws they may have to make that
3 information public, if there's any heightened level at
4 all, and it is a little bit higher, not anything that
5 would be the least bit health significant.
6 So they're seeing if they're going to be
7 doing any kind of release of that information. Eliot
8 Brenner here, is working with the right people to
9 develop a press release that tries to put the levels
10 in some context and what NRC is doing about it.
11 MALE PARTICIPANT: Rich Feria (phonetic)
12 reported to me during turnover that EPA had already
13 put out a press release.
14 MS. EWELL: About Pennsylvania?
15 MALE PARTICIPANT: Pennsylvania and
16 Maryland, detecting iodine-131.
17 MS. EWELL: Okay, all right.
18 MALE PARTICIPANT: We'll look into it, but
19 --
20 MS. EWELL: Yes, if you could feed those
21 to Eliot Brenner, just email.
22 MALE PARTICIPANT: I didn't see the press
23 release, but we got a call from, on the previous shift
24 from the Maryland EOC regarding slightly elevated
25 levels. They didn't have the, they were not

1 knowledgeable people we were talking to.

2 They were giving us units that can't be

3 true. But apparently, they're seeing something. And

4 they're planning on going public with that, so we

5 informed the residents, the previous shift, we sent

6 them an email that they need to be prepared for

7 questions. Very low levels.

8 MS. EWELL: Okay, there was that issue

9 about Oyster Creek having some heightened level too

10 that was off-scale here, did you follow that up?

11 MALE PARTICIPANT: No.

12 MS. EWELL: Is somebody following it up?

13 MALE PARTICIPANT: Yes, the Region I

14 inspectors, they-re--

15 MS. EWELL: Okay, all right.

16 MALE PARTICIPANT: Was our understanding,

17 do you want me to get to Region I and ask someone

18 (inaudible)?

19 MS. EWELL: If they could eventually get

20 it, so, you know, this was --

21 MALE PARTICIPANT: I was hoping day shift

22 might have done that, but (inaudible).

23 MS. EWELL: Okay, okay. I guess there was

24 a deputies call here in the U.S., Roy Zimmerman

25 participated in it and the question really was to get

an overall (inaudible) view of how conditions are either getting worse or getting better, and the conclusion that again, the consensus that was formed was that things are, you take two steps forward, one step back, very dynamic. It can change rapidly and everybody is still uncertain about where it's eventually leading.

MR. CASTO: This is Chuck in Japan. Marty, I think that's why that milestone chart's important.

MR. VIRGILIO: Yes.

MR. CASTO: That we talked about.

MR. VIRGILIO: We'll get to that too. But, I mean we've got bigger issues that we're going to get into discussing. As you might know, the

(b)(5)

And coming out of that, there's sort of a list of agreements or summary of conclusion. And what I'm perceiving is that our activities here in

(b)(5)

What we're getting for example, is

1 requests from other agencies to provide certain types
2 of support. (b)(5)
3 (b)(5)
4
5 For example, this (inaudible) motion of
6 trip wires, (b)(5)
7 That's very clear from a reading of the summary of the
8 March 23rd meeting. Yet we're getting calls, and
9 (b)(5)
10
11
12 MR. CASTO:
13
14 (b)(5)
15
16 MR. VIRGILIO: Right, but we're getting,
17 (b)(5)
18
19
20
21
22
23
24 for this.
25 MALE PARTICIPANT: KI was another example.

1 MR. VIRGILIO: KI is another example of,
2 you know, here, they take (inaudible), it's agreed to
3 (b)(5) [redacted]
4
5
6
7
8 deputy calls. So we've got to get our arms around
9 what agreements is the Chairman signing up to, and how
10 do we implement them?
11 MALE PARTICIPANT: And just so you're
12 aware Marty, what the Liaison Team, I got that during
13 the turnover with Rich Feria, and so what we've
14 started to do is to pull all of those summaries of
15 those meetings, identifying any issues related to the
16 decisions that would affect what's going on in Japan.
17 And then we need to formulate, however
18 we're going to present it to, but these are the
19 decisions that are coming out that have been made, and
20 try to diagram it out as far as like, (b)(5) [redacted]
21 (b)(5) [redacted]
22 know, so we can get a snapshot of who's doing what.
23 And so that when questions come in, we can feed it to
24 that organization, but we want to get a point of
25 contact beforehand.

1 MR. VIRGILIO: What I suggest you look at
2 is, Chuck, you're last several deputies' meetings
3 summaries.
4 MALE PARTICIPANT: The Crisis Management
5 Team meeting notes?
6 MR. VIRGILIO: These are the notes that
7 come out of your 8 o'clock meeting, Chuck.
8 MR. CASTO: Right.
9 MR. VIRGILIO: I think they're very
10 helpful because you can see where there's overlap on
11 some of the issues that are being discussed amongst
12 the deputies at 8 o'clock in the morning, and the
13 issues you're discussing on the site at 8 o'clock at
14 night. Do you follow me?
15 MR. CASTO: Yes, I get you.
16 MR. VIRGILIO: And it might be a feedback
17 loop, because I understand we're going to set up a
18 call with you and the Chairman each morning.
19 MR. CASTO: Right.
20 MR. VIRGILIO: And on that call, I think
21 it would be an opportunity for you to say, hey, at the
22 8 o'clock meeting this issue came up. You know,
23 people have a perception that NRC is supposed to
24 provide this thing, but if we look at the ultimate
25 responsibilities as outlined by the deputies' meeting,

1 it really belongs to (b)(5) [redacted]
2 somebody else.
3 MR. CASTO: I understand.
4 MALE PARTICIPANT: And I thought we had
5 been handing some of, a lot of those things off.
6 MR. VIRGILIO: Yes, yes, I think we have.
7 But I tell you when I read these meeting summaries,
8 and I listen to what we're being asked to provide to
9 our various stakeholders, there's a huge disconnect.
10 I mean for me, it is abundantly clear that
11 the Reactor Safety Team and the NRC have got the lead
12 for speaking to you and the Japanese about what our
13 recommendations are.
14 But beyond the Reactor Safety Team, and
15 those things associated with the plants right now and
16 the spent fuel pool, I think there is a number of
17 difference of who've got a lead for different
18 activities, and I'm not sure it's very clear to us
19 right now as to who's in charge of what.
20 MR. CASTO: Yes, we agree, we don't want
21 to do baby bottles and bottled water.
22 MR. VIRGILIO: Right, right. But yet, I'm
23 afraid we might get pulled into that being the person
24 there. But if you are, I think you just need to make
25 sure that we help you hand it off to the right agency

1 that's in charge.

2 MR. CASTO: We've had a lot of help I

3 think from the Embassy on that and trying to hand it

4 (b)(5)

5

6 people that, you know, shielding, all that stuff off

7 to DOE.

8 MALE PARTICIPANT: There was a list of

9 about 59 of them that we got last night, that they

10 were questioning support on, and I think through the

11 broader government response center up here, they were

12 looking for that list to see which one's better, see

13 what they, (b)(5) et cetera.

14 MR. VIRGILIO: That list goes down to the

15 NR Agency Task Force in the Jefferson Room.

16 MR. CASTO: Right.

17 MALE PARTICIPANT: And they parse it out.

18 And my feeling would be whatever, you know, they want

19 to shut down the ISA, or the interagency task force

20 here in the Embassy down to the (inaudible), but my

21 (b)(5)

22

23 them.

24 MR. VIRGILIO: Yes, that would make good

25 sense, but then --

1 MR. CASTO: And let them be the brokers of
2 all the requests.
3 MR. VIRGILIO: Right, I would agree. Then
4 we just need to make sure that all these other people
5 that have participated in deputies' calls with the
6 Chairman are on board with that. But I just want to
7 make, it's an awareness item for right now, Jake's got
8 it and we'll continue to work it through this shift.
9 MR. CASTO: We're trying not to let those
10 requests, I don't think, we're not trying to distract
11 us, we've handed them off, and know that we don't want
12 to be in the bottled water business.
13 MR. VIRGILIO: Well, I'm afraid that you
14 may be a lot more successful than we are here, but I
15 get the sense that we're getting drawn into every
16 issue as if we're in charge and we're responsible, and
17 --
18 MR. CASTO: Yes, you can't do that, we're
19 not big enough for that.
20 MR. VIRGILIO: No.
21 MS. EWELL: Well, I think --
22 MR. CASTO: I mean I think before it came
23 to this Cabinet level meeting, we were probably taking
24 a lot more, or like we were trying to run down the
25 robots, this, that, whatever. But recently a lot of

1 issues we've just passed off and we go to the meeting
2 (b)(5) [redacted] report out on robots. So I think it
3 probably could be more clear. Yes, we're typically
4 like three or four out of 23 or 24 that are going to
5 the Cabinet meetings on the U.S. side.
6 MR. VIRGILIO: Oh, good. Well, we just
7 need to make sure that you're aware of what agreements
8 have been struck back here.
9 MR. CASTO: The DTM goes to the meetings,
10 and I guess every agency that's in this building
11 that's associated with this event goes to that
12 meeting.
13 MR. VIRGILIO: And I can't tell whether
14 they've been represented on all of these calls. I
15 know a couple of them that I've sat in on with the
16 chairman, you've had actually had the Ambassador Roos
17 on the call.
18 But I'm looking at this one, yes, and the
19 one I'm looking at now from the 23rd, he was on the
20 call. And he also gets the summary that I'm looking
21 at. So that's another mechanism to help insure we
22 stay in alignment. Okay, Jennifer, back to you.
23 MS. EWELL: Yes, I guess I want to say
24 that there's one issue I think that is especially
25 confused right now and that is the criteria for the

1 trip wires. And we've got a lot of different people
2 going off in different directions.
3 We're not even sure of the short-term
4 than, (b)(5) [redacted] and
5 it's, I mean so that's one area I think that, and I
6 think you guys in Japan there are getting a lot of
7 requests from the admirals, is that true? On
8 criteria?
9 MR. CASTO: I don't think so. We haven't
10 really been, I mean we had Jack Foster just listening
11 (b)(5) [redacted]
12
13 and some of the HHS people, Jana, I can't remember her
14 last name, and HHS, they've really been running that
15 show, not us. Jack stayed plugged in, but they've
16 been running it.
17 MS. EWELL: Okay, thanks --
18 MALE PARTICIPANT: We were just trying to
19 keep them from getting too far off of the tags*, and I
20 think when it got to the point where it got too hard
21 inside this building, and started to have potential
22 implications for national policy, we said, that one
23 needs to go back home.
24 MR. CASTO: So, we've basically stepped
25 away from all that.

1 MS. EWELL: Okay, I think what happened
2 maybe is that there wasn't that clear understanding
3 back here. And I think we feel like we've been asked
4 by several different organizations what the criteria
5 (b)(5) [redacted]
6 staff.
7 MR. CASTO: Yes, we really haven't been
8 getting involved in it at all.
9 MS. EWELL: Okay, okay.
10 MR. CASTO: Now maybe we didn't
11 communicate that to you guys.
12 MS. EWELL: No, I doubt that's it. If
13 they think we did what we, I mean we had the Liaison
14 Team get probably ten emails a minute, as far as
15 different organizations peppering up with information
16 and questions. And there isn't a clear understanding
17 of who's doing what on this side of the ocean.
18 All right, so we're going to, like Marty
19 said, we're going to be taking that action of looking
20 through those deputies, or the Chairman meeting notes,
21 and then comparing them to our own action items and
22 figure out where we might've made a mistake in taking
23 on more of a lead when we don't really have it.
24 Okay. Just for your information, I don't
25 know if you've heard this, but (b)(5) [redacted]

1 indicating that it takes about, that based on their
2 (b)(5)
3
4 looking for a certain amount of I'd say leading
5 indicator when they need to take action before it's
6 too late, because of the time involved in getting the
7 people out.
8 MR. CASTO: So they want a ten-day notice
9 of the next hydrogen explosion?
10 MS. EWELL: Yes, well, you can go tell the
11 Admiral that that's not the appropriate question to
12 ask, but on this side, we are again, going to be
13 (b)(5)
14 better idea, or trying to insure that in fact, our
15 assessment of reactors and spent fuel conditions, are
16 uniformly understood in the (inaudible) federal
17 family.
18 MALE PARTICIPANT: You know, we're on this
19 thing, we have success there with all that salt issue.
20 You know, the build-off over time and pushing the
21 issue, so that was an evolving issue that people
22 engaged (inaudible), the appropriate time frame.
23 MS. EWELL: Okay. Let me just go to the
24 next thing. Okay, the next really item that I'll
25 (inaudible) you to, so I guess do you guys over in

1 Japan had requested that we develop more of an action
2 plan on the SAMG recommendation?
3 MR. VIRGILIO: Yes, this is what, Chuck
4 you and I had talked about earlier, and we'll just
5 make sure we've got the turnover right. Because we've
6 sat down with Bill Ruland and sort of laid out where
7 we wanted to be in terms of, I think it's maybe a
8 disassembly of what we developed last night,
9 reformatting and getting it back out to you to verify
10 what we have in terms of our initial conditions.
11 And where we think that the Japanese TEPCO
12 are in fact, listening to us and taking actions and
13 where they're not, and sort of converting what we had
14 in that thought piece into an actual action plan.
15 MR. CASTO: Yes, and the TEPCO Team just
16 came back, we haven't debriefed with them yet, but
17 we're ready to start and I really, if I've got four
18 hours, five hours.
19 BRIAN: Yes, Chuck this is Brian Holing
20 (phonetic), and we'll have it reformatted to you
21 within an hour or so, when I'm out of this meeting.
22 We're either working it out there, and it's got
23 recommendations down one column, and it's spaced for
24 you to have notes and concurrent clock on it kind of.
25 MR. CASTO: Okay.

1 BRIAN: We think we have what you'll need,
2 but we'll get it to you in an hour and if it needs
3 more editing, let us know.
4 MR. CASTO: Okay, thanks Brian. I think
5 for us, as I said the TEPCO Team just came back.
6 We're preparing here in about 15 minutes to go to MOD
7 for the working group. The Cabinet Meeting Working
8 Group will meet here in 30 minutes.
9 We're going to try to get a perspective of
10 what their initial reaction from that report. And the
11 three of us have just spent the last hour or two with
12 (b)(5) [redacted] They're ready to
13 move forward on a series of questions that they have
14 for the Japanese.
15 We asked them to hold off until, give us
16 some time, you know, the number one thing is getting
17 the reactors stabilized. So we asked them to give us
18 some time to do dialogue with the Japanese on the
19 report, and hold off on their page of questions until
20 we get that dealt with, so we don't distract the
21 Japanese.
22 But I think they're pretty ready to move
23 (b)(5) [redacted]
24
25 needs to go to the Cabinet Meeting tonight, he'll go.

1 And I've got to get him an answer on that shortly. I
2 know what I think the answer is, but I need to find
3 out for certain based on what the TEPCO team says.
4 BRIAN: Hey Chuck, Brian Holing again,
5 since you're leaving in 15 minutes, I just want to
6 make sure that somebody from your team there, about an
7 hour ago we emailed out to you five answers to five
8 questions.
9 MR. CASTO: I saw those.
10 BRIAN: Three of them on hydrogen, and
11 then feedback on their consortium cooling plants.
12 MR. CASTO: Yes. You know, Brian if that
13 report, if those modifications have been run through
14 (b)(5) the others that worked on that report.
15 BRIAN: Yes. You mean these Q and As, the
16 answers?
17 MR. CASTO: If they altered the
18 recommended actions in their report, yes.
19 BRIAN: Yes, we have a call with them on
20 (inaudible) here again, but it's my understanding on
21 day shift that there weren't many modifications of the
22 recommendations in that report, but we've been talking
23 with (b)(5) all along.
24 (b)(5)
25

1 MR. CASTO: No, (b)(5) [redacted]

2 MALE PARTICIPANT: Yes, they've had them.

3 MR. CASTO: Because one of the things that

4 would help to be certain, because I get this question

5 (b)(5) [redacted]

6

7 MALE PARTICIPANT: Concurred on what?

8 MR. CASTO: We concurred on the last

9 version, but we don't know if we concurred on this

10 version.

11 MALE PARTICIPANT: You changed that up,

12 you don't know if we agree with that.

13 MALE PARTICIPANT: Yes, thanks. Dave's

14 here from (b)(5) [redacted] and we show it to him every

15 mid-shift, (inaudible) did review, I'll note though

16 that there is configuration control issues most

17 likely, because I know the RFT staff does a lot of

18 editing with real-time, and other eyes look at it and

19 we get a better idea, but the configuration control is

20 a challenge.

21 MALE PARTICIPANT: Yes, that's right,

22 thanks Dave, that's right.

23 BRIAN: Okay, we have, at least I see in

24 there now Chuck, a better standard email list that

25 goes out, so we'll make sure we get it out to

1 everybody.

2 MR. CASTO: Thank you, Brian.

3 MS. EWELL: All right, here's another

4 quick question and that is, it appears you have a call

5 Chuck, with a chairman at 6:30 in the morning our

6 time?

7 MR. CASTO: Yes.

8 MS. EWELL: Okay, so is he aware of that?

9 MR. CASTO: He asked for it, I didn't.

10 MS. EWELL: Okay.

11 MALE PARTICIPANT: Chuck, what --

12 MR. CASTO: 6:30 in the morning, it's

13 6:30, wait a minute, let me think about this, it's.

14 MALE PARTICIPANT: (Inaudible) say 0730.

15 MR. CASTO: It's 6:30 p.m.

16 MALE PARTICIPANT: Your time?

17 MR. CASTO: Your time.

18 MS. EWELL: Oh,

19 well, that's a good thing we know about that, because,

20 all right.

21 MALE PARTICIPANT: So 7:30 in the morning

22 your time, Chuck?

23 MR. CASTO: Yes.

24 MALE PARTICIPANT: Okay.

25 MALE PARTICIPANT: What we're going to

1 want to do is set that up through the OP Center.

2 MR. CASTO: Okay.

3 MALE PARTICIPANT: So that our, at least

4 our Executive Team Leader can be on the call with you.

5 MR. CASTO: Okay. And that's probably in

6 middle of your turnover?

7 MS. EWELL: No, no. 3:00 to 11:00 we'll

8 have it.

9 MR. CASTO: What was that?

10 MS. EWELL: 3:00 to 11:00

11 MR. CASTO: Oh, okay, 3:00 to 11:00 will

12 have that call, so.

13 MS. EWELL: Smack in the middle of --

14 MR. CASTO: Yes, Eliot, you know, we have

15 the cabinet meeting and we get done with it at 10/11

16 o'clock at night. And then that gives us some time to

17 put our notes together for tomorrow morning, and for

18 the Chairman at 7:30.

19 And then out of that 7:30 meeting, we roll

20 into our morning team meeting at 8 o'clock. So it

21 fits right in right there as part of the battle

22 rhythm.

23 MALE PARTICIPANT: I'm confused now, is

24 the call in the morning or at night?

25 MS. EWELL: No, it's our time, Eastern

1 Standard Time, it's 6:30 p.m.

2 MR. CASTO: Correct. And it's 7:30 here,

3 a.m.

4 MS. EWELL: Yes.

5 MR. CASTO: That helps inform our day.

6 MS. EWELL: I got you.

7 MR. VIRGILIO: All right, and so we'll be

8 on the call with you to try to make sure we're all on

9 the same page.

10 MR. CASTO: Yes, and I don't know how

11 you're going to kick me under the table from that far

12 away, but we can figure that out.

13 MR. VIRGILIO: Well, we'll figure a secret

14 high sign.

15 MR. CASTO: Okay, you'll give me a code

16 won't you.

17 MR. VIRGILIO: You'll hear me sneeze in

18 the background, okay?

19 MR. CASTO: Yes, okay.

20 MS. EWELL: Okay, that's all we really

21 have unless Brian's got something?

22 BRIAN: You know, it's really a PMC

23 (phonetic) item, but I would call and make sure this

24 room, you know, there's a lot of blog, somebody on PMT

25 just asked me a blog on physicsforum.com that talked

1 about criticality on one of the units, looking at
2 Quality 37, 38. I just wanted to.
3 MALE PARTICIPANT: Out here on the
4 website, there's a lot of information going along and
5 still questions about where that turbine building
6 water came from and that (inaudible), so Chuck we
7 wanted you to be aware of that.
8 MR. CASTO: Yes, you guys probably saw
9 that news media article about the 13 neutron beams?
10 MALE PARTICIPANT: Yes. I chewed and
11 fisted that. That's coming through some people that
12 have seen it, I haven't.
13 MS. EWELL: What the heck does chlorine
14 have to do with criticality?
15 MALE PARTICIPANT: Well, it's chlorine-38,
16 we'll have to talk about it more. Chlorine-38,
17 neutron absorber coming, so it's some sample that came
18 out of the water in the turbine building, people are
19 analyzing it online and saying that has to come from a
20 criticality if it's recent, looking at half-life --
21 MS. EWELL: Oh, at half-life, okay.
22 MALE PARTICIPANT: (Inaudible) half-life,
23 so it doesn't make sense.
24 MALE PARTICIPANT: A half-life neutron
25 activation.

1 MR. CASTO: Right, seawater is what I got
2 in turnover.
3 BRIAN: So, just a heads up on that.
4 MS. EWELL: You mean on activation, we
5 wanted to (inaudible).
6 MALE PARTICIPANT: Anyway, Chuck. Chuck,
7 there's one last personal item. If I would, I know
8 (b)(6) [redacted]
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12 MR. CASTO: I will talk to him about that.
13 MALE PARTICIPANT: Okay, thanks.
14 MS. EWELL: All right, that's all we have
15 --
16 (b)(6) [redacted]
17
18 coordinate the review cycles and the configuration
19 control issue, one of the things I'd like to just
20 mention while you're on the line here with the group
21 here at D.C. is that, part of the block that (b)(6) [redacted]
22 (b)(6) [redacted] turned over to me is you're operating
23 principally from your (inaudible) recommended
24 guidelines.
25 And that's a mature and developed set of

1 guidelines for response to these kinds of casualties.
2 And as long as we stay fettered with those and talk
3 about differences, versus trying to reinvent the
4 wheel, that's a good place to be.
5 And so, just talking to the RCD here and
6 Marty and all, the closer we stay to your mature, well
7 developed things, and talk about differences like
8 salt, then I think the better off we are. And so if
9 you keep that in your mind when dealing with (b)(5)
10 folks there, and as we continue our discussions here,
11 I think that'll keep us out of.
12 MR. CASTO: Yes, and what I'm going to
13 rely upon is Brian. I'm going to trust that Brian,
14 when he sends me one of those that it's been reviewed
15 and it's kind of the officiation of the RST that
16 (b)(5) everybody that it
17 needs to include. We're going to assume that has been
18 brokered.
19 BRIAN: We've had calls every mid-shift
20 Chuck.
21 MR. CASTO: Okay.
22 BRIAN: And we're going over that document
23 down to the editorials.
24 MR. CASTO: I trust you in many ways,
25 Brian.

1 BRIAN: Okay, Chuck.

2 MS. EWELL: Okay, all right, yes, that's
3 all we've got on this end. If you guys have anything
4 you want to convey?

5 MR. CASTO: I don't think so. We're just
6 trying to get this report addressed I guess, and
7 there's a lot of angst about moving forward on it,
8 moving forward quicker than our pace is pacing here.
9 So, we're just trying to maintain a steady pace on it.

10 MS. EWELL: What report? The CMD
11 recommendations, what? I guess I'm not following.

12 MR. CASTO: The RST recommendations, that
13 report we were just talking about.

14 MS. EWELL: Okay, yes got you.

15 MR. CASTO: We're trying to pace that.
16 Okay, thanks for the update. We'll call you after the
17 MOD meeting probably.

18 MS. EWELL: Okay, then --

19 MR. CASTO: That won't be long from now,
20 but I don't expect the MOD meeting to last a long time
21 today. We've got to keep it focused on the RST report
22 and that's it. Unless we've heard something from
23 TEPCO we need to deal with. Thanks folks, be safe.

24 MR. VIRGILIO: All right, thank you.

25 MS. EWELL: All right, thank you.

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17 (CONFERENCE CALL INITIATED)
18 (0:31:11)
19 HEADQUARTERS OPERATIONS OFFICER: This is
20 Headquarters Operations Officer, I have the
21 Commissioners Assistant briefing bridge ready when you
22 are.
23 MALE PARTICIPANT: Okay.
24 HEADQUARTERS OPERATIONS OFFICER: Okay,
25 I'll be transferring it in and doing a role call.

1 OPERATOR: There are currently 22
2 participants in your conference. The following people
3 are in the conference.
4 HEADQUARTERS OPERATIONS OFFICER:
5 Headquarters Operations Officer.
6 MR. ROGGE: John Rogge, Region I Regional
7 Duty Officer.
8 MR. HARRIS: Brian Harris, OGC.
9 MR. HSUEH: Kevin Hsueh, FSME.
10 MR. CAMPER: Larry Camper, FSME.
11 MR. NATAROY: Mike Nataroy (phonetic)
12 Commissioner Apostolakis' Office.
13 MR. CASTLEMAN: Jack Castleman,
14 Commissioner Svinicki's Office.
15 MR. ORDERS: Bill Orders, Commissioner
16 Magwood's Office.
17 MR. RICH: Dan Rich, (Inaudible).
18 MALE PARTICIPANT: (Inaudible) Schmitz
19 (phonetic), Chairman's Office.
20 MR. CHEOK: Mike Cheok, NRR
21 MR. MARSHALL: Michael Marshall, Chairman
22 Jaczko's Office.
23 MALE PARTICIPANT: (Inaudible), EDO's
24 Office.
25 MR. FRANOVICH: Mike Franovich,

1 Commissioner Ostendorff's Office.

2 MR. CAMERON: James Cameron, Region III

3 Duty Officer.

4 MR. BRENNER: Eliot Brenner, Public

5 Affairs.

6 MR. ROTHSCHILD: Trip Rothschild, OGC.

7 MS. HANEY: Cathy Haney (phonetic), NMSS.

8 MS. HOWELL: Linda Howell, Region IV.

9 OPERATOR: Roster playback is complete.

10 MR. DYER: Well, good morning. Welcome to

11 the morning briefing. I'm Jim Dyer, the ET Director

12 on the day shift. Overall, (inaudible) activities.

13 First plant status. As of this morning, fresh water

14 is being injected into Units 1, 2, and 3. They're

15 borating the water into Unit 2. The water is coming

16 from the reservoir.

17 But power is at the site. There's still,

18 and in the control room, they have lighting in the

19 control rooms now. And they're in the process of

20 restoring ventilation. But a lot of the major motors,

21 and testing is still going on, megaring (phonetic)

22 going on to get any kind of mitigation capabilities

23 back from the plant.

24 (b)(5) pumping system is still at the

25 Yokota Air Base. They're going to conduct training,

1 an additional day of training today, and then the
2 south self-defense force stands by to get ready. So
3 it's not expected to be at the site until Sunday,
4 close of business at dark so it wouldn't be
5 implemented until Monday.
6 The Navy has two fresh water barges on
7 their way to the site. However, the first barge is
8 delayed due to weather, and is believed to take about
9 at least 30 hours before it will be available onsite.
10 There was a press release that the
11 Japanese government have recommended residents living
12 between 20 and 30 kilometers from the site to
13 voluntarily evacuate their homes. This is not a
14 radiological concern, it is a logistics concern. So
15 that press release and announcement have gone out in
16 Japan.
17 A key issue that we're working on here, in
18 particular the Reactor Safety Team, yesterday and the
19 day before we had transmitted the reactor safety test
20 system some draft strategies to the Japan Site Team,
21 and those have been shared now in draft form with both
22 NISA and TEPCO.
23 And the feedback that we got from the
24 Japan Team and that we're undertaking today is to take
25 a look at revising those strategies, in light of the

actual conditions as we know them now in Japan, recognizing that they were really developed over here by the NRC, (b)(5) [redacted] (b)(5) [redacted]

They sort of on our understanding of the site, but given the fact that we've got salt water, seawater into the injection, we now know that we do not have hydrogen purging capabilities and that we're reviewing those, and the intent is today, hopefully the call will start at 9:00 a.m. this morning, and today we'll be able to revise those strategies and get them back to the Japan Team today.

In the Japan Team, Chuck Casto and John Moninger are going to travel to the J-Village which is about ten miles from the site which is really the staging area for recovery equipment, and see if there's going to be value to embedding at that site.

Also, last night Roy Zimmerman participated in the SFITS (phonetic) with the deputies in that. And one of the items that we've identified is to go through it and there is, and the deputies call they're making a lot of assignments of duties that are tending to overlap with what we're doing.

So we're putting together as a roadmap, as to who we need to be coordinating with, other federal

1 agencies for dealing with on various issues with
2 respect to the Japan situation.
3 Lastly, an item that Vince Holahan
4 (b)(5) [redacted]
5
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7
8
9 And so they requested, and we agreed to
10 send an advisor (b)(5) [redacted] in that role, so Vince is
11 going to be our person. That's it. Questions?
12 MR. BRENNER: Hi Jim, it's Eliot. I'm
13 reading the latest AP story out of Japan, and it
14 includes a line that quotes the Japanese Defense
15 Minister as saying the U.S. Government has made "an
16 extremely urgent" request to switch to fresh water.
17 Is that accurate?
18 MR. DYER: It is. That was our number
19 one priority in the strategy that we had talked about
20 and [redacted] (b)(5) [redacted] is
21 to get on fresh water as soon as possible, as opposed
22 to the seawater.
23 MR. BRENNER: All right. If asked, I'll
24 probably say something on background, not to steer
25 people away from it. Thanks.

1 MR. DYER: Other questions?

2 MALE PARTICIPANT: Jim, this is

3 (inaudible). I missed the name of the person going to

4 (b)(5) could you repeat that please?

5 MR. DYER: Vince Holahan. He's a Health

6 Physicist. The FLS, the Health Physicist from FSME.

7 MALE PARTICIPANT: Okay, thank you.

8 MALE PARTICIPANT: Okay, thanks. And then

9 the last question I have is regarding the J-Village,

10 where is that in relation to the site?

11 MR. DYER: I don't have whether it's

12 north, south, east or west, but it's ten miles out.

13 It looks like it's due south along the coast.

14 MALE PARTICIPANT: Okay, okay, thank you.

15 MR. ORDERS: Hey Jim, Bill Orders. One

16 final question, there were five people that received

17 lethal doses so to speak, and we heard they had

18 deceased and then we heard they had not?

19 MR. DYER: Right. I don't know where that

20 came from. We have not heard of anybody being

21 deceased. So worst case, we've heard where the three

22 workers who went into the turbine building on Unit 3,

23 and have got the beta burns and that's the question we

24 have. You know, the Japanese are reporting 18 ram

25 skin dose, and it's not clear whether that would cause

1 the kind of injuries and burns that in fact, have been
2 reported.
3 MR. ORDERS: Well, the burns could be from
4 hot water too.
5 MR. DYER: Yes, Bill, I just don't know.
6 MR. ORDERS: Okay. Thanks, Jim.
7 MR. DYER: Okay. Hearing no more
8 questions, thanks very much.
9 MALE PARTICIPANT: What time's the next
10 call?
11 MR. DYER: I think it's scheduled for the
12 regular time, 8 o'clock.
13 MALE PARTICIPANT: 2000.
14 MALE PARTICIPANT: Very well.
15 MR. DYER: We just delayed this one to get
16 better feel for the day time CMT and Reactor Safety
17 Team.
18 MALE PARTICIPANT: And to let you guys
19 play fair.
20 MALE PARTICIPANT: Jim, you called this
21 place the J-Village, they're going to?
22 MR. DYER: Yes.
23 MALE PARTICIPANT: Is that just a J?
24 MR. DYER: J, as in the letter in the
25 alphabet, as I understand it.

1 FEMALE PARTICIPANT: Yes.

2 MALE PARTICIPANT: Okay, so it's just some
3 designated thing, it's not a place actually then,
4 right?

5 MJ: Here's what I have actually, I have,
6 this is MJ. Dae Do (phonetic) (inaudible) is about
7 12.5 miles south of the Dai-ichi Nuclear Power Plant.
8 The information is very limited. Let's see, news
9 today for emergency response. And that is really all
10 that they've been able to find out about it. And I
11 think that was probably just done by trying to Google
12 news. It does look like they have a website, but it
13 hasn't been updated since the 14th, 3/14. So if you
14 Google J-Village you might be able to find something.

15 MALE PARTICIPANT: Really. Sounds like a
16 place for a vacation. Thank you.

17 MR. DYER: Okay, thank you very much.
18 Have a good day. (42:56)

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11 (CONFERENCE CALL INITIATED)
12 (0:43:04)
13 MR. CASTO: And so this is with regard to
14 the reactor that was it and then it got into a lot of
15 health physics stuff, health effects, they wanted some
16 more support of health effects. They gave us some
17 more robots that they needed. DOE is taking care of
18 that.
19 They want PNL, the Pacific Northwest Labs
20 over here right away. They want them over here to
21 work on shielding and spent fuel removal. They want
22 them on all three of those working groups.
23 MR. DYER: Hey Chuck, as I understand it,
24 (b)(5)
25 wheelhouse?

1 MR. CASTO: Yes, yes, and (b)(5) as there,
2 so I turned to them and say, okay, you guys got this,
3 right? So, yes. Yes, that's no burden for me, I just
4 pass it off (b)(5)
5 MR. DYER: Yes. I just want to make sure
6 we didn't have any (inaudible).
7 MR. CASTO: No, no, I don't think, when it
8 comes to equipment, and basically decommissioning
9 that's all we just keep pushing anything related to
10 radiation monitoring or decommissioning we pass off to
11 (b)(5)
12 MR. DYER: Okay.
13 MR. CASTO: And equipment, most of the
14 equipment (b)(5)
15 (phonetic) or something like that, yes, (b)(5) can
16 help us out with. So we're not equipment providers
17 anymore.
18 They talk about the Shielding
19 Subcommittee, the Shielding Working Group and that
20 they're trying to get to their cooling water systems,
21 but they're having a very difficult time getting their
22 cooling water system because of the high radiation
23 levels.
24 Spent fuel, they talked about they'll have
25 10,000 fuel bundles to dispose of and they're working

on, you know, what to do with that and how to de-fuel the reactors and spent fuel pools, started that work today.

And what to do with the remaining buildings. They kicked that off today, they actually have a DIET (phonetic) member in charge of each one of those groups, you know, to give guidance.

(b)(5)

So they're working, doing some analysis on the structural analysis in the spent fuel pool.

And let's see, we talked about radiation measurement. They wanted everything that was offered last night, there were 300 pieces of equipment offered. They wanted all that. The germanium protector, they got that.

The first barge is on its way up north, second barge is like eight hours behind that. And a lot of work on that, boy, Bill Cook, man, that guy is incredible.

MR. DYER: Yes, we heard that the barge was delayed by some inclement weather.

MR. CASTO: Yes.

MR. DYER: Mike Hiltz (phonetic) has got a

1 question? Mike?

2 MR. HILTZ: Hey Chuck, we took that list

3 of discussion items and had a phone call yesterday

4 with (b)(5) [redacted] and

5 my sense is now, that those issues are being handled

6 directly as they come out of the Cabinet Meeting, and

7 being assigned to DOE, DOD, and if INPO has anything

8 to take, they should be getting it assigned to them

9 right out of those meetings.

10 And the consortium phone call we have on

11 this end, is not real productive or useful because

12 those items are already being tasked and taken care

13 of. There's been some push back on this end to

14 continuing the phone call, because these people say,

15 well, why do we need to status NRC with what we're

16 doing here in DOE. So, what's your sense to that?

17 MR. CASTO: Yes, I think that's the way

18 it's working Mike, for now. You know, but I don't

19 know that we're going to be able, I mean we have to

20 figure out a way, somehow we have to get out of this

21 model eventually, we can't have these meetings every

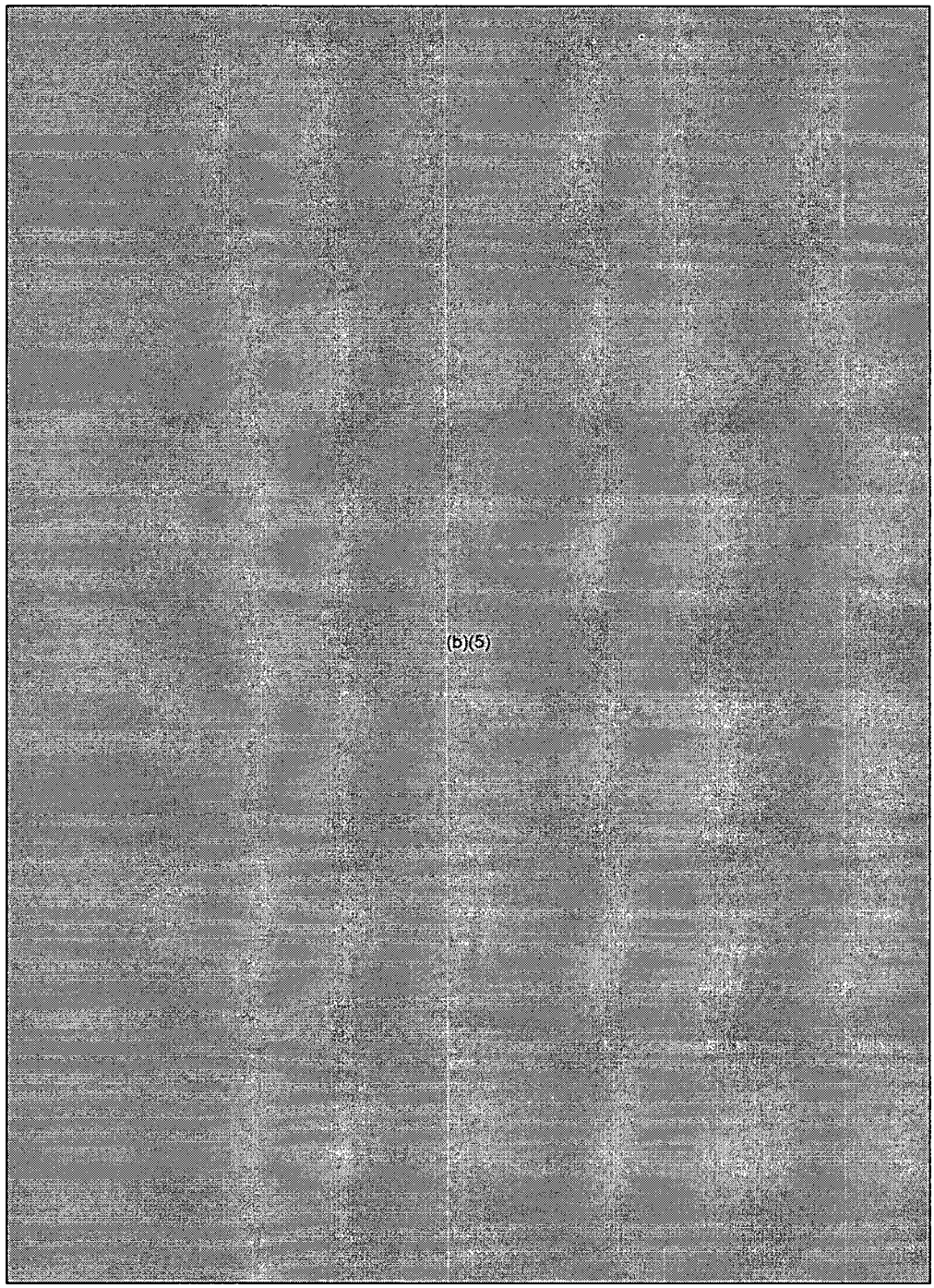
22 night at 8 o'clock, you know, with the Cabinet.

23 It's working right now, but eventually

24 you've got to get, but I think when the Chairman's

25 logistical group gets stood-up that, you know, they

1 may be able to handle some of that. But I haven't
2 thought through how to get out of the Cabinet Meetings
3 yet, it's just working so much better doing the
4 Cabinet Meetings, you wouldn't want to get rid of it
5 yet.



1 [redacted] (b)(5)
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3 MR. HILTZ: Yes.
4 MR. DYER: Hey, did you guys get to
5 J-Village?
6 MR. CASTO: Well, I think we're going up 9
7 o'clock tomorrow morning, we're going to take an
8 Apache helicopter and head up there [redacted] (b)(6)
9 [redacted] (b)(6) That's the plan right now, we'll see what
10 happens in the morning. We're leaving at 9:00, head
11 up that way.
12 You know, the rest of it's just minor
13 stuff. You'll get the minutes tomorrow, I don't think
14 that, you know, just some more equipment stuff they
15 needed, nothing, it was pretty, I don't know, I guess
16 what is it, Saturday night or something, so everybody
17 wasn't, and the Embassy had a reception tonight over
18 at the DCM's house, so a lot of people were out. It
19 wasn't quite the contingent that we've had every
20 night.
21 MR. DYER: Now what does DCM stand for?
22 MR. CASTO: The Deputy Counselor to
23 Mission, or something like that. You know, it's the
24 right hand person of the Ambassador.
25 MR. DYER: Okay.

1 MR. CASTO: Jim Zumwalt (phonetic) is the
2 guy that's in charge.
3 MR. DYER: How's your embedment with TEPCO
4 going?
5 MR. CASTO: It needs to get better. I
6 think I told you (b)(5) went over there and did not
7 like the facility, so we really need to get, that
8 needs to get better, and I think (b)(5) you know, his
9 commitment to get TEPCO to give us more information,
10 it will help that process.
11 We didn't get very far today with it. We
12 were over there, but I need to get over there tomorrow
13 or the next day to see what the situation is. I would
14 really like to, my intent was to have people in there
15 24/7.
16 MR. DYER: Yes.
17 MR. CASTO: But that's not always possible
18 when you have so many other demands. I really wasn't
19 enthusiastic about putting people on these working
20 groups, because they're really long-term, those
21 working groups are really long-term decommissioning
22 stuff.
23 And, you know, I only told them we would
24 go because they asked, and right now we're just doing
25 everything they ask for. But in the end, there's no

1 point in us being on those working groups. That needs
2 (b)(5)
3 MR. DYER: Okay.
4 MR. CASTO: So, we'll look at, what can we
5 do to spend more time in TEPCO.
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12 (b)(5)
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20 MR. DYER: Well, yes, they gave you those
21 five slots, maybe you ought to put it three-two, or
22 something like that.
23 MR. CASTO: Yes, that's a good idea. Let
24 NISA come in there with us. So, we'll try to get, I
25 think most of the Reactor Safety People today were

working on the strategy document.

MR. DYER: Okay.

MR. CASTO: Another busy day. I mean it's just, you know, everybody's busy, always working.

MR. DYER: Yes, well. What can we do to pick up some of the load for you?

MR. CASTO: I think we're all right. MJ, and Mike, and Jim, I think most of the phase, whatever that phase was, the first phase will be rotated out, I think some of the last ones tomorrow.

(b)(5) [redacted] contacts inside TEPCO.

MR. DYER: And who's this, Tony?

MR. CASTO: How do you pronounce his (b)(5) [redacted] (b)(5) [redacted] He's really a good guy. He's a great engineer and good with people. So he's, when I was sitting there looking at it thinking, why are we sending a Japanese speaking regular U.S. person back. And I talked to him and said, you know, is that a personal impact on, he said, no, he's fine with it and wanted to. So it was just keep him.

1 MR. DYER: Good.

2 MR. CASTO: Otherwise, I think, we did a

3 lot of barge talking today. I learned all about

4 barges today, but we'll just continue on. We continue

5 on with the battle plan tomorrow morning.

6 MR. DYER: Okay.

7 MR. CASTO:

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14 (b)(5)

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23 MR. DYER: Okay.

24 MR. CASTO: You all have a great day and

25 let us know if there's anything we can do for you.

1 MR. DYER: Anything at the table? Okay,
2 Chuck get some sleep.
3 MR. CASTO: All right, we'll talk to you
4 in the morning.
5 MR. DYER: Good night.
6 MR. CASTO: Good night.
7 MR DYER: Thanks.(55:49)
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12 (CONFERENCE CALL INITIATED)
13 (0:55:52)
14 HEADQUARTERS OPERATIONS OFFICER: This is
15 the HOO, Mike Weber is coming back on the bridge.
16 MR. WEBER: Hello. Mike Weber's back up.
17 MR. DYER: I caught about 2/3rds of your
18 discussion with MJ before.
19 MR. WEBER: Sorry, Jim.
20 MR. DYER: That's all right. Just wanted
21 to let you know what we decided to do is call, we're
22 going to try to bring Vonna and Bill Ruland up on the
23 bridge and relay the issue of the White Paper.
24 MR. WEBER: Okay. Are you going to do
25 that now?

1 MR. DYER: Well, yes, we told them to
2 bring them up on the bridge not knowing you were
3 coming back. But if they camp on, then we can just
4 dialogue it now, but if not we'll pass it when they
5 come up.
6 MR. WEBER: Okay. You want me to hang on?
7 MR. DYER: Well, you can go ahead and
8 whatever you came back for?
9 MR. WEBER: Well, I was just going to give
10 you additional information. I just got off the phone,
11 and I think what they're look for is an affirmation
12 that spent fuel is being safely stored. Why do we
13 believe that that's the case? And I said, yes, we
14 believe that's the case and the reason why I believe
15 that's true because that's what we do.
16 So this White Paper would be the
17 requirements, the compliance status, and then how do
18 we inspect licensees at a high level to provide that
19 confidence, that they are safely storing their spent
20 fuel?
21 VONNA: Mike?
22 MR. WEBER: Yes.
23 VONNA: Mike, this is Vonna.
24 MR. WEBER: Hi, Vonna. I think they're
25 trying to get Bill Ruland on.

1 MR. WEBER: Go ahead, Jim.

2 HEADQUARTERS OPERATIONS OFFICER: Bill
3 Ruland's coming up on the bridge.

4 MR. DYER: All right. Good. Hi Vonna and
5 when Bill gets here, this is Jim Dyer. Mike had just
6 gotten a call from the White House on an NRC tasking
7 that involves spent fuelfor both wet storage and dry
8 storage, so I asked to get Vonna and Bill Ruland on
9 the phone.

10 MR. RULAND: And I'm on the phone.

11 MR. DYER: Hey, Bill. And then Mike came
12 back. So maybe I'll let you hear it firsthand on what
13 the tasking is with Mike.

14 MR. WEBER: Thanks for joining us this
15 morning. The White House is concerned because they've
16 been getting some probes now from the Hill at high
17 levels about the status of spent fuel storage in the
18 nation.

19 This is obviously linked back to what's
20 going on with respect to the ongoing nuclear emergency
21 at Fukushima Dai-ichi. Their interest is, why does
22 the NRC have confidence that spent fuel is being
23 safely stored today?

24 And what they're looking for NRC to
25 provide, is kind of a multiple page White Paper that

1 would provide the basis for that confidence, that
2 spent fuel is being safely stored both in wet and dry
3 storage.
4 They're looking for something that would
5 lay out our requirements at a high level, not at the
6 subsection level. They're looking for the compliance
7 status. You know, are licensees in compliance, and
8 then what independent confirmation do we do in terms
9 of our inspections.
10 And obviously, if we're going to boil this
11 down to a few pages, this is not at a very detailed
12 level. And I think what this does is if we provide
13 this to them, then they have the basis on which to go
14 back and say, no, NRC tells us that they have
15 confidence and here's why. And then if there is a
16 desire to get into this in more detail, we can always
17 furnish that greater detail. So they're looking for
18 this sometime this weekend.
19 VONNA: Okay.
20 MR. WEBER: And I think, I don't know that
21 we have the staff there in the Ops Center to work on
22 this.
23 MR. RULAND: No, we don't.
24 MR. WEBER: I think we should have
25 somewhere in our Qs and As much of the information

1 that they're looking for.

2 VONNA: And I agree.

3 MR. WEBER: But I don't have access to

4 those Qs and As. So I don't know if it's something

5 where we can tap on a couple people to work on it for

6 a few hours, produce something, and then deliver it to

7 the ET.

8 And then once the ET is comfortable with

9 (b)(5) [redacted]

10

11 VONNA: Okay. Before the end of the

12 weekend, or today, or what's real deadline?

13 MR. WEBER: Well, they want the paper by

14 the end of the weekend. So my thinking is, and it

15 also and you tell me if I'm wrong, I'm not thinking

16 that this is a very complicated request.

17 VONNA: No.

18 MR. WEBER: So it ought to be the kind of

19 thing that somebody can work on for several hours and

20 get as far as they can, and then turn it into the ET.

21 If the ET is comfortable with it, then we move

22 forward.

23 VONNA: Okay.

24 MR. RULE: You know, primarily this is an

25 issue about, as I understand it about heat removal and

1 not about inadvertent criticality.

2 MR. WEBER: I think that's correct.

3 MR RULE: And I understand it, we've got a

4 couple folks that can write it up. So, Vonna?

5 VONNA: Then we're going to need to

6 integrate in the --

7 MR. RULE: Yes, so I'm thinking, let me

8 call my folks, because I'll have to either get them in

9 or have them write it at home and, you know, we'll

10 email it around. I'll be in the ET, my shift starts

11 at 3 o'clock today.

12 VONNA: Okay. I'm going to call Bernie

13 and get him working that and he can contact our

14 licensing branch if need be and our inspection group.

15 So consider Bernie as our focal point.

16 MR. RULE: Yes and the person that, I've

17 got to figure out who's around, but this is kind of a

18 Steve Jones is our Balance-of-Plant, he's the guy

19 that's going to have to do this. So it'll be his

20 Branch Chief, Greg Casto or Steve Jones is going to be

21 working this. But I'll have to check and I'll get

22 back to you.

23 VONNA: Okay, what's your number, Bill?

24 Your cell? Or your phone, sorry?

25 MR. RULE: Yes, just go to the

1 Headquarters Operations Officer, I've got like four
2 different numbers and they'll find me.
3 VONNA: And you're on shift, you said at
4 3:00 today?
5 MR. RULE: Yes, I'm on shift at 3 o'clock,
6 yes.
7 VONNA: Until 3 o'clock?
8 MR. RULE: No, I'm going from 3:00 to
9 11:00 tonight.
10 VONNA: Okay, all right, very good. I'll
11 touch base with you. I'll make a couple calls and
12 have them email including you, Steve, and Greg.
13 MR. RULE: Right. And I'll use the
14 Headquarters Operations Officer to get a hold of you,
15 Vonna.
16 VONNA: Sounds good. Mike, you said,
17 they're a couple of page for all of it, correct, wet
18 and dry?
19 MR. WEBER: Yes.
20 MR. RULE: Yes, so we're going to shoot
21 for really about a page a piece then?
22 VONNA: Okay.
23 MR. WEBER: Okay. I think that works.
24 And, you know, if it's three to four pages, that's
25 good enough.

1 MR. RULE: Okay. Yes, right, maybe two
2 pages max for each issue.
3 MR. WEBER: Yes.
4 MR. RULE: At least it's a starting point.
5 VONNA: And then we can kind of get it
6 integrated and make it read as one.
7 MR. RULE: Okay.
8 VONNA: Okay, sounds good.
9 MR. WEBER: Jim, you okay there in the ET?
10 MR. DYER: Yes, we're fine. Mike Hiltz
11 has joined us and the LT, Liaison Team will provide
12 their support for it.
13 MR. RULE: Okay.
14 MR. WEBER: All right.
15 MR. RULE: Okay, thank you.
16 MR. WEBER: Thank you, everybody.
17 VONNA: Yes, bye-bye.
18 MR. RULE: Bye.
19 MR. WEBER: Anything else you need from
20 me, Jim?
21 MR. DYER: No, we're good.
22 MR. WEBER: All right. How is it today,
23 is it relatively quiet?
24 MR. DYER: No, there's been, it's status
25 normal activities and that. I think the one thing is

1 all three turbine buildings have water in them. And
2 they de-watered Unit 1, so it did not have excessive
3 dose, but Unit 2 is the one that is unknown.
4 And of course Unit 3 is full, it's got a
5 couple feet of water in the basement, and apparently
6 the level's still increasing. So I think that's
7 something we're going to have to address.
8 MR. WEBER: Yes, that doesn't sound good.
9 MR. DYER: But on the other hand, there
10 was a news flash here and they were actually talking
11 about the, both Chuck and news flash talked about that
12 they're look at efforts to de-water.
13 MR. WEBER: De-water the turbine
14 buildings?
15 MR. DYER: Yes.
16 MR. WEBER: Okay.
17 MR. DYER: But depending on what's in
18 there.
19 MR. WEBER: Yes, and where's it coming
20 from.
21 MR. DYER: Right. Hey, thanks.
22 MR. WEBER: All right, thank you.
23 MR. DYER: Bye-bye.
24 MR. WEBER: Bye-bye.
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11 (CONFERENCE CALL INITIATED)
12 (1:05:35)
13 HEADQUARTERS OPERATIONS OFFICER: Yes,
14 this is Headquarters Ops Officer, Bill Borchardt's
15 coming up on the bridge.
16 MR. DYER: Okay, thank you.
17 MR. BORCHARDT: Morning, this is Bill
18 Borchardt.
19 MR. DYER: Good morning, Bill, this is Jim
20 Dyer.
21 MR. BORCHARDT: Hey, Jim. How are you?
22 MR. DYER: I'm here.
23 MR. BORCHARDT: Hey, I just got off a
24 (b)(5)
25

1 MR. DYER: Right.

2 MR. BORCHARDT: And they're excited by a
3 new phrase that's getting used which is, sign off.
4 You know, apparently they're being asked if the
5 industry (b)(5) [redacted] is ready to
6 sign off on a recommendation, or on I guess it's
7 normally recommendations about actions to take to the
8 Japanese.

9 And of course, that term has an industry
10 meaning, which implies, you know, some like liability
11 and expensive technical review and all the rest, is
12 that something intentionally being done?

13 MR. DYER: No. Well, it's something we're
14 working on here. The turnover from the mid-shift and
15 that is that the issue has to do with the Reactor
16 Safety Team strategies.

17 MR. BORCHARDT: Right.

18 MR. DYER: You know, that we sent to Chuck
19 and LAP (phonetic) yesterday, they were shared with
20 NISA and it got to TEPCO. And then as we got more
21 information about them, there was some consternation
22 back here about when we put those together, they were
23 based on the Severe Accident Management Guidelines and
24 our understanding of plant conditions.

25 Well, our understanding of plant

1 conditions has evolved. And particularly, you know,
2 the conditions in Unit 1 where they don't have
3 inerting capability. And so, one of the things, okay,
4 I'm working with Chuck's team, is that we need to
5 revise them to put it better in context.
6 [redacted]
7
8
9
10
11
12 MR. BORCHARDT: Okay.
13 MR. DYER: And there's a lot of
14 [redacted]
15
16
17
18 there. That these are really thought to be
19 guidelines, discussion papers, they don't carry the
20 same weight as an EOP if you would.
21 MR. BORCHARDT: Yes, and everything's got
22 a real big qualifier on it because of what we don't --
23 MR. DYER: Right, and so what we're doing
24 now is, [redacted] and
25 that, and we've changed it, that we're looking for

1 just a consensus that this is the best half forward,
2 our best thinking as a country.
3 MR. BORCHARDT: Yes.
4 MR. DYER: I talked to the Chairman this
5 morning about, we're putting together an issue paper
6 (b)(5)
7
8 MR. BORCHARDT: Okay.
9 (b)(5)
10
11 MR. BORCHARDT: All right, good.
12 MR. DYER: Okay?
13 MR. BORCHARDT: Yes. And so Reactor
14 Safety Team is using that new language now?
15 MR. DYER: Yes, the term I think we used
16 the last time was, we're going to provide a consensus
17 document to the Japanese through Chuck.
18 MR. BORCHARDT: Okay, that's perfect. And
19 I'll close the loop with Webster again.
20 MR. DYER: Yes. Now the problem is
21 apparently Chuck reported that, and I don't know if
22 you were on the call with the Chairman this morning?
23 MR. BORCHARDT: No, I wasn't.
24 MR. DYER: Okay. One of the things that
25 was Chuck, Chuck reported back from the Cabinet

1 Meeting last night, is that apparently the fact that
2 these recommendations were provided to NISA and TEPCO,
3 (b)(5) (b)(5)
4 (b)(5)
5
6
7 MR. BORCHARDT: Yes.
8 MR. DYER: And that he wanted to get a
9 full briefing after the Cabinet Meeting on why we
10 (b)(5)
11 MR. BORCHARDT: I see, okay.
12 MR. DYER: And so I think we need to
13 temper that a bit or it's kind of like he's, here
14 you've got the best thinking of the U.S. government,
15 and --
16 (b)(5)
17
18 MR. DYER: (b)(5)
19 (b)(5)
20
21 MR. BORCHARDT: Yes, got it.
22 MR. DYER: So that's what I'm doing right
23 now. I'm going to try to prepare an email to frame
24 that for the Chairman and I'll cc you and Josh.
25 MR. BORCHARDT: Okay, fine.

1 MR. DYER: And then he wants to set up a
2 call once we get this together. What changed since I
3 talked to the Chairman is that, the schedule for
4 completing the review of the strategies has flipped.
5 We originally were going to have a call at 9:00 a.m.
6 this morning. The call is now flipped to 1:00 p.m. at
7 industry request. But it's not clear that we'll
8 finish the review before the end of day.
9 MR. BORCHARDT: Okay. Very good. Well,
10 thanks, I'll see you in a little while this afternoon.
11 I'm going to come in the afternoon.
12 MR. DYER: Hey, I got one other issue
13 that's brewing and I don't know if you want to raise
14 this (b)(6) . Is Mike Hiltz is here, and
15 yesterday and he stayed over and we held about a two
16 hour meeting with the INPO, you know the industry
17 consortium?
18 MR. BORCHARDT: Right.
19 MR. DYER: We got, well I'll let Mike give
20 you the feedback.
21 MR. HILTZ: Bill, we had like 17 issues
22 (b)(5)
23
24
25

1 (b)(5) [redacted]
2
3 hand.
4 They take actions based upon the lists
5 that's developed coming out of the meeting, so they're
6 saying, they're wasting our time on this phone call.
7 I think moving forward we just, you know, INPO's got
8 their representative in the Cabinet Meeting too, so
9 they can take away the actions right out of that
10 meeting if there are any, as for INPO.
11 (b)(5) [redacted]
12
13
14
15 interagency or inter-government actions that are going
16 on since the Japanese government would be industry.
17 So I think moving forward, what I would
18 propose is a path forward is that, you know, INPO get
19 their input for the consortium coming out of those
20 meetings at least in the near term, and if they need a
21 call to interface with us, it gets set up as needed as
22 opposed to a daily phone call, where there's not a lot
23 of productivity coming out of it?
24 MR. BORCHARDT: All right, this is the 10
25 o'clock in the morning call you're referring to?

1 MR. HILTZ: Well, it was 10 o'clock, and
2 yesterday at 10 o'clock we hadn't got the meeting or
3 the download from the Cabinet Meeting, so we didn't
4 really have much to talk about, so we rescheduled it
5 for 2:30, and we had like the draft meetings minute
6 from the Cabinet Meeting, a list of 17 items that the
7 Japanese government characterized as items for
8 discussion, but they were things such as the need for
9 certain robotics.
10 The need for pumping equipment. There was
11 a whole laundry list of things. And we were able to
12 go through and assign a lead for each one of those
13 but, that in actuality I believe had already been
14 done. (b)(5) [redacted]
15 working on those items.
16 MR. BORCHARDT: Okay. All right, yes,
17 I'll bring that up with (b)(6) [redacted] I would guess they
18 would want to still have some kind of daily call with
19 the ET, just to touch base. It doesn't have to be
20 long. And if (b)(5) [redacted] want to drop out of the
21 call, I don't think that's a problem either.
22 It's just we're bringing INPO in the
23 industry into unchartered territory. And this kind of
24 activity in relationships, so I wouldn't be adverse to
25 maintaining some kind of daily contact on a routine

1 basis with them.

2 I mean I understand your point that they

3 have their rep in Japan too, so they're hearing

4 everything first hand, but just to make sure people

5 aren't hearing different things.

6 MR. HILTZ: Sure. Well, maybe a way to

7 handle that is, I've got a contact at INPO and maybe

8 the Liaison Team Director can on a daily basis have a

9 phone call with INPO to see what they need.

10 MR. BORCHARDT: Yes, okay. Yes, that's a

11 good idea too. So I'll just bring it up generally. I

12 won't try to fix the problem with (b)(6)

13 MR. HILTZ: Okay.

14 MR. BORCHARDT: We'll save that for later.

15 But I understand what you're telling me.

16 MR. HILTZ: Good.

17 MR. DYER: All right. What time do you

18 think you'll be in?

19 MR. BORCHARDT: Talk to you guys later.

20 Probably two hours or so.

21 MR. DYER: Oh, okay. Thank you.

22 MR. BORCHARDT: All right. Have a good

23 rest of the morning.

24 MR. DYER: You too.

25

(CONFERENCE CALL INITIATED)

(1:17:20)

HEADQUARTERS OPERATIONS OFFICER: This is Headquarters Operations Officer, Chairman Jaczko has been added to the ET bridge.

MR. DYER: Okay, thank you.

CHAIRMAN JACZKO: Hey, Jim.

MR. DYER: Good morning, Chairman.

CHAIRMAN JACZKO: Hi. I'm being asked to

(b)(5)

on the line? I know he might be sleeping, but can we get him on the line so we can get some input from him as well.

MR. DYER: Okay. Chairman, we can do that. We discussed that this morning, that's actually one of the key aspects of that strategy paper.

CHAIRMAN JACZKO: Yes.

MR. DYER: That I talked to you about earlier, and the concern is whether or not it's the

1 right thing to do on Unit 1.

2 CHAIRMAN JACZKO: Okay.

3 MR. DYER: And the discussion of that

4 concerns is that the Unit 1 containment is not

5 inerted.

6 CHAIRMAN JACZKO: Yes.

7 MR. DYER: If you flood up the

8 containment, then you may compress hydrogen gas

9 (inaudible) in the containment and cause an explosion.

10 CHAIRMAN JACZKO: Okay.

11 MR. DYER: And that's the principle

12 concern that we think is one of the key discussion

13 points that needs to be brought forward is, before you

14 implement the strategy, because in general the Severe

15 Accident Management Guidelines say to flood up the

16 containment, so that particularly you encase the

17 bottom of the reactor vessel.

18 CHAIRMAN JACZKO: Yes.

19 MR. DYER: Up the top of active fuel, so

20 that you don't. But you don't want to do it so that

21 you block the vent path, so you can still vent the

22 containment. And then the other concern is the

23 hydrogen ignition.

24 CHAIRMAN JACZKO: Yes.

25 MR. DYER: And so that is one of the key

1 principle discussion point. When I talked to Chuck
2 this morning --
3 HEADQUARTERS OPERATIONS OFFICER: Mr.
4 Casto is on the bridge.
5 MR. DYER: Okay.
6 CHAIRMAN JACZKO: Oh, okay. Hey Chuck?
7 MR. CASTO: Yes, sir.
8 CHAIRMAN JACZKO: Sorry, did I wake you
9 up?
10 MR. CASTO: That's not a problem.
11 CHAIRMAN JACZKO:
12
13 (b)(5)
14
15
16 MR. CASTO: Yes.
17 CHAIRMAN JACZKO: Do you have a
18 recommendation for me on that?
19 (b)(5)
20
21
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23 CHAIRMAN JACZKO: Okay. So let me just
24 (b)(5)
25

1 wells, is that correct?

2 MR. CASTO: That's right.

3 CHAIRMAN JACZKO: Okay. So the only

4 concern right now is Unit Number 1?

5 MR. CASTO: Yes, sir.

6 CHAIRMAN JACZKO: And what's your

7 recommendation there?

8 (b)(5)

9

10

11

12 CHAIRMAN JACZKO: Okay.

13 MR. CASTO: (b)(5)

14 mean everybody's pretty, almost certain of that. So

15 the potential to build up hydrogen is much lower than

16 Unit 1.

17 CHAIRMAN JACZKO: Okay. So let me just

18 read what I will say back then just to confirm, and

19 speak up if you have objections anybody, to this. Is

20 (b)(5)

21

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1 MR. CASTO: This is Chuck Casto, we're
2 comfortable with that.
3 CHAIRMAN JACZKO: Okay.
4 MR. DYER: I would agree too, Chairman.
5 Chuck and while you're on the line, when we had the
6 other discussion we had on Units 2 and 3, is Chairman
7 we also heard reports that there was actually water in
8 the turbine building basements of Units 2 and 3, as
9 well as 1.
10 CHAIRMAN JACZKO: Yes.
11 HEADQUARTERS OPERATIONS OFFICER: They
12 de-watered Unit 1 and it wasn't severely contaminated.
13 We know that Unit 3 has got fission product in the
14 basement and that, and if you pressurize or fill up
15 the containment whether you're, part of the unintended
16 consequences, is you're probably going to increase the
17 leakage into the turbine building and so you also need
18 to think about, what are you going to do as you fill
19 that turbine building with the water that's in there.
20 CHAIRMAN JACZKO: Okay.
21 HEADQUARTERS OPERATIONS OFFICER: It's a
22 complex equilibrium within the site.
23 CHAIRMAN JACZKO: But bottom line, it
24 doesn't change the recommendation. And this is a
25 question, I'm not (inaudible). Bottom line what I'm

1 hearing is that, nonetheless, it doesn't change the
2 recommendation on (b)(5) [redacted]
3 well?
4 MR. DYER: No, sir.
5 CHAIRMAN JACZKO: Okay. Can you, Jim
6 could you do me a huge favor, can you just send that
7 to me in an email, very quickly so that I can get that
8 around, and I'll just reiterate it in my email, but
9 that way I get the words as close to accurate as
10 possible?
11 MR. DYER: Yes, sir, expect it.
12 CHAIRMAN JACZKO: Okay. Good. And Chuck,
13 if you can stay awake for five more minutes, if you
14 could just take maybe a quick look at it, just to
15 confirm with you. Because I trust your judgment,
16 you're on the ground, you know more than any of us
17 about what's going on?
18 MR. CASTO: Yes, sir, not a problem. I'll
19 review it.
20 CHAIRMAN JACZKO: Okay, good. Thank you,
21 Chuck, appreciate it.
22 MR. CASTO: Sure.
23 CHAIRMAN JACZKO: Thank you. So I'll look
24 for an email in about 15-20 minutes?
25 MR. DYER: Yes, sir.

1 CHAIRMAN JACZKO: Okay, thanks.

2 MR. DYER: Chuck, if I can reach you on

3 the, just Chuck Casto, right?

4 MR. CASTO: Yes, chuck.casto@nrc.gov.

5 MR. DYER: Is it Chuck or Charles?

6 MR. CASTO: Chuck.

7 MR. DYER: Okay.

8 MR. CASTO: All right, if you'll just send

9 it to me and then I'll send back my concurrence.

10 MR. DYER: Okay.

11 MR. CASTO: All right, Jim.

12

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21 (CONFERENCE CALL INITIATED)

22 (1:25:40)

23 HEADQUARTERS OPERATIONS OFFICER: This is

24 Headquarters Operations Officer, Chairman Jaczko has

25 just been added to the bridge.

1 CHAIRMAN JACZKO: Hey, Jim.

2 MR. DYER: Yes, sir.

3 CHAIRMAN JACZKO: One other quick thing,
4 if you can just in that email just give me a brief
5 assessment of, to what extent any of this information
6 has been conveyed by Chuck to Japan and to whom?

7 MR DYER: Okay. Is Chuck on the phone, on
8 the bridge still? Okay. Will do, Chairman.

9 CHAIRMAN JACZKO: Okay. Or you can just
10 check with the Reactor Safety Team, just high level
11 one sentence that, you know, we had a meeting
12 yesterday and this was discussed or something like
13 that would be all.

14 MR. DYER: Okay.

15 CHAIRMAN JACZKO: But if you've got the
16 rest of it, I'd go ahead and send that to me right now
17 and I'll deal with the other part later.

18 MR. DYER: Okay, I've got about three
19 sentences left.

20 CHAIRMAN JACZKO: Okay, good. Thanks,
21 Jim.

22 MR. DYER: Sure.

23

24

25 (CONFERENCE CALL INITIATED)

1 (1:26:41)

2 MR. CASTLEMAN: Jim, this is Jack
3 Castleman. It was reported a couple days ago that we
4 suspected that there may be some slumping in the
5 cores. Do we have any more information on that?

6 MR. DYER: No. I think the slumping, I
7 mean there's still thought to be some slumping.
8 They're looking at the isotopic analysis from the
9 samples in the turbine building of Unit 3 to see if
10 that gives us any insight, but I haven't heard
11 anything more.

12 MR. CASTLEMAN: Okay, thanks. And the
13 next question is, the Sitrep says that an 18 ram dose
14 would not cause beta burns that were reported from
15 those workers, those three workers that were
16 contaminated in the basement of Unit 3. Are we taking
17 a look at that? Is the dose, was the dose accurate or
18 were the contamination levels?

19 MR. DYER: Yes. That's one of the
20 follow-up items I find this morning, Terry Reis has
21 got that on day shift for action to follow up on it,
22 for protective measure states.

23 MR. CASTLEMAN: Okay. And then there's
24 another NARAC run that's being done today. What does
25 the NRC intend to do with the results of that run?

1 MR. DYER: I'll ask Harry, another NARAC
2 run or the one that we put a lead in yesterday?
3 MR. CASTLEMAN: The one that was completed
4 yesterday, no that's done. But there, is being redone
5 is my understanding is the seven source (inaudible).
6 MR. DYER: The bounding.
7 MR. CASTLEMAN: The bounding
8 MALE PARTICIPANT: And that specific, it
9 has always been our attention that that is a very
10 worse case, and the direction I got is we are just
11 going to keep that in the federal family.
12 MR. CASTLEMAN: Okay, thank you.
13 MR. DYER: This would be the super four
14 trans --
15 MR. CASTLEMAN: Right.
16 MR. DYER: Okay. Other questions?
17 MR. ROGGEE: This is John Roggee, Region
18 I. A couple days ago we said that Casto and Moninger
19 were going to come home this weekend. What is the
20 forecast for replacing them? Is it to be determined
21 or is it a better date?
22 MR. DYER: It is, well, I think Chuck,
23 he's become the Ambassador's right hand man, so it's
24 not clear when he's going to come back. I know that
25 we're looking at, the EDO is working to do individual

1 replacements of all the teams, so I don't have a
2 schedule for when people are coming back.
3 MR. ROGGEE: Okay. I think it was
4 probably his call to say they were coming home then
5 earlier then, right?
6 MR. DYER: Yes, no, the team is there for
7 a while.
8 MR. ROGGEE: That's what I thought.
9 MR. DYER: I think what you may have
10 heard, John, is that the USAID humanitarian efforts,
11 there was discussions that started a day or so ago
12 about when are they going to, thought the
13 "humanitarian effort" which is more than just nuclear,
14 and that may be it. But we would still be there
15 supporting the nuclear recovery.
16 MR. ORDERS: Hey, Jim, this is Bill
17 Orders, how are you?
18 MR. DYER: Pretty good.
19 MR. ORDERS: Question for you, the
20 re-entry plan that's being talked about in the Sitrep,
21 whose product is that? (Inaudible)
22 MALE PARTICIPANT: Protective Measures
23 Team.
24 MR. DYER: The NRC Protective Measures
25 Team.

1 MR. ORDERS: And we're supplying that to
2 the Japanese government?
3 MR. DYER: We provided that to the Japan
4 Team and they're talking it over with the Ambassador,
5 and I think that they're thinking about it over in
6 Japan now and we may be doing some revisions to it
7 here.
8 MALE PARTICIPANT: We're waiting for
9 comments back.
10 MR. ORDERS: Well, the question is, where
11 is EPA in all this? Over.
12 MR. DYER: Well, EPA is in the U.S.
13 MR. ORDERS: Well, I know, but I thought
14 that they were involved in the Chernobyl event. And I
15 thought that they had some misgivings about us in this
16 event. So I'm just wondering what their relationship
17 is?
18 MR. DYER: I haven't heard that.
19 MR. ORDERS: Okay.
20 MR. DYER: No information.
21 MR. ORDERS: One other question. The
22 taurus seems to be much higher in radiation than the
23 other units, do we know why that is?
24 MR. DYER: No I do not.
25 MR. ORDERS: Okay.

1 MR. DYER: There was some discussion in
2 one of the turnover documents that it may have, the
3 point of measurement and the level of water in the
4 containment.
5 MR. ORDERS: Oh, yes.
6 MR. DYER: Yes. And any kind of shielding
7 or anything of water in the moon, I'm not sure.
8 MR. ORDERS: And one final, last night I
9 thought that I heard that Pacific Command was assuming
10 basically the integration of all efforts, but it
11 sounds like today we're still struggling with who's in
12 charge?
13 MR. DYER: I think there's still a lot of
14 dialogue going on. that was discussed last night on
15 the deputies' call and I saw an email from Roy, that
16 just gave some snapshots, but we're looking with
17 interest at the final meeting minutes to see if
18 there's assignments.
19 And I think SECI (phonetic) gets those
20 meeting minutes, because that's what we're trying to
21 get sent in here to the team, so we can make sure
22 we're aligned with that. That's one of Liaison Team's
23 tasking.
24 MR. ORDERS: Okay, thank you.
25 MIKE: Jim, this is Mike Snodderly. Can

1 you give us any more information on the workers that
2 were injured in Unit 3? I know there was some
3 discussion about that you're going to work today on
4 trying to figure out what the rad levels were. And,
5 do you know what the workers were trying to
6 accomplish?
7 MR. DYER: It said the intent was that I
8 read in the TEPCO press release, is that they were in
9 there to run cabling, you know, that they replaced
10 some damaged cabling to a pump.
11 MIKE: Okay, thank you. And then, one
12 last question. Now that it looks like the
13 recirculation pumps have failed on a number of units,
14 what is the, I guess the first priority appears to be
15 fresh water injection via into the seawater system,
16 but I guess what is the next strategy now that it
17 appears that the recirc pumps may not be available?
18 MR. DYER: I think that part of the
19 dialogue that's going with these reactor system
20 strategies. That it may not be the same for all
21 units, but I don't have the details right now. I
22 think that's, really what they're getting ready to
23 start the dialogue in about 9 o'clock.
24 MIKE: Okay, thanks, Jim. In the coming
25 days, that would be useful for us to communicate to

1 our principals, as to whether the next steps are key,
2 I guess I call it keys to success or successful
3 strategies.
4 MR. DYER: Yes, and we took an action item
5 to the Chairman's office, when we get these things,
6 our best thinking between the Japan team and the U.S.
7 team that we were going to route those through the
8 Chairman's office to commission.
9 MIKE: Thank you very much. Thanks, Jim.
10 MR. BRENNER: Hey, Jim, it's Eliot. Quick
11 question here, the I think you call them the NARAC
12 runs and the PMT analysis, do they still support the
13 50 mile recommendation?
14 MR. DYER: Yes, they do.
15 MR. BRENNER: I'm sorry, I broke up.
16 MALE PARTICIPANT: Yes they do.
17 MR. BRENNER: Thank you.
18 MR. CASTLEMAN: This is Jack Castleman.
19 Back on that subject, we were told last night that the
20 NARAC run, the latest NARAC results, I think they said
21 do not contradict the Japanese protective action
22 recommendation.
23 MR. DYER: That's true.
24 MR. CASTLEMAN: Okay. So I guess the
25 question is, we've got two different NARAC runs, we

1 have a more realistic one and then we have the
2 hypothetical bounding one, is it the hypothetical
3 bounding one that supports the 50 mile evacuation?
4 MALE PARTICIPANT: Well, what, I could get
5 in trouble answering that one. What supports the 50
6 mile evacuation is a combination of the AMS data, and
7 our RAPCO (phonetic) run that use different modeling
8 scenarios.
9 The model that was run, the NARAC last
10 yesterday, over the past couple days, assumed or
11 released over the past 14 days, okay. So at the time
12 that we made our runs earlier, it was showing tags
13 exceeded out to 37 miles given different assumptions
14 and meteorological data.
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19 (CONFERENCE CALL INITIATED)
20 (1:37:05)
21 HEADQUARTERS OPERATIONS OFFICER: This is
22 Headquarters Operations Officer, I have Chuck Casto
23 coming up on the bridge for a brief.
24 MR. DYER: Thank you.
25 MR. CASTO: Is this Mike?

1 MR. DYER: No, it's Jim Dyer, Chuck.

2 MR. CASTO: Mr. Dyer, how you doing this

3 morning?

4 MR. DYER: I'm okay, how about yourself?

5 MR. CASTO: I couldn't be better.

6 MR. DYER: Really?

7 MR. CASTO: Yes.

8 MJ: Well, that's good to hear, this is

9 MJ, how you doing?

10 MR. CASTO: Hey, good. Yes, I guess that

11 recommendation thing is, from what I know about it,

12 it's going to be a summary of the reports go to the

13 Chairman, then he's going to talk to the Ambassador.

14 MR. DYER: Right, yes, that's one of the

15 issues I want to talk to you, the strategies from the

16 Reactor Safety Team supposedly talked to part of your,

17 Mike Scott and you team and that, and Pat's, I think

18 there was, phone calls keep getting rescheduled, but

19 there was the options were 9:00, 11:00, and 1:00.

20 I think we're now, I think the latest

21 information I got from Pat, was is that INPO, and NR,

22 and the partners if you would, who are developing are

23 revisiting the recommendations in light of the

24 capabilities and the conditions in Japan, and may make

25 some alterations, procedures and then we'll get them

1 back to you.

2 MR. CASTO: Okay.

3 MR. DYER: And then separate from that,
4 we're putting together discussion points for the
5 Chairman to talk to the Ambassador to provide that,
6 put them in context I think.

7 MR. CASTO: Great.

8 MR. DYER: Is that what you understood?

9 MR. CASTO: That's what I understood, yes.

10 MR. DYER: Okay. Yes, I've got a
11 one-pager here that we're ready to pretty much send to
12 the Chairman. Marty and them were working on it last
13 night.

14 MR. CASTO: I gave the Ambassador a heads
15 up, I said, you know, the Chairman is likely to be
16 calling you and he said, no problem, call me 24/7,
17 whatever you need.

18 MR. DYER: Okay.

19 MR. CASTO: I know that the Ambassador is
20 not going to get what he asked me to do. I've already
21 had feedback from principals of a couple of the
22 organizations that said, you know, they're not going
23 to recommend anything.

24 MR. DYER: (b)(5)

25

1 [redacted]
2 (b)(5)
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4 MR. CASTO: Right.
5 MR. DYER: And given the conditions and
6 that and those level of developments, they don't carry
7 that force.
8 MR. CASTO: Yes, and he wanted the
9 (b)(5) (b)(5)
10 E
11 (b)(5)
12 (b)(5)
13 MR. DYER: Okay, that's good context,
14 thank you.
15 MR. CASTO: I've talked to contacts from
16 the principals and (b)(5)
17 (b)(5)
18 MR. DYER: Okay. Hey, now the Chairman
19 asked yesterday to set up a daily call with you, have
20 you done that?
21 MR. CASTO: Yes I have. It'll be at, let
22 me reach back, 6:30 p.m. your time.
23 MR. DYER: So that's the daily call?
24 MR. CASTO: Yes, 6:30 p.m. I'm supposed to
25 call, at 6:30 your time, I'm supposed to call the ET

1 bridge. So for me it'll be tomorrow morning, it'll be
2 7:30 in the morning.
3 MR. DYER: Okay, good. I'm glad that's
4 been set up. Okay, what can I do for you?
5 MR. CASTO: You want a briefin on the
6 Cabinet Meeting?
7 MR. DYER: That would be great.
8 MR. CASTO: You know, I mean it was
9 nothing real outstanding. All three units now are on
10 fresh water.
11 MR. DYER: Okay.
12 MR. CASTO: As of 10:10 a.m. this morning.
13 On Unit 2 at 4:46 p.m., whatever this is, Japanese
14 time they powered up Unit 2's control room. As far as
15 the turbine building basement flooding.
16 MR. DYER: On Unit 3?
17 MR. CASTO: On all three units. They
18 removed the water from Unit 1's basement.
19 MR. DYER: So you say, 1 has been
20 de-watered?
21 MR. CASTO: Yes, the turbine building
22 basement has been de-watered.
23 MR. DYER: Okay.
24 MR. CASTO: And Units 2 and 3, they're
25 reviewing the plans.

1 MR. DYER: Do we know, well, Unit 3 we
2 know, I guess we believe now that that came from the
3 core through the containment. Unit 2, do they have
4 any idea where the water was coming from?
5 MR. CASTO: Yes, there's only one place,
6 well, I don't know. I don't know, Jim, where it came
7 from. I don't even know how they confirmed that Unit
8 3 came from the core.
9 MR. DYER: Well, they did an isotopic
10 analysis of it, and they found very elevated levels of
11 iodine-131 and lanthanum-140.
12 MR. CASTO: Yes.
13 MR. DYER: And given the 100 days that the
14 spent fuel has been in the pool?
15 MR. CASTO: Okay, I get that.
16 MR. DYER: You wouldn't have that level of
17 iodine and lanthanum, it apparently is a fission
18 product that would indicate that you've got damaged
19 fuel.
20 MR. CASTO: Okay, I got you now, I see.
21 MR. DYER: The thing they were looking at
22 here is like I guess, Terry is here with me, Terry
23 Reis on the PMT, is that they had some chlorine-38?
24 MR. REIS: Right.
25 MR. DYER: Which would have indicated it

1 would've been activated by a neutron. So it would
2 have to be around from uranium.
3 MR. CASTO: Okay.
4 MR. DYER: You know, there's still a lot
5 of speculation on that, but the best thinking is that
6 the water in the turbine building from Unit 3 came
7 from the core.
8 MR. CASTO: I guess, maybe, you know, some
9 of those units, those risky condensing pots, but I
10 thought when you had an isolation say, that it was
11 supposed to go to the rack-and-building sump, but I
12 don't remember how you get it.
13 I mean back in the day, the risky
14 condensing pots went back to the main condenser, so
15 but I don't know what the flow path would've been.
16 MR. DYER: Were they running those by the
17 time they damaged fuel?
18 MR. CASTO: I don't know.
19 MR. DYER: Yes, see, I don't know, it's a
20 awful lot of ifs in that, but it'd be interesting, but
21 we don't know what Unit 2, the composition of the
22 water in Unit 2 turbine building is, right?
23 MR. CASTO: Right. They're just working
24 on a removal plan, both of those. Probably the other
25 thing was I prosed the subject of the flooding

1 containment in the report. I wanted to have a
2 dialogue with them on the report and what their
3 thoughts were on it.
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8 (b)(5)
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13 And during the 2 o'clock working group
14 meeting, they said, well, we don't have the right
15 people here to talk about it. We were over at MOD, we
16 were over at the Ministry of Defense and they had some
17 TEPCO people there, but they were part of the pump
18 crew.
19 MR. DYER: Okay.
20 MR. CASTO: You know with the barge and
21 all that stuff. And they said, well, we don't have
22 the right people here to talk about it.
23 MR. DYER: Did you surprise (b)(5)
24 MR. CASTRO: Yes, so that surprised him,
25 (b)(5)

1 (b)(5) and there was not
2 a pleasant conversation going back and forth there.
3 And (b)(5) came and looked back at me, and he said,
4 obviously we've had a breakdown in communications in
5 our organization. I'll find out about this.
6 MR. DYER:
7 (b)(5)
8
9 MR. CASTO: Oh, yes. He's definitely in
10 charge.
11 (b)(5)
12 I'm sure there's,
13 somebody's burning the candle tonight that's for sure.
14 MR. DYER: Okay.
15 MR. CASTO: So there wasn't any point, you
16 know, that was it, I just left it at that. (b)(5)
17 (b)(5) at the 2 o'clock meeting I sort of
18 complained about the lack of data, and lack of
19 information, and had asked at the 2 o'clock meeting if
20 we could have a simple sit-down with somebody
21 knowledgeable to go through each of the reactors and
22 ask questions about what's the status of them.
23 Well, tonight they told me, well, they
24 didn't have anybody, they just basically said, no, we
25 don't have anybody that can do that right now. But

1 (b)(5) look I know you guys are having
2 trouble with getting information, I'll fix that.
3 He said, that's my responsibility. I'll
4 open up the communication channel for you. And I just
5 said, well, if I have to give you a valid, and good,
6 solid, and meaningful recommendations or advice, we
7 need to know the whole picture.
8 MR. DYER: Yes. Hey, backing up to
9 (b)(5) does he have
10 the understanding, but what's his understanding of the
11 forcefulness of the strategies? Does he know that?
12 MR. CASTO: Yes, I explained to him, I
13 said this strategy is from some of our greatest minds
14 in this area from (b)(5)
15 (b)(5) and who are the other one. I can't remember
16 who the other group was.
17 MR. DYER: DOE.
18 MR. CASTO: DOE, yes. I said, you know,
19 this is some of our greatest minds on severe
20 accidents, these are their recommendations. And I had
21 to emphasize that to him last night and, you know,
22 last night I told him, during the day (b)(5)
23 we gave a report from those four organizations to (b)(5)
24 (b)(5) It would be, you know, we're ready to discuss
25 the report. (b)(5) last night that he hadn't had

time to read it. We got it to him --

MR. DYER: (b)(5)

(b)(5)

MR. DYER: Okay.

MR. CASTO: And I had given it to him at like, I don't know, maybe 2 o'clock in the afternoon, something like that. And so at the 8 o'clock meeting last night, (b)(5) I haven't had time to read it.

So I said, fine. (b)(5) how about tomorrow we talk about it. So we sent a team over there today to talk about it. And then tonight when (b)(5) he didn't know about the report.

The team that went over there today, I think generally I believe that TEPCO is headed towards containment flooding, but they're obviously concerned about the hydrogen. I mean we talked about this earlier today, I think Unit 2 and 3 are continually venting.

So I don't know, you know, there's probably no hazard in flooding these, and some of us believe that the containment on 2 and 3 are already flooded. If you look at the data, the radiation data and the pressure data, they're probably already

1 flooded.

2 So with a continuous vent and being

3 flooded, they're as safe as they're going to get, as

4 long as you keep feeding some water to them. Then

5 Unit 1, that's the one you really have to worry about,

6 if you're going to flood it, with regard to hydrogen.

7 We heard today that (b)(5) [redacted] was contracted

8 yesterday to construct some external heat exchangers

9 for decay heat removal.

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19 (CONFERENCE CALL INITIATED)

20 (1:51:11)

21 MJ: Oh, okay, well I'm the only ET you've

22 got right now. Mike, are you there?

23 MIKE: I'm here, hi, MJ.

24 MJ: Hi, right now I am your ET.

25 MIKE: Oh, awesome.

MJ: So you can either talk to me or I can go run around and try to find some other people, but will be back in a couple minutes.

MIKE: No, I'll talk to you.

MJ: Oh, good.

MIKE: I just got off the phone with the

(b)(5) (b)(5) (b)(5)

I guess they're sensing that there's growing interest in the Congress that there would be concerns about continued storage of spent nuclear fuel. And why it's important to go ahead with Yucca Mountain, so they're trying to at least understand what the facts are.

And they're looking for us to produce a paper this weekend that we can get back down to them that could at least lay out, what are the substantive requirements for dry and wet storage. And then what's the current status with respect to our licensees complying with those requirements, obviously they are.

MJ: Right, right.

MIKE: That's a little mystery I think sometimes to those of us outside the regulatory

1 programs. So I don't think that you have the people
2 there in the Ops Center that can work this.
3 MJ: That sounds like, that's SFTS
4 (phonetic), right, would be the keeper's of that
5 knowledge.
6 MIKE: Well, it'd be SSST for dry storage,
7 but it would be NRR for wet storage.
8 MJ: Okay.
9 MIKE: So I'm thinking we probably need to
10 get a couple people together that could work on
11 drafting something up today that could go back through
12 the ET. You all could get comfortable with it and
13 then once we're ready, we could launch that back down
14 (b)(5) [redacted]
15 I'm expecting another call from them, and
16 the person I'm working with is (b)(6) [redacted] (phonetic).
17 And Josh gave him a call this morning and kind of laid
18 out, you know, what our role is as an independent
19 regulatory agency and all those sorts of things. So I
20 think they understand the independence that we enjoy.
21 MJ: So do you think this paper, are we
22 talking like a one/two-pager paper, or something more
23 substantive, I mean there's a lot of requirements.
24 What would you envision the end product to be?
25 MIKE: I'm thinking it's probably like

maybe three to four pages.

MJ: Okay.

MIKE: Bullets and we can always attach the requirements. But I think at a high level, we need to summarize, well, what do we require.

MJ: Okay.

MIKE: And of course, we've got general designing criteria, and we have all Part 72.

MJ: Right, that's why I wanted to try to get the extent of what you thought this final product would look like.

MIKE: Yes, I think we need to address things like, how does it protect against significant external events. And why do we have confidence that it provides reasonable assurance and all that kind of stuff.

And then not get into the nitty gritty, but then attach the requirements if there's a desire for people to have that information. The one wild

(b)(5)

[redacted]

they're going to understand what that is. I've got another call now, so let me hang up and get back to

1 you.

2 MJ: All right, thanks.

3 MALE PARTICIPANT: So, what's our action?

4 MJ: I'll clue you in on it.

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1 (CONFERENCE CALL INITIATED)

2 (2:01:47)

3 HEADQUARTERS OPERATION OFFICER: This is

4 Headquarters Operations Officer, Chuck Casto is coming

5 up on the bridge. This is Headquarters Ops Officer,

6 Chuck Casto is up on the bridge.

7 MR. CASTO: Morning folks. Good morning.

8 HEADQUARTERS OPERATIONS OFFICER: This is

9 Headquarter Ops, let me go over and see what's

10 happening.

11 MR. CASTO: Okay, thank you.

12 HEADQUARTERS OPERATIONS OFFICER: Chuck,

13 you up there?

14 MR. CASTO: Yes, I am.

15 HEADQUARTERS OPERATIONS OFFICER: Okay.

16 MR. VIRGILIO: Hey, Chuck?

17 MR. CASTO: Yes.

18 MR. VIRGILIO: You there?

19 MR. CASTO: Yes I'm here. Good morning.

20 MR. DYER: Good morning, Chuck.

21 MR. CASTO: Hey, who do we have there?

22 MS. EWELL: The main group, Jennifer, Jim,

23 and Marty.

24 MR. CASTO: I just left a meeting with

25 (b)(5)

1 (b)(5) [redacted]

2

3 They were in preparation for the 8 o'clock

4 meeting tonight which is an hour and a half, something

5 (b)(5) [redacted]

6

7

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11 MS. EWELL: (b)(5) [redacted]

12 because those departments have at this point released

13 one version of it, they already have agreed that

14 that's the appropriate language.

15 MR. CASTO: (b)(5) [redacted]

16 (b)(5) [redacted]

17

18

19 MS. EWELL: They already have the written

20 recommendations. Does he want a conference call?

21 MR. VIRGILIO: Yes, I kind of, Chuck, are

22 you suggesting that their be a deputies like call to

23 get agreement on these technical deck level

24 recommendations?

25 MR. CASTO: I'm not suggesting it, the

1 Ambassador is.

2 MR. VIRGILIO: Well, have at it. You
3 know, pardon my french, but does he think he can
4 outsmart us?

5 MR. CASTO: Well, I don't know Marty.
6 That recommendation paper, that report that we've
7 generated, he thinks there should be a recommendation
8 from each of the principals that have participated in
9 that report, a written recommendation from those
10 principals, and that they should agree so that he can
11 carry (b)(5) and others, and provide it to them.

12 MR. VIRGILIO: So, what does he want us,
13 does he want to convene a deputies' meeting?

14 MR. CASTO: Essentially that's what I
15 would think that that's what that means.

16 MR. VIRGILIO: Well, it's some subset of a
17 deputies' meeting.

18 MR. CASTO: Right.

19 MR. VIRGILIO: That would be hosted by the
20 Chairman, since this is our document.

21 MR. CASTO: And all the people who have
22 contributed to that, (b)(5)

23 MR. VIRGILIO: Okay, okay, but let's go
24 through this, for NR, who do you imagine would be on
25 the phone call, (b)(5) (phonetic)?

1 MR. CASTO: (b)(5) [redacted].

2 MR. VIRGILIO: And for (b)(5) [redacted] what does he

3 want?

4 MR. CAST (b)(5) [redacted] phonetic).

5 MARTY: [redacted] I get it.

6 MS. EWELL: Will this be a discussion

7 about what's in this recommendations, or just, yes,

8 when we looked at it we concur?

9 MR. CASTO: No, he wants a written

10 recommendation from them.

11 MS. EWELL: Then why have the, I mean if

12 we can do it with a written recommendation, then do we

13 need a conference call?

14 MR. CASTO: Yes.

15 MR. VIRGILIO: Does he want to host the

16 call, or does he want us to host the call?

17 MR. CASTO: He wants us to host the call.

18 MR. VIRGILIO: Okay, I understand. So

19 when does he want to do that?

20 MR. CASTO: As quickly as possible.

21 MR. VIRGILIO: Should we wake the Chairman

22 up now?

23 MR. CASTO: I think so.

24 MALE PARTICIPANT: We have, Brian Holings

25 just joined, Chuck, and we were making some edit a

1 little bit from a last night version to get out some
2 of those attributions, (b)(5) [redacted]
3 that.
4 So on the version that's out there now,
5 I'm just trying to cut back from doing it right away.
6 I'm within a half hour here of getting a red line
7 strike out, (b)(5) [redacted]
8 the changes that are clear from that 1400 version that
9 went to Japan.
10 MR. CASTO: Yes, let me ask you another
11 question, Brian. Apparently I wasn't involved in
12 this, I was worrying about barges today, something
13 really important. Apparently TEPCO gave us some
14 hydrogen generation rates that were higher than we had
15 understood, that we had calculated, do you know
16 anything about that?
17 BRIAN: No, all I know is your Site Team
18 got data up on Unit 1 and Unit 3 of hydrogen
19 generation rates that TEPCO had calculated, and that
20 was the first time they'd ever given that to us.
21 And I don't think we had ever calculated
22 anything from here. I've never seen anything. Your
23 Site Team looked at them and said, these just seem
24 like they're high. That was your people.
25 MR. CASTO: The NR representative in this

1 meeting that I just came out of stated that the
2 hydrogen generation rates given today were higher than
3 those calculated previously.
4 BRIAN: Yes, that might be a communication
5 piece. Because I don't think they've been calculated
6 by anybody previously. I'll check on that. So that
7 might just be a communication piece.
8 MR. CASTO: Part of this, would you check
9 to see if (b)(5) have done those
10 calculations?
11 MALE PARTICIPANT: Yes, well, this is
12 (inaudible) from NR, we'll check to see if our labs
13 did the calculations. Is (b)(6) in the
14 meeting?
15 MR. CASTO: Yes, he was the one that said
16 that they was higher than what they had previously
17 calculated.
18 MALE PARTICIPANT:
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22 (b)(5)
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25 I remember the Chairman giving

1 me orders that only he could make recommendations.

2 MALE PARTICIPANT: Yes.

3 MR. CASTO: And so I said, look, I don't

4 have the authority to make recommendations to them.

5 You know, not that kind of recommendation anyhow. And

6 I would have to talk to the Chairman before I could go

7 to the 8 o'clock meeting, and convey that message.

8 Because the Chairman said, as I remember

9 my orders were, all recommendations have to be vetted

10 through him. [redacted]

11 [redacted] (b)(5)

12 [redacted]

13 MR. VIRGILIO: Well, let me suggest,

14 Brian, if you're still working on refining this?

15 BRIAN: The red line strike out, right.

16 MR. VIRGILIO: And we get it to your

17 counterparts?

18 BRIAN: Yes.

19 MR. VIRGILIO: We let them staff it up to

20 their bosses?

21 BRIAN: Yes. We were going to discuss it

22 at an 1100 call now, tomorrow morning. It's a

23 scheduled call, at (b)(5) there was an agenda item on

24 that, so we would have that out. It's not Marty, it's

25 just a change to the one you gave Japan, so it does

1 not yet include that table, but that's okay, it's what
2 Japan has seen already, and it just cleans it up a
3 little bit.
4 MALE PARTICIPANT: And makes it current.
5 BRIAN: That would be a document then,
6 they could carry to their principals right after the
7 11 o'clock call.
8 MALE PARTICIPANT: Right.
9 BRIAN: And so just the timing of it would
10 be, you know, by noon, about, they could be getting to
11 their principals and saying, hey, we're all right with
12 this, either it's we already looked at the one a day
13 ago on the 1400, here's a red line strike out version
14 of that. We're still good with all these, or not.
15 And then it'll be figured out at the 1100 clock call.
16 MR. VIRGILIO: Yes, how about that, Chuck?
17 MR. CASTO: So, what time is, what time
18 are you saying you'll have it, at 11 o'clock, 11
19 o'clock this morning, your time.
20 MR. VIRGILIO: Our time, that would be the
21 phone call.
22 BRIAN: That's when it's scheduled right
23 now, it could move that up if we wanted to.
24 MR. CASTO: Yes, I don't know, that would
25 be midnight our time.

1 MALE PARTICIPANT: What's pacing the 11
2 o'clock call?
3 BRIAN: Nothing. Only that it was
4 scheduled that way. So if we kick it out here by
5 6:00, then we could have it at 8:00 or 9:00.
6 MALE PARTICIPANT: 8:00 or 9:00, probably,
7 yes. But I don't know if that's going to help you.
8 It's already past your meeting --
9 MR. CASTO: Well, I think sooner the
10 better then, you know, anything quicker is better if I
11 can go over there at 8 o'clock meeting
12
13 (b)(5)
14
15 I mean I can go over and say, our best
16 thinking is this report that we gave you yesterday,
17 and is modified today. That's our best thinking and
18 we're seeking concurrence by all the people involved
19 in that report to make that recommendation.
20
21 (b)(5)
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23
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25 MR. CASTO: No, I think they're slowly

1 headed towards containment flooding, but they're
2 worried about hydrogen generation, and they're worried
3 about how they can power their hydrogen detectors or
4 put in new hydrogen detectors, or whatever.
5 MS. EWELL: But, we haven't taken a lot of
6 time to look at hydrogen for that particular, you
7 know, like Unit 1.
8 MR. CASTO: Yes, Unit 1, I told the
9 (b)(5)
10 2 and 3 are already venting. So Unit 1 is the one
11 that (inaudbile). And on Unit 2, who knows you might
12 be able to use installed systems to cool the reactor.
13 I don't know that that's been looked at. Unit 2's
14 reactor building is in tact.
15 MS. EWELL:
16
17 (b)(5)
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19 MR. CASTO: And that's what we've done
20 here to 4. We gave the SAMGs, said, here are the
21 SAMGs, you can read for yourself what they tell you to
22 do. Then tonight we were going to say, hey, our best
23 thinking is this report.
24 (b)(5)
25 MS. EWELL: Especially Unit 1.

1 MR. CASTO: Right.

2 MS. EWELL: Now, the Japanese I know have

3 SAMGs, so I don't get why, why isn't TEPCO just using

4 their own SAMGs?

5 MR. CASTO: I don't know the answer to

6 that question. Again, the only thing I know is their

7 hesitancy is because of the hydrogen generation. And

8 I think earlier I heard Brian and them talk about,

9 Units 2 and 3 are likely already flooded anyhow.

10 BRIAN: Yes, so that's why it's a low

11 priority for us Chuck, you're right on those. And the

12 soft spot here is that, I just repeat it, I think

13 you're right. [redacted]

14

15

16 (b)(5)

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20 MR. CASTO: [redacted]

21 terms Brian.

22 BRIAN: All right.

23 MR. CASTO: I appreciate your optimism,

24 but --

25 BRIAN: The only thing Jeff was trying to

1 bring out Chuck, was even your Site Team as saying,
2 all right, even our recommendations on that Unit 1,
3 you'll say vent, but it does bring the caution out,
4 however, we understand the issue with hydrogen.
5 Your Site Team and TEPCO's first feedback
6 on that was, well, can you understand why we want to
7 wait a while, because we don't know what that hydrogen
8 space looks like.
9 MR. CASTO: Right, and the report also
10 tells them to inert, but I don't this that's feasible.
11 BRIAN: Yes, that's right. Now our SAMGs
12 tell them to inert, so it does recognize that they
13 can't yet, and they're really asking us, do you think
14 it's okay to wait a couple days, maybe until we can
15 inert. And so we don't have a recommendation that
16 speaks directly to that right now.
17 MS. EWELL: I mean personally I don't
18 (b)(5)
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20 BRIAN: But either way Chuck we'll get out
21 the latest, either way we're working an update to that
22 paper anyway.
23 MR. CASTO: Right.
24 BRIAN: So, we'll still work that, get it
25 out. We'll try to schedule a call around 9 o'clock,

1 at least for us, the technical part of the
2 organizations to look at the latest paper, and have
3 them sign off on it, and then whether this next piece
4 works, we'll leave to you all.
5 MALE PARTICIPANT: So I guess once you've
6 sent that out to your counter parts, maybe at the
7 summary to the 9 o'clock call, 9 o'clock call?
8 BRIAN: I don't have when it's, I'm saying
9 I can pull it back from 11:00.
10 MALE PARTICIPANT: Okay, call at 11:00.
11 (Crosstalking)
12 MALE PARTICIPANT: Let's move it up, and
13 let's ask the participants in the call that not only
14 we're looking for their concurrence, but we're looking
15 for the concurrence of their principals. And we'll be
16 arranging a call sometime during the day.
17 MALE PARTICIPANT: Yes.
18 MR. CASTO: And then a written statement.
19 MALE PARTICIPANT: A written statement
20 that they concur with it.
21 MS. EWELL: (b)(5) --
22 MR. CASTO: What the recommendation is.
23 MS. EWELL:
24 (b)(5)
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1 the Agency policy, if this were a U.S. plant, that we
2 would make sure they're following their SAMGs.
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7 (b)(5)
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12 MALE PARTICIPANT: Is there a liability
13 issue here, if we're asking people to sign up to this?
14 MS. EWELL:
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18 (b)(5)
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24 MALE PARTICIPANT: But I'd go back to
25 where we were. We'll move the phone call up to 9

1 o'clock. When the phone call is over, we'll ask the
2 participants to take this to their leaders and be
3 prepared to --
4 MR. CASTO: You know, if they don't
5 concur, they don't concur, right? If they don't make
6 the recommendation. I don't (b)(5) in my person
7 opinion, I don't think (b)(5) is in a position to
8 do that.
9 MS. EWELL: Why are you specifically
10 focusing on (b)(5) versus any other principal?
11 MR. CASTO: I think it's because their
12 (b)(5) I think there's a lot of other differences
13 with them.
14 MS. EWELL: (b)(5)
15 MR. CASTO: (b)(5)
16 MS. EWELL: Oh.
17 MALE PARTICIPANT: C is like, the Chairman
18 would give the recommendation to somebody.
19 MALE PARTICIPANT:
20
21
22 (b)(5)
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1 MALE PARTICIPANT: He wants that if those
2 people will want to give him that.
3 MALE PARTICIPANT:
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6 (b)(5)
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11 MS. EWELL: Right. Now to mention, we're
12 not even sure we have the most accurate information.
13 MALE PARTICIPANT: Right, that was the
14 first step in this, was to go and sit down with TEPCO,
15 and say, are our assumptions correct. Are you taking
16 these actions.
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20 (b)(5)
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1 BRIAN: Yes, that's what we could do, but
2 that's not what Chuck is being asked for.
3 MALE PARTICIPANT: Oh, I understand that.
4 BRIAN:
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14 (b)(5)
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25 MR. CASTO: And during an event and on a

1 site team, you know, we give advice. We've given
2 advice to spray PORVs. We've given advice on diesel
3 generators, advice on bringing in equipment.
4 BRIAN: Yes, it's a fine line.
5 MS. EWELL: Yes, it's semantics are to
6 what words you'd call it.
7 BRIAN: A couple of thoughts on clarity.
8 Chuck, the White Paper approach has been working quite
9 well between you and TEPCO, right?
10 MR. CASTO: I don't know the answer to
11 that question. We've had one meeting. We gave it to
12 them yesterday, we had one meeting today on it.
13 BRIAN: I'm trying to establish the reason
14 for the change, the potential for going forward with
15 several actions here. One is we've established the
16 White Paper process as a technical vehicle for
17 exchange of ideas.
18 This is what the U.S. would do based on
19 what we understand the situation is, for your
20 information TEPCO, and we have from a technical
21 community standpoint, some alignment on that process.
22 We've done it once, we're on a path to do
23 it again. And it doesn't require a cover letter from
24 the Chairman of the NRC to continue that process. So
25 there's that as kind of one process that we're already

1 engaged in.

2 Separately, there's this (b)(5) [redacted]

3 request for some type of direction. And my suggestion

4 is, we might be able to continue to work the White

5 Paper process in parallel, while we work this other

6 request on, how do we respond to this thing we're not

7 comfortable with yet.

8 On a not to delay the White Paper process,

9 and potentially on a, we have provided our best

10 thinking via this other process. I don't know how to

11 handle (b)(5) [redacted] but my

12 suggestion is we can advise the two concerns.

13 MR. CASTO: How about we do this? We're

14 (b)(5) [redacted]

15

16 [redacted]

17 (b)(5)

18

19 BRIAN: I agree with that, and on a not to

20 delay the White Paper basis, is the other pieces of

21 thinking here.

22 MR. CASTO: Yes, you go forward with that,

23 that's easy, but --

24 BRIAN: Okay, we're doing that anyway,

25 good.

1 MR. CASTO: That's easy. That's not hard.

2 (b)(5)

3

4 MALE PARTICIPANT: I would like to do that

5 after we get the other partners in agreement with the

6 changes that are going to be made, and we can push

7 that phone call up until 9 o'clock. Get that

8 (b)(5)

9

10 We have this paper that we've gotten

11 stakeholders to agree with, and talk through the next

12 steps about how that might be presented to TEPCO. I

13 think this would be best done after we have this

14 revision agreed to.

15 MR. CASTO: That's fine. I'll go up and

16 talk to him.

17 MALE PARTICIPANT: Okay. And then they

18 can talk through the approach to how we would present

19 it, and what (b)(5) feels he needs in order to

20 make the presentation.

21 (b)(5)

22

23 MR. CASTO: I await further instructions.

24 I'm going to go up and talk to him. I'm going to

25 wait, if I can get him in the right environment.

1 MALE PARTICIPANT: Okay. And we'll
2 proceed as we've discussed with getting this next
3 revision agreed to by all the stakeholders.
4 MR. CASTO: Okay. And then, I have to
5 leave here in a little bit to go over to the Cabinet
6 Meeting.
7 MALE PARTICIPANT: Okay.
8 MR. CASTO: All right, thank you.
9 MALE PARTICIPANT: Let us know if we need
10 to change direction, but I think on Brian's piece,
11 he's going forward.
12 BRIAN: Yes.
13 MR. CASTO: Yes, he's going forward on
14 that and then we'll talk.
15 MALE PARTICIPANT: We'll talk about how we
16 prep the Chairman for the call.
17 MR. CASTO: I'll go up and talk to him
18 again and then see if I can get a different
19 environment, and then I'll let you know if anything
20 has changed.
21 MALE PARTICIPANT: Okay, thanks, Chuck.
22 MR. CASTO: Yes, thanks.
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22 (CONFERENCE CALL INITIATED)
23 (3:37:22)
24 HEADQUARTERS OPERATIONS OFFICER: We have
25 Mr. Borchardt coming up to the bridge.

1 MR. DYER: Okay.

2 HEADQUARTERS OPERATIONS OFFICER: Mr.
3 Borchardt, you should be on the bridge now.

4 MR. BORCHARDT: All right, thank you.

5 MR. DYER: Good afternoon, Bill.

6 MR. BORCHARDT: Hey, Jim. I just tagged
7 into the bridge just to listen in. I'm just over in
8 my office trying to get some work done. Anything
9 going on?

10 MR. DYER: I think we cc'd you on the
11 Chairman's exchange with Chuck and I regarding
12 flooding.

13 MR. BORCHARDT: I see it here. Yes, I
14 haven't read it yet.

15 MR. DYER: Yes, it looked like it came
16 from high places in the government, with all kinds of
17 strategies and that. So he responded, we woke Chuck
18 up, got a reply turned around on it. It really sort
19 of superceded the strategy we had with the talking
20 (b)(5) [redacted]
21

22 MR. BORCHARDT: Right. (Inaudible) by
23 events?

24 MR. DYER: Yes, we are where we are. And
25 (b)(6) [redacted] they just started a call with INPO and

1 industry to go through some of the details of the
2 strategies, and how they would propose to revise them
3 to capture some of the potential unintended
4 consequences that could happen with flooding up.
5 MR. BORCHARDT: Okay.
6 MR. DYER: One thing that Terry just
7 informed us from the Protective Measures Team that is
8 somewhat concerning to me is the, apparently NARAC is
9 doing another run and, you know, they took that highly
10 conservative trans-pacific scenario with like, four
11 spent fuel cores, and two or three reactors. And, you
12 know, the one that we had to make sure to bound the
13 fact that we weren't going to have releases in the
14 U.S.
15 MR. BORCHARDT: Right.
16 MR. DYER: And they applied it to Japan.
17 And of course that tells you, you've got to evacuate
18 Teltio (phonetic) and everything else.
19 MR. BORCHARDT: Yes.
20 MR. DYER: And it just, they did it as a
21 request from (b)(5)
22 You know, taking the, at the time we did that we had
23 one understanding of the core damage and we were
24 projecting and, you know, like day two or three into
25 the event.

1 Now we're, you know, ten days further
2 beyond, and to back date it with that kind of
3 uncertainty, and to just say, show me what would
4 happen in Japan, you know, that can be taken out of
5 context. Especially when it has a day time group of
6 the run of today.
7 MR. BORCHARDT: Right. Well, we end up
8 having to always put that fire out. It seems it comes
9 up every couple of days.
10 MR. DYER: Yes.
11 MR. BORCHARDT: (b)(5) [redacted]
12 (phonetic) has been, I think that the last I saw from
13 him was, agreeing that we ought to just have realistic
14 models, not these ultra conservative worst-case
15 things. But still, somebody's asking for it.
16 MR. DYER: Yes, well, I was talking to
17 Terry, and I think one of the things I asked him to do
18 is get the Protective Measures Team, you know, we just
19 finished yesterday, we finished this Tokyo run.
20 MR. BORCHARDT: Yes.
21 MR. DYER: That shows there's no, where
22 the boundaries would be for protective tags and
23 releases and that. But, you know, three, or four, or
24 five days from now, we'll have a different
25 understanding of the relief, the drivers, and a

1 completely different assessment as to what would
2 happen if a containment failed or something like that.
3 And whether or not we ought to try to get ahead and
4 project, and have a, here's our latest realistic
5 analysis.
6 MR. BORCHARDT: Right, okay.
7 MR. DYER: Because when they ask for them
8 after the fact, it's always used, two-week old data to
9 extrapolate. We're you in on the, that we're bringing
10 (b)(5) [redacted]
11
12 MR. BORCHARDT: No.
13 MR. DYER: (b)(5) [redacted]
14 was a (b)(6) [redacted] requested to Mike Weber, and he
15 brought it in here and we're working it, but they
16 wanted a three or four page White Paper on why U.S.
17 spent fuel is safe.
18 MR. BORCHARDT: Oh, okay.
19 MR. DYER: And it's due by TOB tomorrow.
20 So NMSS and NRR are putting together a, why is it safe
21 in a spent fuel pool, why is it safe in dry cast
22 storage.
23 MR. BORCHARDT: Yes.
24 MR. DYER: What do we do to insure that
25 with inspections. And then their goal is by the end

1 of the day shift today, have some a full consciousness
2 thought. Bill Ruland is on the swing shift. And he
3 was going to take a look at it and start distilling it
4 down, and then we can finalize it tomorrow.
5 MR. BORCHARDT: Okay. That really
6 shouldn't be that hard.
7 MR. DYER: No, if we make too hard, nobody
8 will understand it.
9 MR. BORCHARDT: Exactly. So that's, who's
10 your relief today?
11 MR. DYER: I think it's Roy again.
12 MR. BORCHARDT: Roy, okay.
13 MR. DYER: I better check, but I thought
14 it was Roy Zimmerman.
15 FEMALE PARTICIPANT: Yes, I think so.
16 MR. BORCHARDT: Well, you'll definitely be
17 checking around 3 o'clock if he hasn't shown up, I'll
18 tell you that much.
19 MR. DYER: No, it's Brian Sheron.
20 MR. BORCHARDT: Oh, okay. Okay, well I'll
21 probably come over before then.
22 MR. DYER: All right.
23 MR. BORCHARDT: See you in a while.
24 MR. DYER: Take care.
25 MR. BORCHARDT: Bye.

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8 (CONFERENCE CALL INITIATED)
9 (3:43:58)
10 HEADQUARTERS OPERATIONS OFFICER: This is
11 Headquarters Operations Officer, I paged the Chairman
12 for the 7:15 briefing.
13 (Off microphone discussions)
14 HEADQUARTERS OPERATIONS OFFICER: The
15 Chairman Jaczko is coming up on the bridge.
16 CHAIRMAN JACZKO: Hello.
17 MR. DYER: Morning, Chairman.
18 CHAIRMAN JACZKO: Morning.
19 MR. DYER: This is Jim Dyer, your day time
20 ET Director. I think key issues, overall plant
21 status, I think the big news was we're now injecting
22 fresh water into Units 1, 2, and 3, it's borated fresh
23 water into Unit 2. And the source of the water is the
24 reservoir.
25 CHAIRMAN JACZKO: Good.

1 MR. DYER: The barges are underway, but
2 delayed because of weather. So they're still looking
3 at about 30 hours before they get the barge there. So
4 we're not sure whether or not they'll deplete the
5 reservoir supply of water before they get the barges
6 there or not. So that's still an issue.
7 The big event that came to light yesterday
8 of course, was the Unit 3 turbine building filling
9 full of water from the containment, and containing
10 fission products, isotopes that show it's from a
11 damaged core. So water has continued to increase in
12 the turbine building.
13 I'm not sure how long it's going to be
14 before they have a release problem out of the turbine
15 building, but we're going to look on that, that's one
16 of our key areas of focus today.
17 CHAIRMAN JACZKO: Okay.
18 MR. DYER: The other thing, the Japanese
19 Government recommended that citizens and residents
20 living between 20 and 30 kilometers move. It was not
21 because of radiological concerns, it was because of
22 the logistics of lack of being able to support in that
23 close area.
24 CHAIRMAN JACZKO: Okay.
25 MR. DYER: The (b)(6) pumping system and

1 that, they're going to continue training today and
2 then transition the, the (inaudible) will move into
3 the site. It's now believed to be onsite either late
4 tomorrow or Monday.
5 The other key issue is the Reactor Safety
6 Team strategies for dealing with the core, based on
7 our better understanding of the plant conditions at
8 the site, we've got some recommended changes.
9 CHAIRMAN JACZKO: Okay.
10 MR. DYER: In caveat, so we want to put
11 into the actual strategies and modify the SAMG
12 principles in there. Those have been shared with
13 NISA, we're not sure whether they've been shared with
14 TEPCO.
15 CHAIRMAN JACZKO: Okay.
16 MR. DYER:
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19 (b)(5)
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23 CHAIRMAN JACZKO: Okay.
24 MR. DYER: Chuck and John Moninger are
25 planning today to visit J-Village, which is the

1 pre-staging point for the recovery, and see whether or
2 not it's going to be useful to embed part of the Japan
3 Team there. If that happens we may have to look at
4 the staffing.
5 CHAIRMAN JACZKO: Okay.
6 MR. DYER: The other thing that came up
7 here internally is, Roy participated in the deputies'
8 call last night.
9 CHAIRMAN JACZKO: Yes.
10 MR. DYER: And I believe he summarized it
11 for you. But one of the things we want to do is make
12 sure, we noticed that a lot of the responsibilities
13 that are coming out that are assigned to other federal
14 agencies that are, that we're working on some things
15 that are closely related, so we're going to make a
16 master list of that so that we know who's got the
17 lead.
18 CHAIRMAN JACZKO: Good.
19 MR. DYER: And we don't inadvertently hand
20 around another federal agency on some of these issues.
21 CHAIRMAN JACZKO: Good.
22 MR. DYER: That's pretty much it for our
23 overview.
24 CHAIRMAN JACZKO: Okay, good. Well, it
25 sounds like positive news on the fresh water

injection.

MR. DYER: Yes, sir.

CHAIRMAN JACZKO: Good. Well, keep me posted if things change, and what time are you

(b)(5)

MR. DYER: Marty?

MR. VIRGILIO: Chairman, what we want to do is get the document revised.

CHAIRMAN JACZKO: Okay.

MR. VIRGILIO: And shipped out to Chuck, which will probably be around noon or so our time, at best. And then it would be sometime this afternoon,

(b)(5)

CHAIRMAN JACZKO: Okay.

MR. VIRGILIO: He very much wants to talk to you.

CHAIRMAN JACZKO: Okay.

MR. VIRGILIO:

(b)(5)

1 CHAIRMAN JACZKO: Yes, okay.

2 MR. VIRGILIO: Basically, and I think

3 we've put together some talking points for you that I

4 (b)(5)

5

6 CHAIRMAN JACZKO: Okay.

7 MR. VIRGILIO: It would be uncertainty

8 around plant conditions, (b)(5)

9 (b)(5)

10 CHAIRMAN JACZKO: Okay. Well, let's plan

11 about 15 minutes for us to discuss that first before I

12 talk to him.

13 MR. VIRGILIO: Okay.

14 MR. DYER: All right, sir.

15 CHAIRMAN JACZKO: Okay, good. Well, just

16 email me with some times, about 3:00 to 4:00 will be

17 difficult for me, but otherwise should be fine.

18 MR. DYER: Will do.

19 CHAIRMAN JACZKO: Okay, good. Thanks

20 everybody.

21 MR. DYER: Okay, thank you.

22 CHAIRMAN JACZKO: Bye.

23 MR. DYER: Yes, sir.

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22 (CONFERENCE CALL INITIATED)
23 (3:53:34)
24 HEADQUARTERS OPERATIONS OFFICER: Josh
25 Batkin is coming up on the bridge, we're still trying

1 to reach the Chairman. Josh, you're on the bridge,
2 we're still trying to get through to the Chairman.
3 MR. BATKIN: Okay. I was just on with
4 him, he's ready for you. You can call his cell.
5 HEADQUARTERS OPERATIONS OFFICER: All
6 right.
7 MR. BATKIN: Hey guys.
8 DR. SHERON: Hey Josh, this is Brian
9 Sheron.
10 MR. BATKIN: Hello, Dr. Sheron. Are you
11 still sad?
12 DR. SHERON: Of course, I'm sad. But I'll
13 get over it.
14 MR. BATKIN: You know, at least with
15 (inaudible) off too, so it's just a sad office on
16 Friday, right?
17 DR. SHERON: Yes, well, like I said, I
18 lost two lunches but I'll take it out of my annual
19 donations.
20 MR. BATKIN: There you go.
21 HEADQUARTERS OPERATIONS OFFICER: Chairman
22 Jaczko, you're on the bridge now.
23 CHAIRMAN JACZKO: All right, thank you.
24 DR. SHERON: Hey, Chairman. Good
25 afternoon, hi. This is Brian Sheron. I'm the ET

1 Director from 3:00 to 11:00 today, and Joe Gidder
2 (phonetic) is here. The RST, ET member.
3 CHAIRMAN JACZKO: Right.
4 DR. SHERON: Just got a turnover from Jim
5 Dyer. He said that there is a write up plus the
6 briefing sheet, there's not a whole bunch that's new.
7 The plants are still injecting fresh water from a
8 reservoir that's nearby. They still have water in
9 turbine buildings of Unit 1, 2, and 3. Jim said Unit
10 1 had been de-watered. They've removed it. They've
11 got electrical power available to all six units.
12 For Units 1 and 4, they're in the process
13 of testing components. They've got lights on in the
14 control room for those units, now they're in the
15 process of trying to restore ventilation.
16 Chairman, I think you're aware, Japanese
17 Government officials recommended residents living
18 within 20 to 30 kilometers, voluntarily evacuate. It
19 says per NRC, the Jeff Pantene (phonetic), Chuck Casto
20 and company, the training has been completed on the
21 (b)(4) pumping system. They're ready to move the
22 equipment out to the site on Sunday.
23 CHAIRMAN JACZKO: Okay.
24 DR. SHERON: Navy apparently has two fresh
25 water barges moving to the site. It says the first

1 barge was delayed due to inclement weather, and there
2 remains concerns about possible harbor damage from the
3 earthquake which could make it difficult to dock the
4 barges, and I think they want the Japanese to have
5 their own tug fleet and everything, to be prepared to
6 move those barges into position once they arrive.
7 CHAIRMAN JACZKO: Okay.
8 DR. SHERON: The Reactor Safety Team
9 provided a coordinated set of recommendations as you
10 know, on severe accident management strategies to the
11 NRC Team in Japan.
12 We provided these to NISA and TEPCO. But
13 detailed discussions have not occurred. An update
14 will be discussed this afternoon on a conference call
15 (b)(5)
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19 CHAIRMAN JACZKO: Yes.
20 DR. SHERON: I was told we did receive the
21 data now from NEI, the sampling data from the plants.
22 My understanding is (b)(5) (b)(5)
23 (b)(5)
24 CHAIRMAN JACZKO: Okay, good.
25 DR. SHERON: So that's good. Chuck and

John are traveling to a place called J-Village.

CHAIRMAN JACZKO: Yes.

DR. SHERON: Okay, you're familiar with that then?

CHAIRMAN JACZKO: Yes.

DR. SHERON: And the Liaison Team is working to create a roadmap to analyze the summaries of the deputies' calls, and the U.S. and corresponding unions in Japan. The goal of this is to insure the roles and responsibilities, and all the responding agencies are clear and understood.

CHAIRMAN JACZKO: Okay.

DR. SHERON: (b)(5) [redacted] has requested a White Paper on the safety of the U.S. spent fuel storage (inaudible). We've got NRR, Bill Ruland and Vonna (inaudible) for NMSS, preparing draft documents. My understanding is I'll receive it sometime today for review, and hopefully we should have that ready to go to (b)(5) [redacted] by tomorrow.

CHAIRMAN JACZKO: Okay, good.

DR. SHERON: And then my understanding is (b)(5) [redacted] (b)(5) [redacted] Vince Holahan has been approved. He's on his way. He's going to take a

1 flight over there [redacted]

2 CHAIRMAN JACZKO: Good.

3 DR. SHERON: So that's taken care of.

4 CHAIRMAN JACZKO: Good.

5 DR. SHERON: That's about it in terms of

6 the current status to everything. Do you have any

7 questions?

8 CHAIRMAN JACZKO: No, Brian. I mean

9 what's our (inaudible) over all the plants then,

10 relatively stable, not improving, not getting worse?

11 DR. SHERON: Yes, I think they're probably

12 stable. Again, we're worried about, I guess it's Unit

13 3, because the workers that were contaminated when

14 they were walking around in the water in I guess the

15 basement of the turbine building, and they got

16 radiation burns on their feet. They did an analysis

17 of the water and confirmed that it did come from the

18 reactor core.

19 CHAIRMAN JACZKO: Okay.

20 DR. SHERON: So there is some sort of a

21 breach, we're just trying to figure out where it might

22 be coming from.

23 CHAIRMAN JACZKO: Okay. Good.

24 DR. SHERON: But other than that,

25 everything appears to be about the same, stable and

1 injecting fresh water.

2 CHAIRMAN JACZKO: Okay, good. Well,

3 thanks for the update and again, keep me posted if

4 there's any development.

5 DR. SHERON: Will do.

6 CHAIRMAN JACZKO: Okay, thanks, Brian.

7 DR. SHERON: Okay, thanks.

8 CHAIRMAN JACZKO: Bye.

9 MALE PARTICIPANT: Thanks guys, have a

10 good afternoon.

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6 (CONFERENCE CALL INITIATED)
7 (4:00:11)
8 DR. SHERON: Hey, Chuck.
9 MR. CASTO: Yes, sir.
10 DR. SHERON: This is Brian Sheron.
11 MR. CASTO: Good evening, Dr. Sheron.
12 DR. SHERON: Good morning to you.
13 MR. CASTO: Are you having a good evening?
14 DR. SHERON: As well as can be expected.
15 I've got Joe Gidder and Bill Ruland here with me.
16 MR. CASTO: Gentlemen.
17 JOE: Hello, Chuck.
18 MR. RULAND: Hello, Chuck.
19 DR. SHERON: You still having fun over
20 there?
21 MR. CASTO: It doesn't get any better than
22 this.
23 DR. SHERON: That's what I thought.
24 MALE PARTICIPANT: Living the dream.
25 MR. CASTO: That's it.

1 (Crosstalking)

2 (CONFERENCE CALL INITIATED)

3 9:20 p.m./9:43 p.m.

4 MALE PARTICIPANT: So the whole idea about

5 this document is we're going to have another phone

6 call to address Mike Scott's questions about whether

7 or not he adequately addressed the hydrogen question

8 in the document that we provided.

9 MALE PARTICIPANT: Okay.

10 MALE PARTICIPANT: That was --

11 MALE PARTICIPANT: Mike's question.

12 MALE PARTICIPANT: Yes. There was a lot

13 of discussion also about (inaudible) by the

14 containment.

15 MALE PARTICIPANT: Yes.

16 MALE PARTICIPANT: And that's really what

17 it, the flooding containment. It's really the rate of

18 flooding and whether those address the hydrogen

19 question. So we're going to revisit this with the

20 entire team in 15 minutes.

21 So they've got our hydrogen questions and

22 responses that we provided the team and I'm going to

23 ask for everybody's forbearance.

24 You know, if we think it's difficult

25 getting this (inaudible) document, this document out,

1 we don't know what difficult is, you know, compared to
2 what the Japanese are dealing with.
3 MALE PARTICIPANT: That's a good point.
4 MALE PARTICIPANT: Right? So if we can
5 just suck it up and let's get this damn thing to work,
6 get this done, so that's what we're going to do. So
7 we're going to do that in 15 minutes.
8 MALE PARTICIPANT: Triple dip (phonetic).
9 MALE PARTICIPANT: Yes, we're getting some
10 push back from (b)(5) (phonetic). Well, everybody's
11 agreed to this document and, you know, why are we
12 doing this? Why are we visiting it? And, you know,
13 I, I'm, we're going to still do it.
14 DR. SHERON: Hey, Chuck?
15 MR. CASTO: Yes, sir.
16 DR. SHERON: What's your number 1 priority
17 over there?
18 MR. CASTO: I think fresh water and
19 containment flooding. We got to get fresh water and
20 lots of, you know, lots of it established, a
21 sustainable water supply, and get three containments
22 flooded.
23 DR. SHERON: Okay. They have the
24 capability to, because there's all sorts of debate
25 here about flooding the containment because if you do

1 it with sprays, they're worried config (phonetic) guys
2 didn't inert their containments.
3 They may have air in them and that they
4 also have hydrogen and if you spray it you'll condense
5 out steam and you may wind up with detonable mixtures
6 of hydrogen.
7 MR. CASTO: I understand. Units 2 and 3,
8 I don't know. You know, it's likely they're breached
9 anyhow.
10 DR. SHERON: Yes.
11 MR. CASTO: I understand that concern
12 clearly for Unit 1.
13 MALE PARTICIPANT: Yes.
14 MALE PARTICIPANT: We have Chair Jaczko
15 coming up to the bridge.
16 MALE PARTICIPANT: Okay if(inaudible)
17 reactor's listed (phonetic) or not?
18 MALE PARTICIPANT: That's fine.
19 MALE PARTICIPANT: In the (inaudible).
20 MALE PARTICIPANT: Under the water
21 (phonetic)of the torus. Have, you know, you got to
22 get up to quench(inaudible) quench and then filter
23 release.
24 MALE PARTICIPANT: So how do we have
25 hydrogen (inaudible) reactors breach, (inaudible)

1 breach? How do you know the hydrogen (inaudible)?

2 MALE PARTICIPANT: Okay, Chairman Jaczko's

3 coming up to the bridge.

4 MALE PARTICIPANT: (Inaudible) operations

5 (inaudible).

6 CHAIRMAN JACZKO: Hey, Chuck.

7 MR. CASTO: Good evening.

8 CHAIRMAN JACZKO: Hi, how are you?

9 MR. CASTO: Good, sir. We have John

10 (phonetic), Mr. Moninger (phonetic) and Dan Dorman

11 with me.

12 MALE PARTICIPANT: Morning, Mr. Chairman.

13 MALE PARTICIPANT: Morning.

14 CHAIRMAN JACZKO: Hey, Chuck, I'm not sure

15 if you're aware of the latest plans. There is a good

16 possibility that I'll be getting on a plane tonight to

17 come to Tokyo. Are you aware of that?

18 MR. CASTO: You're welcome and, no, I'm

19 not aware of that.

20 CHAIRMAN JACZKO: Is, do you have any

21 concerns with that?

22 MR. CASTO: Absolutely not.

23 CHAIRMAN JACZKO: Okay. Right now my

24 itinerary would get me there at 9:30 on Monday. I

25 would probably have to turn around on Tuesday and come

1 back because I have congressional commitments on
2 Tuesday and Wednesday and Thursday.
3 So I know you're very, very busy, but if
4 you can have somebody tasked to make sure that when
5 I'm there I have productive meetings and productive
6 activity.
7 MR. CASTO: We will put an agenda together
8 and get that to you. That's quite a rigorous trip for
9 you, sir.
10 CHAIRMAN JACZKO: It'll be all right.
11 MALE PARTICIPANT: So he usually does
12 these (inaudible) trips in a half day, so (inaudible)
13 a full day (inaudible) an extended one.
14 MR. CASTO: Well, we look forward to your
15 visit.
16 CHAIRMAN JACZKO: Good. Anything you have
17 right now to kind of fill me in on?
18 MR. CASTO: Yes, I thought I'd go over
19 plant status, recovery status, any needs that we have
20 and then have a dialogue.
21 CHAIRMAN JACZKO: Okay.
22 MR. CASTO: With regard to plant status,
23 there are really no change in any of the spent fuel
24 pool statuses.
25 As far as reactor status, as of 10:10 a.m.

1 yesterday morning, nearly 21 hours ago, all three
2 reactors were on fresh water. And yesterday they also
3 lighted (inaudible) 6:00 p.m., lighted the Unit 2
4 control room, so I think that the three control rooms
5 now at least have lights on.
6 In the turbine building, the turbine
7 building basement on Unit 1, they have pumped all the
8 water out. They've dewatered the Unit 1 basement.
9 And as of, when we left last, a few hours
10 ago, the, Units 2 and 3, they were reviewing their
11 plans to dewater the turbine buildings. The, and
12 that's pretty much status, plant status.
13 On recovery, currently they have the dam
14 pipe running to fill up the condensate storage tanks
15 and (inaudible) water tanks. That line, they thought
16 they could get 100 tons an hour out of. They're, let
17 me back up.
18 They need 2800 tons per day of water to
19 feed the reactors, 2800 tons. The dam line, they
20 thought they could get 2400 tons out of it. It
21 degraded and some of the tanks are full.
22 As you know, that line hadn't been used in
23 32 years so it had some serious problems and they're
24 getting about half of the capacity out of it.
25 And then the barges will make up, between

1 the dam line, the original water line and the barges,
2 they'll have enough capacity to make up.
3 The barges are making their way to Onono
4 (phonetic) this morning where they'll be matched up
5 with some equipment and then later towed up to the
6 site.
7 The estimate on that is, I think, probably
8 (inaudible) at the MOD meeting yesterday they were
9 hedging their bet on late today. I think it's
10 probably going to be, it'll probably be tomorrow in
11 the end before they get, before that would get up.
12 And then USFJ has offered, they've offered
13 a, I don't know if it's really feasible. They've
14 offered I think a 30-mile, 36-mile line that they
15 would put on the road up there.
16 And you, the Japanese would bring lories
17 (phonetic) in to fill a tank and then they would pump
18 it 30 (phonetic). We're not sure that that source is
19 feasible.
20 They're also, we're asking them to, if
21 they're interested in some reverse osmosis units to
22 make sure there's a sustainable fresh water supply.
23 CHAIRMAN JACZKO: Is, Chuck, in general,
24 do you see, what's the likely, have we turned the
25 corner on the likelihood of a kind of medium/large

1 release or is that still a possibility?

2 MR. CASTO: Well, it is a possibility.

3 However, I think the assessment here we've had for a

4 couple of days is actually sort of I think that some

5 of us believe that Unit 2 and 3 containments are

6 already flooded.

7 And, you know, so this, you know, we need

8 to do what we're doing as far as preparing for

9 containment flooding, but some of the indications are

10 they're already flooded on 2 and 3 so the real concern

11 is Unit 1, so that's a, that's where we stand on that.

12 Whereas (phonetic) on recovery status,

13 they have working groups, three working groups. The

14 biggest concern is obviously to get radiation

15 shielding installed.

16 They're having difficulty getting core

17 cooling systems started because of the high radiation

18 levels. And shielding is as important as anything,

19 any other priority after flooding the containments and

20 stabilizing the reactor.

21 Then really, I mean, cooling's important

22 but you, if you can't get to it, then it's useless.

23 So one of their top priorities is shielding. And we

24 had our kickoff meeting yesterday on shielding and to

25 devise ideas.

1 And I know that PNL, Pacific Northwest
2 Labs, is, they, we've got them connected up with PNL
3 because they, the groups that they want to establish,
4 three working groups are shielding, removal of spent
5 fuel and robotics.
6 So they're very interested in any robotic
7 techniques and the shielding and then they'll have to
8 deal with, they'll have 10,000 fuel bundles at least
9 and then debris, so they'll have a lot of spent fuel
10 to remove.
11 We're still providing them with a
12 significant amount of equipment, drinking water, KI,
13 rad protection equipment, hoses, high-pressure hoses.
14 And DOE and others, DOD, are doing an outstanding job
15 in getting that done.
16 The water supply is really, the drinking,
17 bottled drinking water is really to limit the amount
18 of hoarding going on in Tokyo. So they believe that
19 if they show the people in Tokyo that they have a
20 stable supply of drinking water, there'll be less
21 hoarding.
22 Costco and Coca-Cola have agreed to
23 increase supplies and they've also got, they also have
24 an increased supply from Korea. So they're trying to
25 let the people know that that's stable, a stable

1 supply.

2 I tend, overall the angst, we started to

3 work on this yesterday. Actually John did a good job

4 on this. We're starting to, trying to work on some

5 milestones of recovery because there's a lot of angst.

6 You know, you have a lot of dependence

7 from military and the embassy who are gone. And you

8 have I think 225,000 people in shelters, something

9 like that.

10 And, you know, we have to give them some,

11 we, they need some kind of indication that this, you

12 know, 2 days or 20 days or 200 days.

13 So we, and just to the point you talked

14 about, you know, what is the probability of some large

15 release fraction? We have to give them some comfort

16 that, you know, here, that we know what the milestones

17 of success recovery are.

18 We don't call it success, but milestones

19 recovery are and here's how we're progressing to them

20 or not progressing to them. So we're working on that

21 and John's taking the lead on it.

22 CHAIRMAN JACZKO: Okay, good, good. Well,

23 on, hey, Chuck, I'm going to jump off here because

24 I've got to take another call quickly. Again, let me

25 just ask you this. Do you think it's valuable for me

1 to come?

2 (b)(5) [redacted]

3

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5 CHAIRMAN JACZKO: Okay. Okay, good.

6 Okay, well, we'll put that in progress. As I said,

7 right now I'll probably get on a flight tonight with a

8 layover in London.

9 I may try and touch bases with you there

10 depending what hour it will be. If it's your daytime

11 hours, I'll probably try and touch bases with you

12 there. And keep up the good work.

13 MR. CASTO: Is it permissible for us to

14 announce your visit?

15 MALE PARTICIPANT: We think (inaudible).

16 CHAIRMAN JACZKO: I think the effort is to

17 try and keep it as quiet as possible. So let's, I

18 think (b)(5) [redacted] is going to do that.

19 They'll (inaudible) to (b)(5) [redacted] but

20 certainly nothing publicly and, if anything, just to

21 (b)(5) [redacted] but beyond that let's keep it kind of

22 quiet at this point.

23 MR. CASTO: Yes, sir. See you soon.

24 CHAIRMAN JACZKO: Okay. Thanks, Chuck.

25 Okay, bye.

1 MR. CASTO: Bye.

2 DR. SHERON: Hey, Chuck.

3 MR. CASTO: Yes, Brian.

4 DR. SHERON: Hi. Hey, quick question on

5 this. One of the things that's been brought up is the

6 fact, you know, they got all that salt in the vessel.

7 MR. CASTO: Yes, sir.

8 DR. SHERON: And at some point, you know,

9 we're, we've been, there's been a lot of concern

10 about, you know, over time there's a corrosion

11 concern.

12 MR. CASTO: Right, I, bottom head.

13 DR. SHERON: Yes, and so the thought is

14 that when they start, you know, the fresh water, now

15 right now they're just putting enough in to boil it

16 out and everything.

17 But, you know, at some point the thought

18 was they would have to flush it out. And I don't know

19 whether, you know, because it's so radioactive, it was

20 brought up that they would need massive holding tanks.

21 MR. CASTO: Yes, I thought of that too,

22 that, you know, this, they're going to need an

23 enormous amount of storage space for water and sea

24 water. It's, they haven't thought that far ahead,

25 Brian.

1 For instance, you know, they're doing all
2 this stuff on spent fuel, about how to transport it,
3 and they have no place to put it. They just know they
4 want it out of there. That's all they know.
5 DR. SHERON: Yes, I was just (inaudible).
6 MR. CASTO: So they don't know where it's
7 going to go. And I don't think they're at the point
8 yet, they're, I'll, I will tee that up because I,
9 we've had the same thought here, is, you know, how are
10 they going to dewater this?
11 And where are they going to, you know, to
12 change out all the water and get a pure, more pure
13 water supply in there?
14 You know, basically I guess we're trying
15 to make three more spent fuel pools, you know. They
16 got four. You know, they got, they actually have
17 five, right, but, you know, try to turn these reactors
18 from reactors into spent fuel pools.
19 DR. SHERON: Well, I was just wondering
20 whether, you know, we should be turning anybody on to
21 thinking about, you know, planning, you know, down the
22 road to find tanks, you know, that could be brought in
23 somehow and hooked up.
24 MR. CASTO: Yes, I will tee that up and --
25 DR. SHERON: You may want to --

1 MR. CASTO: -- see if we can't talk to
2 them at MOD today at 2 o'clock and ask them to be
3 thinking about either building large storage tanks or
4 bringing in those big bladders like Vermont Yankee
5 has. So and it's going to be, likely it's going to be
6 highly radioactive, you know?
7 DR. SHERON: Oh, yes.
8 MR. CASTO: So that, they've got a real
9 problem up there with that kind of stuff and I, that's
10 why I asked them last night where did you dewater the
11 turbine building to, you know? Where did that stuff
12 go? That stuff's got seriously radioactive
13 (inaudible).
14 DR. SHERON: Where did they put it?
15 MR. CASTO: They did add a tank in the
16 condenser bay inside the turbine building. They just
17 pumped it to the tank inside the condenser bay.
18 DR. SHERON: Oh, okay.
19 MR. CASTO: I don't know what tank that
20 would have been unless amortap (phonetic) tank or
21 something like that that's in there, you know. I
22 don't know what other kind of tank was in the
23 condenser bay. Usually it's just like amortap, that
24 kind of stuff, so who knows.
25 But, you know, it didn't reduce the

1 radiation level down there. They just put it in, they
2 just contained it inside a tank.
3 MALE PARTICIPANT: (Inaudible) walking
4 through it now.
5 MR. CASTO: Yes, instead of walking
6 through it, they're walking by it so. They have, you
7 know, at some point, I think for us we have to decide
8 when is this, you know, a decommissioning kind of
9 site, a really nasty decommissioning site and not a
10 reactor safety issue? You know, that I think is
11 what's on the table.
12 DR. SHERON: Yes, they will, you know, I
13 don't know if you were privy, I think Marty and
14 Borchardt were, you know, kicking around what we call
15 an exit criteria.
16 And, you know, the three that I had heard
17 were, one is when the reactors were basically stable.
18 In other words, they had a pump towards the cooling
19 water or fresh water into them and there wasn't any
20 more chance of conditions changing.
21 The second was that when we didn't feel it
22 was necessary to continue monitoring the radiological
23 condition from the standpoint of having to change our
24 protective action recommendations.
25 And then the third was when (b)(5)

1 (b)(5) [redacted] Thank you very much. I don't need
2 your help anymore.
3 MR. CASTO: Right, yes. And I don't know
4 where we would be on reducing the PAGs. I don't know,
5 you know, where that would be in there.
6 DR. SHERON: Yes.
7 MR. CASTO: No, I'm just worried about
8 extending them, but, you know, making the circle
9 smaller. But, you know, that doesn't take a whole
10 army. It doesn't take a whole team of people to do
11 that so. I forgot to tell him and you all that John
12 and I are headed up to J-Village here in an hour or
13 so.
14 DR. SHERON: Yes, we saw that on the
15 briefing notes here, that you were going up there.
16 MR. CASTO: Yes. So they were very
17 reluctant to let anybody go up there and, but we told
18 them we would just spend a few hours and get out of
19 their way.
20 So they're going to do a 30-minute
21 briefing and then we'll have about an hour of
22 questions and then we'll fly back out of there.
23 DR. SHERON: Okay. Do you need anything
24 from us here?
25 MR. CASTO: Do we need anything from

1 headquarters? I guess, I heard Bill's working on that
2 paper, the final or near final copy of the procedure.
3 MALE PARTICIPANT: Yes, we're, Chuck, I'm
4 sorry for the interruption, but we're on the phone
5 call right now with Mike and the rest of the
6 consortium --
7 MR. CASTO: Great.
8 MALE PARTICIPANT: -- discussing it. And
9 so we're working that. Hopefully having Mike on the
10 call directly with them, they can, he can translate
11 what the Japanese concerns were with the original
12 document.
13 MR. CASTO: Yes and, Brian and Bill, with
14 regard to the consortium call, (b)(6) (phonetic)
15 kind of mentioned yesterday that they're struggling
16 for what it is their role is because we are
17 apportioning the needs list out right in the room, so
18 they don't understand what they're doing for the
19 consortium.
20 One of the things I thought of last night
21 was, you know, they might be a good group to do the
22 brokering of the three working groups, the shielding
23 working group, the robotics working group and the
24 spent fuel working group.
25 You know, they, that would be a good

1 group, [redacted] take the
2 lead on that, the waste issue, and that might be a
3 good role for the consortium to come in and help them
4 in those three areas.
5 Additionally, let me share with you, I
6 don't think we've written down and you probably need
7 to know or write down for us that TEPCO has contracted
8 with Shaw Group to build what we're told are decay
9 heat removal systems, remote, external decay heat
10 removal systems.
11 MR. DORMAN: And also debris removal.
12 MR. CASTO: And debris removal Dan tells
13 me. So, you know, clearly, well, that'll take some
14 time to, you know, clearly once you get some decay
15 heat removal systems going, then, you know, the
16 concern for an accident is greatly diminished.
17 MALE PARTICIPANT: Yes, we heard this heat
18 exchanger but all, you know, removal, decayed removal
19 systems and debris removal system makes more sense.
20 MR. CASTO: Yes and I think we have good
21 information on that. We have a close, we have close
22 contact on that, so I think that's good stuff there so
23 probably good info.
24 MR. RULAND: is [redacted] (phonetic)
25 on the line?

1 MR. CASTO: No, he's not.

2 MR. RULAND: Okay, you got that

3 information about (b)(6) right?

4 MR. CASTO: Yes, I did. Yes and he'd

5 already taken care of that.

6 MR. RULAND: Okay, good. Thank you.

7 MR. CASTO: Yes, thanks, Bill. Thanks for

8 (b)(6)

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11

12 today.

13 (b)(6)

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16 MR. RULAND: Good. Thank you.

17 DR. SHERON: Okay, well, I --

18 MR. CASTO: We're going to try to stay

19 busy, guys, and then we'll talk to you later. We'll,

20 so we're going to get off of the front nine here in

21 just a little bit.

22 DR. SHERON: Sounds good.

23 MR. CASTO: All right. Take care.

24

25

26

1 (CONFERENCE CALL INITIATED)

2 9:43 p.m./10:09 p.m.

3 DR. SHERON: Okay, hi. This is Brian

4 Sheron on the ET (phonetic) from this evening. We got

5 a number of staff in the room here.

6 But I'll go through real quick a briefing

7 sheet here and then I'll ask the others in the room if

8 they want to add anything and then we can open up to

9 any questions you might have.

10 With regard to plant status, not much has

11 changed probably since the last time you got an

12 update. They've got fresh water injection going now

13 to the first three Units, 1, 2 and 3.

14 The source is a nearby reservoir that

15 they've been able to tap. And they've got (inaudible)

16 fresh water being injected into Unit 2.

17 They've got water in the turbine buildings

18 of all three units, although we understand that they

19 pumped some of the water out of Unit 1 and now I think

20 they're working on trying to pump the water out of the

21 basement, the Unit, Units 2 and 3.

22 Electrical power has been hooked up to all

23 the units, all six units there. For Units 1 through

24 4, they're right now in the process of testing the

25 components, the pumps, the valves, et cetera, to see

which ones can be safely energized.

In other words, they're going to work, because some of the pumps and stuff were actually submerged. So lights are on in all of the control rooms, and right now what they're trying to do is restore ventilation.

We've heard that the Japanese government has recommended the residents living within the 20- to 30-kilometer range of the site to voluntarily evacuate, but this is not because of the plant.

It is because of the logistics in terms of just trying to get them, I guess, food and water and the like, so if you hear anything about that, it's not because of the plant.

The folks over, the NRC folks over in Japan, the one-day training on the (b)(4) pumping system has been completed, the training to the Japanese.

And the Self-Defense Force, which is basically their fire department, stands ready to move the equipment out to the site on Sunday, which it is right now over there.

Navy, U.S. Navy is sending two fresh water barges to the site. We've seen some news clips with some video of the barges being towed.

1 There was a question about whether the
2 harbor has received any damage from the earthquake
3 such that, you know, it may be too shallow in some
4 spots and I understand that the Navy has got some
5 ships going in there to do some soundings and make
6 sure there's adequate depth and mark it out so they
7 can bring the barges in.
8 According to Chuck Casto, even though the
9 barges were scheduled to get in there Sunday night
10 Japanese time, he thinks it's probably going to be
11 more likely tomorrow or Monday in Japan, or early
12 Monday.
13 We're in the process right now, the
14 reactor safety team, Raoul (phonetic), and I'll let
15 him say a little bit more about that, to provide
16 coordinated recommendations on severe accident
17 management strategies over at Chuck Casto's team and
18 that's going on.
19 Let's see, the Chairman, I saw an email.
20 (b)(5)
21
22
23 earlier today.
24 We have now started to receive
25 environmental sampling data from the U.S. nuclear

1 (phonetic) power plant through NEI. This data
2 apparently had been delayed, but it's now starting to
3 arrive and we're sharing the information with EPA.
4 Chuck Casto or John Moninger, we spoke
5 with them. I'm going to guess maybe it was about 30
6 minutes to an hour ago.
7 They were about an hour away from getting
8 on a plane to go up to what's called J-Village, which
9 is something on the order of about maybe six miles
10 south of the site.
11 This is apparently the staging area that
12 the Japanese government is using in terms of their
13 efforts to stabilize the reactors at Fukushima.
14 So they're going to go up there and I
15 think they've got about 30 minutes of presentations or
16 so and the like. And then Chuck said they'll probably
17 have about an hour for questions and answers and then
18 they're going to be coming back to Tokyo.
19 (b)(5) [redacted] requested a
20 white paper on the safety of U.S. spent fuel storage,
21 both wet and dry, and all our NMSS (phonetic) are
22 currently preparing draft documents, which are going
23 to be integrated.
24 And then they'll be, as I understand,
25 hopefully they'll get the ET to review some time

1 tonight. They're due (b)(5) [redacted] by Sunday
2 afternoon, so that's one of the areas we're working
3 on.
4 (b)(5) [redacted]
5
6
7
8
9
10 And there's apparently a lot. I think
11 (b)(5) [redacted]
12
13 families that were there.
14 Vince Holahan from FSME is going to travel
15 to Pearl Harbor. I don't know if he's going to leave
16 or already left.
17 MALE PARTICIPANT: Monday.
18 DR. SHERON: Monday he's leaving, and
19 he'll be there to be an advisor to the Navy.
20 And I think that's about it in terms of my
21 part of the briefing. I'm going to ask Bill Ruland if
22 you have any, you want to add anything?
23 MR. RULAND: Yes, this, we're continuing
24 to work on this, what I call the consensus assessment
25 document. We've had two phone calls on day shift and

1 a third phone call on our shift where we're sorting
2 out our final recommendations.
3 The most recent phone call was to,
4 included the site team. Mike Scott was representing
5 the site team. And the purpose of this phone call was
6 for us to make sure that the hydrogen, the need to
7 address the, you know, or prevent a hydrogen explosion
8 was explicitly considered in this document.
9 So we got on, you know, this phone call
10 lasted almost an hour and we think we've hammered it
11 out now with, you know, all the relevant parties.
12 So we needed to get it to Mike Scott for,
13 Mike is going to be meeting with the Japanese, Mike
14 and the team in Japan, be meeting with them, Japanese,
15 at about 11 o'clock Japan time so it's less than two
16 hours away, and we believe we're going to meet that
17 date, that time.
18 Even if we don't meet that time, Mike has
19 enough information for the phone call to be able to
20 speak intelligently with the Japanese. So we think
21 we're, you know, should be getting this document to
22 them hopefully in short order, probably within about
23 an hour.
24 As you can imagine, this document, we got,
25 you know, literally hundreds of people, you know, in

1 some way, shape or form are involved with looking at
2 this document.
3 So anyway, but I think this is the last
4 phone call. We're going to get this document done, so
5 that's it.
6 DR. SHERON: Okay. Cindy (phonetic), do
7 you want to give any update on your work?
8 CINDY: (b)(5) reporting that there's
9 (inaudible) Units 1 through 4 and it's hampering the
10 response progress and data that we can obtain on
11 radiation levels that are (phonetic) around the
12 plants.
13 In addition, I reported that about 17
14 temporal (phonetic) workers and contractors had doses
15 between 10 and 18 rems.
16 And the two workers that were mentioned in
17 yesterday's sievert (phonetic) report that had
18 possible beta injury have been transferred to the
19 Fukushima Medical University and they are being
20 evaluated from a radiological standpoint.
21 The last thing that we're working on today
22 (b)(5) is going over very carefully the ones
23 (phonetic) that NRC provided as far as source terms in
24 NARAC (phonetic) yesterday and then NARAC provided
25 their dose assessments for and food pathways

1 (phonetic).

2 (b)(5) [redacted]

3 that we're trying to resolve with the percent core
4 melding (phonetic) estimates that we put into the
5 (inaudible) and so we're get them the answers before
6 the end of tonight.

7 The last thing is that (b)(5) [redacted]
8 expects to be able to take a portion of the NARAC run,
9 probably three proof plots (phonetic) and three plain
10 English pages that would describe what the
11 presumptions were for the hypothetical case, which was
12 (phonetic) called previously the plausible realistic
13 case (phonetic) scenario.

14 DR. SHERON: Okay. Rich (phonetic) or
15 Joe, anything or --

16 MALE PARTICIPANT: I don't have anything
17 (inaudible).

18 DR. SHERON: Okay, that's pretty much
19 everything we know right now. So are there any
20 questions?

21 MR. BRENNER: I had. It's Eliot. Can you
22 tell me how many people we have in country right now?

23 DR. SHERON: In Japan?

24 MR. BRENNER: Yes.

25 MALE PARTICIPANT: It's 11 I think

1 (inaudible).

2 MALE PARTICIPANT: I don't know how many

3 people, additional people that we've sent at this

4 point. They were flying over the course of the last

5 couple days and --

6 DR. SHERON: Yes, we were going to have --

7 MALE PARTICIPANT: I would say about a

8 dozen, Eliot, and that's close enough (phonetic) for

9 government work.

10 MR. BRENNER: Yes, yes, I know we had 11.

11 Somebody came home and we sent some reinforcements.

12 I'm just looking in case I have to talk tomorrow,

13 ballpark numbers.

14 MALE PARTICIPANT: Yes, I would say about

15 a dozen.

16 DR. SHERON: Yes.

17 MR. BRENNER: All right. Thank you.

18 MR. KELMUH: This is John Kelmuh

19 (phonetic). I just, you all said FSME was sending a

20 rep to talk to the Navy Admiral. Who was the rep

21 again? I missed the name.

22 DR. SHERON: That was Vince Holahan.

23 MR. KELMUH: Thank you.

24 MALE PARTICIPANT: Vince will be in,

25 (b)(5) [redacted] for approximately two weeks.

1 We've, we got him out there and if conditions change
2 he might stay a little longer. But at least for right
3 now, we're scoping (phonetic) that at about two weeks.
4 MALE PARTICIPANT: Eliot, we got an
5 update. We got 11 in country right now.
6 MALE PARTICIPANT: Yes, Tim Coke
7 (phonetic) left and Dan Dorman's there.
8 MALE PARTICIPANT: But now we have other
9 people flying this week, so that number will change as
10 a function of each day of this week.
11 DR. SHERON: Yes, there was a new team --
12 MR. BRENNER: Okay, I'll check back
13 tomorrow.
14 DR. SHERON: I'm sorry?
15 MR. BRENNER: I said I'll check tomorrow.
16 DR. SHERON: Yes, there was a new team
17 that flew out. I think there were, some went out like
18 Monday and I think another, I think two of them went
19 out Monday and another group went out like Wednesday.
20 And I don't know whether the team they
21 were replacing has actually got on an airplane yet and
22 come back or whether they're doing a turnover.
23 So, you know, it, but I think, you know,
24 what Marty says is probably about right. It's
25 probably in the order of a dozen.

1 MR. BRENNER: Okay. Thanks very much.

2 MR. ORDERS: Hey, Brian?

3 DR. SHERON: Yes.

4 MR. ORDERS: This is Bill Orders. The

5 white paper you mentioned about the safety of the

6 spent fuel and wet/dry storage, is this something that

7 could be forwarded to the Commission Office? I know

8 you have to coordinate it, but I think that the

9 Commissioner could be interested.

10 DR. SHERON: I don't see why not. Sure.

11 MR. ORDERS: Thank you.

12 DR. SHERON: Okay. Any other questions?

13 MR. CRANOVITCH: Brian, this is Mike

14 Cranovitch (phonetic). I have a question for Bill.

15

16 (b)(5)

17

18

19 Could you describe, discuss that a little

20 bit more, what the strategy is? What's the next step

21 that the RST envisions to go beyond what they're doing

22 currently and that, just in terms of feeding and

23 bleeding the pressure vessel?

24 MALE PARTICIPANT: Actually that

25 particular subject was, that particular topic was the

1 subject of our most recent phone call with the, with,
2 (b)(5)
3
4 (b)(5)
5 because we believe anything that's being injected into
6 the reactor vessel is likely leaking out through the,
7 the recirc pump fields (phonetic) in the containment,
8 thus flooding up the containment.
9
10 (b)(5)
11
12 Do not increase the flood up rates but,
13 until what is obtained, until a nitrogen purge is
14 obtained. So, you know, don't want to squeeze the,
15 basically the containments with excess hydrogen there.
16 So that's, that document is being revised
17 as we speak so that there is sufficient specificity
18 about this, particularly because of the Japanese
19 concern about a hydrogen explosion. And I would
20 argue, you know, a warranted concern.
21 So that's kind of where that current
22 recommendation is, but I haven't seen the exact words
23 but it's something I think we've hammered out with all
24 the parties involved. Does that answer your question?
25 MR. CRANOVITCH: It does. I guess it

1 sounds like you envision some type of, ultimately a
2 flood up and purge operation and I guess venting
3 through some sort of a upper vent in the drywell
4 itself?
5 MALE PARTICIPANT: I don't have that
6 document in front of me about where that venting is
7 happening, but I think that's right.
8 MALE PARTICIPANT: That'll be venting from
9 the drywell I think (phonetic).
10 MALE PARTICIPANT: Right.
11 DR. SHERON: Right now we understand that
12 they're putting in just enough water to keep the core
13 covered up to about half height, which means that it's
14 steaming off the core and then it's going down into
15 the drive (phonetic), into the torus, into the
16 wetwells and condensing.
17 And obviously the wetwell's going to
18 slowly heat (phonetic) up and the like. I would
19 imagine it's probably near saturation at some point
20 and then they have to vent off any steam to prevent it
21 from over-pressurizing.
22 MALE PARTICIPANT: And of course there's,
23 while Unit 1 containment appears like it's intact,
24 there's some question about the integrity of the Unit
25 2 and 3 containment, (inaudible) containment.

1 And that was another topic of discussion,
2 you know, how does that change? You know, if it does,
3 the recommendations and (inaudible).
4 MALE PARTICIPANT: Let me just change the
5 topic for a moment. There was a mention on a few
6 calls about (b)(5) [redacted] that the Japanese are
7 interested in obtaining that. How, where are we with
8 that effort?
9 DR. SHERON: Give me one second. I'm
10 going to pull up, I just got the (b)(5) [redacted]
11 (phonetic). We got (phonetic), okay. They actually
12 had, I think they were in the process of providing
13 robotics over to Japan, if I could find it in here
14 somewhere.
15 MALE PARTICIPANT: Mike, the Japanese
16 government was actually interested in three things.
17 One was robotics, one was removal of spent fuel which
18 would be longer term obviously and then shielding.
19 And shielding's important because, you
20 know, they're having difficulty restoring the core
21 cooling systems because of the high dose rates.
22 MALE PARTICIPANT: Yes, I can imagine they
23 are. Did we recommend they restart the residual heat
24 removal systems once they become checked out and are
25 available?

1 MALE PARTICIPANT: The, as I understand
2 it, the Japanese have been interested in trying to
3 restart those systems and because of dose rate
4 concerns they have contracted with Shaw to install
5 both decay heat removal and debris removal systems.
6 So it sounds, I mean, my inference I draw
7 from that is Japanese government believes they need to
8 construct new systems to accomplish those functions.
9 MALE PARTICIPANT: Lots of shielding of
10 course, yes.
11 DR. SHERON: Matter of fact, when we
12 talked with Chuck Casto and I asked him, I said, what
13 are your priorities over there? And he said, you
14 know, after flooding of the Unit 1 containment,
15 shielding was the next biggest priority.
16 He said that, you know, that was a concern
17 for the Japanese because he said if they can't access
18 the locations in the plant where they have to install
19 equipment and the like because of radiation doses,
20 then all the equipment in the world's not going to
21 help if they can't get it installed. So shielding is
22 going to be the, I think one of the next big efforts.
23 And I did see, I can't find it in here,
24 but I did see somewhere where (b)(5) said that they had,
25 they were providing some robotics over to Japan at

1 their request.

2 MR. CRANOVITCH: Okay. And I have just

3 one last question for you, just more out of curiosity.

4 What assistance are the Russians providing given

5 their experience with Chernobyl?

6 MALE PARTICIPANT: That was the last thing

7 I read.

8 MALE PARTICIPANT: Yes, Mike, the last

9 thing I heard was the Russians showed up a week ago

10 but then they left.

11 MR. CRANOVITCH: Wow. That's interesting.

12 DR. SHERON: And their President gave them

13 good advice. He said don't build nuclear plants in

14 highly seismic areas. Thank you very much.

15 MR. CRANOVITCH: Yes, a lot of Monday

16 morning quarterbacking there. All right, well, thank

17 you. I appreciate that.

18 DR. SHERON: Any other questions?

19 MR. CONNORLY: Yes, this is Mike Connorly

20 (phonetic). Commissioner Apostolakis wanted me to ask

21 one question and I hate to bother you guys with this.

22 But he was trying to access an IAEA

23 database and it was password protected and I know that

24 we were working with IAEA as the primary source for

25 coordinating data.

1 Is there someone at the op (phonetic)
2 center this weekend? And I've been trying to work
3 through the EOs (phonetic) office, but if someone
4 could maybe help us try to get a contact at IAEA or to
5 help us figure out this password it'd be greatly
6 appreciated.
7 MALE PARTICIPANT: (Inaudible).
8 MARTY: Mike, the only thing that I know
9 of that's recently emerged is we have been working
10 with IAEA to have them serve as a clearinghouse for
11 all member country support being provided to the
12 Japanese.
13 So that, for example, if they're asking
14 for robotics from us, that would be in an IAEA
15 database or Web site or whatever and that other
16 countries would know that that request had been made
17 and that we were providing that support. That, there
18 may be other databases. That's the one I'm familiar
19 with they're standing up right now.
20 MR. CONNORLY: Thanks, Marty. Yes, the
21 one that he was trying to access was
22 IAEA.org/programmes/a2/ and it was password protected.
23 So if someone could get us a contact of somebody that
24 we can, to help us access that it'd be, as I said,
25 greatly appreciated by (inaudible).

1 DR. SHERON: Could you repeat that one
2 again? IAEA, what was it?
3 MR. CONNORLY: I'm sorry.
4 IAEA.org/programmes, P-R-O-G-R-A-M-M-E-S, /a2/.
5 DR. SHERON: Okay, we'll see what we can
6 do.
7 MR. CONNORLY: All right, thank you very
8 much. That's all. And thanks for the update.
9 DR. SHERON: Okay, no more questions?
10 Okay, thanks a lot.
11 (CONFERENCE CALL ENDED.)
12
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	Fred, Manager	1587	980-8234
	Linda, Supervisor	1359	
Maintenance	Wes, Manager	1789	980-9123
	Randy, Supervisor	1874	
Human Resources	John, Manager	1542	980-7612
	Chris, Supervisor	1287	
	Debra, Supervisor	1723	
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