

Group EC

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
RST Coordinator Audio Files

Docket Number: N/A

Location: N/A

Date: March 11, 2011

Work Order No.: NRC-4222

Pages 1-2

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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JAPAN'S FUKUSHIMA DAIICHI
RST COORDINATOR AUDIO FILES

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FRIDAY,
MARCH 11, 2011

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SATURDAY,
MARCH 12, 2011

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JAPAN'S FUKUSHIMA DAIICHI
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SUNDAY,
MARCH 13, 2011

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MONDAY,
MARCH 14, 2011

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Reactor Safety Team.

HEADQUARTERS OPERATIONS OFFICER: Yes.

I've got Josh Batkins on the line. He wants to talk to whoever just prepared the briefing for the Chairman. Transferring you now.

MALE PARTICIPANT: Hold on. I need somebody who prepared the briefing for the Chairman.

JOSH BATKIN: Or just put me on the ET bridge.

Whatever's faster.

LAURA DUDES: Laura Dudes.

JOSH BATKIN: Laura, hey, it's Josh Batkin.

LAURA DUDES: Hi.

JOSH BATKIN: Hey, these bullets are great.

Can you take them up one more level. Think about it. There's an Ambassador that has no experience with nuclear. And he needs to be able to understand them. So, can you condense them down just to be the very high level messages?

LAURA DUDES: For the reactor safety portion of it?

JOSH BATKIN: For both portions. No more than like two or three sentences for each one, that just gets the very high level message that we want to convey.

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1 LAURA DUDES: Will do. I'll work with
2 Kathryn right now.

3 JOSH BATKIN: Okay. And then if you can
4 send this to me and the Chairman again in like five minutes,
5 that would be fantastic.

6 LAURA DUDES: Will do. Thanks.

7 JOSH BATKIN: Thanks.

8 LAURA DUDES: Bye, bye.

9 JOSH BATKIN: Bye.

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(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Good afternoon,
Division of Risk Assessment.

BILL RULAND: Yes. This is Bill Ruland.
Could you connect me with Sher Bahadur, please?

FEMALE PARTICIPANT: Sure. Hold on.

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(CONFERENCE CALL INITIATED)

SHER BAHADUR: Sher Bahadur.

BILL RULAND: Hey, Sher, Bill Ruland.

SHER BAHADUR: Yes, Bill.

BILL RULAND: I never found anybody to substitute for me here. So you're going to have to go up to the EDO's office and represent me in the EDO pre-brief for 5046A.

SHER BAHADUR: Okay. That's at 4 o'clock?

BILL RULAND: Yes. It's at 4 o'clock.

SHER BAHADUR: And were you in the talking mode?

BILL RULAND: Say again?

SHER BAHADUR: Were you in the talking mode?

BILL RULAND: Well, yes. Dick Dudley will handle most of it.

SHER BAHADUR: Okay.

BILL RULAND: You don't have to worry about it.

SHER BAHADUR: All right.

BILL RULAND: I mean, you know, I got a speaking part. They're going to go over it. You just need to get whatever action items come out for me.

SHER BAHADUR: But do we have the handouts

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1 on your --

2 BILL RULAND: No, no. Don't worry, no.

3 SHER BAHADUR: Just walk in there?

4 BILL RULAND: Yes.

5 SHER BAHADUR: Yes, I'll do that.

6 BILL RULAND: Thank you.

7 SHER BAHADUR: Yes.

8 BILL RULAND: Bye.

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TUESDAY,
MARCH 15, 2011

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(CONFERENCE CALL INITIATED)

RICK HASSELBERG: Reactor Safety Team,
Hasselberg.

JASON SCHAPEROW: Hi, Rick, Jason Schaperow
here.

RICK HASSELBERG: Jason. What's up buddy?

JASON SCHAPEROW: Just the man I wanted to
talk to.

RICK HASSELBERG: Yes? What's going on?

JASON SCHAPEROW: Hey, yesterday I got to
the thing. I was greeted by two things yesterday morning
when I got into work.

RICK HASSELBERG: Yes.

JASON SCHAPEROW: One thing was a watch bill,
you know, with my name on it in two places.

RICK HASSELBERG: Yes.

JASON SCHAPEROW: The other thing was an
invitation to come down to the Ops Center yesterday to,
as a city reaction analyst. That's kind of a, you know,
expert/consultant. Do I really need to be on this watch
bill? I'm really --

RICK HASSELBERG: I was told to add as many
watch standers as possible, especially sever accident
people.

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1 JASON SCHAPEROW: Yes. The reason why I
2 asked that is because, if I'm -- Yes, I can see that.
3 You've got Ed Fuller here, Mike Salay. Because if I'm
4 going to be on call as an expert, I mean, I'm going to
5 be a watch and on call? That's --

6 RICK HASSELBERG: Hey, times are tough.
7 But --

8 JASON SCHAPEROW: All right. All right.
9 Well I was talking to --

10 RICK HASSELBERG: -- if we have --

11 JASON SCHAPEROW: -- Charlie this week --

12 RICK HASSELBERG: -- the right people on
13 watch, we don't have to have as many people on call.

14 JASON SCHAPEROW: All right. Well I was
15 talking to Charlie last night. And they called him --
16 He was, I guess he --

17 RICK HASSELBERG: Yes.

18 JASON SCHAPEROW: -- was assigned to the
19 later evening watch. They called him several times last
20 night.

21 RICK HASSELBERG: This is what happens when
22 you're an expert.

23 JASON SCHAPEROW: All right.

24 RICK HASSELBERG: And if you're here, we
25 don't have to call you at home.

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1 JASON SCHAPEROW: Yes. I kind of object
2 to be on the midnight watch tonight. I just, that's
3 going to kill me. It's going to exhaust me for the rest
4 of the week.

5 RICK HASSELBERG: Well, you ought to go home.

6 JASON SCHAPEROW: No, I'm listed on the watch
7 here for -- What am I going to do, go take a nap now?

8 RICK HASSELBERG: Yes.

9 JASON SCHAPEROW: I just got up.

10 RICK HASSELBERG: Well, I --

11 JASON SCHAPEROW: I'm not like a -- If I
12 was on midnight every night that week, then that's fine.
13 But I'm not. I'm on the night the whole week on midnight.
14 It's going to throw my whole sleeping schedule off.
15 And I'm --

16 RICK HASSELBERG: How can I help you, sir?

17 JASON SCHAPEROW: Can you move somebody else
18 into that spot?

19 RICK HASSELBERG: Well, whoever I do it to
20 is going to have the same problem.

21 JASON SCHAPEROW: Well, if I'm your spent
22 fuel pool expert -- If Charlie and I are the only two
23 spent fuel pool people in the whole agency, and you've
24 got me exhausted, that's not going to be very helpful.
25 I'm just making a pitch to see if you can move me.

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1 I don't know if you can or not.

2 RICK HASSELBERG: I'll look and see what
3 I can do.

4 JASON SCHAPEROW: I'm not asking to be taken
5 off of it.

6 RICK HASSELBERG: I understand.

7 JASON SCHAPEROW: My manager asked that.
8 I'm asking to be moved to a different slot.

9 RICK HASSELBERG: I understand. I'll see
10 what I can do.

11 JASON SCHAPEROW: All right.

12 RICK HASSELBERG: All right.

13 JASON SCHAPEROW: The other thing I wanted
14 to say is -- If I could just bend your ear for one more
15 minute? When I was there yesterday I was told that the
16 Ops Center was kind of functioning, it looks they've
17 been functioning since sometime on what, Sunday or
18 Saturday?

19 RICK HASSELBERG: Friday morning.

20 JASON SCHAPEROW: And I was, I said, well
21 let me see the listing of events. There wasn't one.
22 I said, well where am I going to find it? It's in the
23 log. I'm like, I'm going to look through three days
24 of logs to find the events and the time they happened?
25 I think we really --

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1 I make a pitch to have a list of events and
2 the times they happened. Even if we're not, have exact
3 times that we're not sure. But, you know, we can't predict
4 anything if we have no idea what happened and when.

5 RICK HASSELBERG: Sir, we don't know what
6 happened and when.

7 JASON SCHAPEROW: Okay.

8 RICK HASSELBERG: We're hearing things hours
9 after.

10 JASON SCHAPEROW: That's fine. Put it,
11 write it down, and have it listed. The list I was greeted
12 with yesterday had not -- I'm sorry, I don't feel like
13 I'm being heard. The list I was greeted with yesterday
14 didn't have any times, not even approximate listed on
15 it.

16 RICK HASSELBERG: Okay.

17 JASON SCHAPEROW: It was completely
18 unhelpful.

19 RICK HASSELBERG: Okay.

20 JASON SCHAPEROW: We need a list of, for
21 each reactor separately. Not all on one sheet. Each
22 reactor we need a separate list with the time of each
23 event. Like, when the hydrogen burns happened, when
24 they vented. Even if it's only within a few hours, just
25 -- Does that make any sense to you?

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1 RICK HASSELBERG: Yes, it is. I'm --

2 JASON SCHAPEROW: I know I --

3 RICK HASSELBERG: I'm dealing with a small
4 group of people who are doing the best they could. So
5 when you were here, you didn't have enough information
6 to create that list, did you?

7 JASON SCHAPEROW: I had more information
8 in my office.

9 RICK HASSELBERG: Okay.

10 JASON SCHAPEROW: There may have been enough
11 information. But I was working on some kind of a thing
12 for the Chairman.

13 RICK HASSELBERG: Yes. That's the problem.
14 We're all working, and they're grabbing us and throwing
15 us -- I could --

16 JASON SCHAPEROW: Twenty-four hours a day?

17 RICK HASSELBERG: Yes. And I could bring
18 more people in, but then there would be more people saying
19 that I, you know, got to go home and sleep.

20 JASON SCHAPEROW: How about bring one person
21 in for eight hours, and his sole job is to go through
22 the logs and make a list of what happened at each plant
23 and when.

24 RICK HASSELBERG: That sounds like fine job.
25 I may have an extra body who could do that.

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1 JASON SCHAPEROW: Yes. I don't mean it to
2 be --

3 RICK HASSELBERG: No, no. Listen, I'm doing
4 the best I can.

5 JASON SCHAPEROW: Yes, yes.

6 RICK HASSELBERG: I'm on my fifth shift here,
7 so --

8 JASON SCHAPEROW: Oh, wow.

9 RICK HASSELBERG: -- I'm a little sleepy.

10 JASON SCHAPEROW: Yes, I'll bet you are.
11 I'm just trying to avoid that.

12 RICK HASSELBERG: No. Understand. I
13 understand.

14 JASON SCHAPEROW: All right. Well I
15 appreciate your ear. I appreciate you're listening.

16 RICK HASSELBERG: And we appreciate you too.
17 I know it's not --

18 JASON SCHAPEROW: Oh, no. I --

19 RICK HASSELBERG: -- a normal thing. But
20 this is what they pay us for.

21 JASON SCHAPEROW: I'm happy to play. I just
22 -- It's mind boggling that we don't have a list of events
23 and when they happened. There was more information in
24 "The Washington Post" this morning than we had at the
25 Ops Center.

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1 RICK HASSELBERG: Well, yes. And more
2 people working for them too. Okay. I'm not going to
3 defend myself. It's a good point.

4 JASON SCHAPEROW: Yes. I don't want to put
5 you in a defensive position. I just said --

6 RICK HASSELBERG: No.

7 JASON SCHAPEROW: --well, what I think would
8 be helpful.

9 RICK HASSELBERG: I'm sure you're right.
10 But that, honestly, that's almost at this point an event
11 reconstruction thing. We're just trying to stay up with
12 the event. This historical record is going to have to
13 follow.

14 JASON SCHAPEROW: That's not historical
15 record. It's about -- I can't predict what's going to
16 happen tomorrow at that plant if I don't know what happened
17 yesterday at that plant.

18 RICK HASSELBERG: Okay.

19 JASON SCHAPEROW: That's what it's about.

20 RICK HASSELBERG: I understand. Okay.

21 JASON SCHAPEROW: Yes.

22 RICK HASSELBERG: Let me see if I can get
23 an update that will help me do that.

24 JASON SCHAPEROW: Yes. Thank you, Rick.

25 RICK HASSELBERG: Okay, buddy.

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JASON SCHAPEROW: Yes, bye.

RICK HASSELBERG: Bye.

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(CONFERENCE CALL INITIATED)

RICK HASSELBERG: Reactor Safety Team,
Hasselberg. Hello.

HEADQUARTERS OPERATIONS OFFICER: Jack
Rogge, we're transferring him to you.

RICK HASSELBERG: Jack Rogge (inaudible).
Jack?

JACK ROGGE: Yes.

RICK HASSELBERG: Rick Hasselberg.

JACK ROGGE: Hey, Rick. I'm in at 3:00.
I was just getting ready to take a nap. And I thought
I'd just check in and see what's going on. Are you guys
swamped? Or do you have a minute to talk?

RICK HASSELBERG: I'm not in the best
position to tell you, because I've been running around
coordinating. We're talking with Jim Tripp and Tony
Ulses right now. So we can probably catch you up as
soon as we get off that phone.

JACK ROGGE: Just that, did they actually
have a spent fuel pool fire?

RICK HASSELBERG: Yes, it sounds like it.
That's what I'm hearing now. They had a hydrogen problem,
which would only be, you know, the result of overheated
spent fuel.

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1 JACK ROGGE: That's in Unit 4?

2 RICK HASSELBERG: That's my understanding.
3 They're talking about that right now, so I maybe incorrect.
4 But that's my inference.

5 JACK ROGGE: I'll just call back in about
6 15 minutes. Does that sound good?

7 RICK HASSELBERG: Yes, sir. That will be
8 good.

9 JACK ROGGE: Okay.

10 RICK HASSELBERG: Okay, Jack. Bye.
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(CONFERENCE CALL INITIATED)

RICK HASSELBERG: RST.

FEMALE PARTICIPANT: Hi, I'm calling because I'm Bill Ruland's secretary. And he wanted to check to see that he's supposed to be in the Incident Response Center tomorrow from 3:00 to 11:00.

RICK HASSELBERG: Who's secretary?

FEMALE PARTICIPANT: Bill Ruland, William Ruland.

RICK HASSELBERG: Bill Ruland? Let me check the schedule.

FEMALE PARTICIPANT: Okay. Thank you.

RICK HASSELBERG: Hang on, please. What time do you think he's coming?

FEMALE PARTICIPANT: He's a 3:00 to 11:00.

RICK HASSELBERG: 3:00 tomorrow is Bill Ruland, 3:00 to 11:00 on the 16th? Yes. The schedule shows 3:00 to 11:00 on the 16th for Bill Ruland.

FEMALE PARTICIPANT: All right. Thank you very much.

RICK HASSELBERG: You're welcome.

FEMALE PARTICIPANT: Bye, bye.

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Official Transcript of Proceedings
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RST Coordinator Audio Files

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4 JAPAN'S FUKUSHIMA DAIICHI
5 RST COORDINATOR AUDIO FILES

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7 WEDNESDAY,
8 MARCH 16, 2011

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(CONFERENCE CALL INITIATED)

RICK HASSELBERG: Reactor Safety Team,
Hasselberg.

CAPTAIN KORBUT (phonetic): Yes, this is
Captain Eric Korbuto from the United States Forces, Japan.
I'm trying to get a hold of Dave Skeen.

RICK HASSELBERG: Yes, Captain. One second,
please.

CAPTAIN KORBUT: Hey, I can just pass you
the information. I got the data on that last part --

DAVE SKEEN: This is Dave Skeen, Reactor
Safety Team.

CAPTAIN KORBUT: Sir, Captain Korbuto.

DAVE SKEEN: Yes, sir.

CAPTAIN KORBUT: Just trying to give you
the information on that last pump you wanted.

DAVE SKEEN: Okay.

CAPTAIN KORBUT: It's 150 psi at 500 gallons
per minute.

DAVE SKEEN: 150 psi --

CAPTAIN KORBUT: At 500 gallons a minute.

DAVE SKEEN: At 500 gpm. Okay, got you.

CAPTAIN KORBUT: Okay? And that is a --

DAVE SKEEN: Thank you. Appreciate that.

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1 CAPTAIN KORBUT: And that system series
2 number is a S18500.

3 DAVE SKEEN: S18500.

4 CAPTAIN KORBUT: Yes.

5 DAVE SKEEN: Okay. And that's the pump for

6 --

7 CAPTAIN KORBUT: The jetting pump. The jet
8 pump.

9 DAVE SKEEN: Okay, thank you.

10 CAPTAIN KORBUT: All right?

11 DAVE SKEEN: All right. I appreciate it.

12 Thank you, sir.

13 CAPTAIN KORBUT: Yes.

14 DAVE SKEEN: All right. Bye.

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(CONFERENCE CALL INITIATED)

MIKEMORLING: (phonetic): RST, Mike Morling.

This is a recorded line.

JEFF TEMPLE: Hi, Jeff Temple over in the Liaison Team room. I'm patching through a call from Naval Reactors. He's got a couple of questions for you guys.

MIKE MORLING: Okay.

JEFF TEMPLE: Thank you.

MIKEMORLING: Hold on a second. What number are you calling?

JEFF TEMPLE: I need to get it over to -- Okay. Or can you just bring somebody over to the phone at your end?

MIKE MORLING: Okay.

JEFF TEMPLE: Thanks, appreciate it.

MIKE MORLING: Hey, you guys, they want to talk to Naval Reactors here. Hold on. Hello.

TOM ROBERTS: Hello.

MIKE MORLING: Hi, Mike Morling with the RST Team. Can you hold on, please?

TOM ROBERTS: Yes.

MIKE MORLING: Can you still hear me?

TOM ROBERTS: Yes.

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1 MIKE MORLING: Okay, thanks. We've got a
2 group here, Pat Hiland, Eva Cann (phonetic) and myself.
3 Go ahead.

4 TOM ROBERTS: Okay, yes. This is Tom Roberts,
5 Naval Reactors. Pat, I've met you before. I recognize
6 the -- But we're here at Naval Reactors ECC, trying
7 to figure out what might be going on tonight, in terms
8 of, you know, progress reports.

9 Because they were banning the facility.
10 And then they've apparently come back. I just wanted
11 to check in with you folks. What are you saying at the
12 site that is the priorities? And what are you looking
13 at as what you think the most likely immediate risks
14 are?

15 MIKE MORLING: That's a long list.

16 TOM ROBERTS: Sure.

17 EVA CANN: Ask the questions again, so we
18 can see what you're talking --

19 MIKE MORLING: Yes.

20 TOM ROBERTS: As far as priorities --

21 EVA CANN: Water.

22 TOM ROBERTS: Agreed. Okay. (Inaudible).

23 MIKE MORLING: Number one is water.

24 EVA CANN: Anywhere they can get it.

25 MIKE MORLING: They are using helicopters

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1 with a dump bank. We saw pictures of that on the NHK
2 feed. GE is sending emergency diesel generators over,
3 big one. They require a C-5 to haul them.

4 PATHILAND: But not necessarily to the site.

5 MIKE MORLING: Not necessarily to the site.

6 PAT HILAND: They're five megawatt
7 generators.

8 MIKE MORLING: Five megawatts -- Geez.

9 PAT HILAND: Two hundred tons apiece.

10 MIKE MORLING: And they're going to try,
11 I think they're going to try and feed the grid with that.

12 EVA CANN: What was the other question?
13 You said priorities and --

14 TOM ROBERTS: Right. I think the questions
15 that I was handed when I made this call was, it appeared,
16 to at least somebody here, that the prioritization was
17 to restore electrical power by using the existing diesel
18 power pumps they have. And once you state it, it seems
19 logical that the priority ought to be getting water in,
20 and --

21 EVA CANN: Well if you can use the generators
22 to power the pumps, that works. Because that's how you
23 can get, one way to get water into what we need.

24 TOM ROBERTS: Which pumps would they use
25 the electricity on?

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1 EVA CANN: I guess it depends on which pumps
2 they're using now. If they can something in the building,
3 we would want them to hook into one of the low pressure
4 systems.

5 But we're not sure they're able to do that.
6 So they had, I think at one point they were using fire
7 trucks to pump. If they had some other related pumps,
8 that would be nice.

9 Provided there's no water to, like the spent
10 fuel pool, if they're still dumping the seawater with
11 one set, it would be nice if they had something else
12 to help maintain level in the spent fuel pool.

13 PAT HILAND: Tom, go ahead. We can share
14 that we've been here. And I can't, I wish I knew the
15 source. I neglected to write it down. But the
16 conversation where the U.S. Army's provided a water cannon
17 truck.

18 And, you know, the vision of that is that
19 the water cannon truck could be used to shoot into the
20 Unit 4 in the spent fuel pool. And then we were talking
21 on the phone with people in Japan. And they mentioned
22 that.

23 TOM ROBERTS: Okay. I understand that we've
24 got six pumps pushed up there.

25 EVA CANN: You do?

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1 TOM ROBERTS: And there were a total of six
2 pumps, that last I heard was 8 o'clock our time. And
3 two of them were sitting at, I think it was an Air Force
4 base near Tokyo, and the other four were en route. And
5 there was some questions about transferring them to
6 Japanese control.

7 EVA CANN: Those four pumps, were those the
8 same pumps that DTRA said that they had sitting on the
9 runway yesterday?

10 TOM ROBERTS: That's possible.

11 EVA CANN: Okay. So you've got four pumps
12 that were starting up to the site. And when was that?

13 TOM ROBERTS: That's 8 o'clock last night
14 was the last report I heard.

15 EVA CANN: Is that eastern?

16 TOM ROBERTS: That was eastern, right.

17 EVA CANN: Understand. And what type of
18 pumps are they?

19 TOM ROBERTS: I don't have that information
20 right now.

21 EVA CANN: Understand, okay.

22 TOM ROBERTS: Okay. So the priority, get
23 water on the core. There's this helo --

24 EVA CANN: Spent fuel pool.

25 TOM ROBERTS: The spent fuel pool. Okay.

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1 EVA CANN: Both. Right now they need to
2 have water in both places. And they have -- Understand
3 that there's six units, 1, 2, 3, need to get water in
4 the core.

5 Do we need 5 and 6? Yes, 5 and 6, I think
6 they're offloaded, right? 4, 5 and 6 are in the pool,
7 yes. So they need to have water on 1, 2, 3, 5 and 6
8 core. All the units need water in their spent fuel pool.

9 And the one thing that we have not heard
10 is, there's a common spent fuel pool that is independent
11 of the six reactor buildings. And they should be looking
12 at level in those, in that pool as well.

13 It's a much larger pool than the ones at
14 the units. We're not as concerned about that pool.
15 Because the fuel in them should be relatively cold.
16 But at some period of time, since there's no makeup,
17 they may, that building may become a problem.

18 TOM ROBERTS: Okay. So there's a lot of
19 priorities. Do you think that the facility is asking
20 for the help that they should be asking for? And do
21 you (inaudible) see something that's concerning to you
22 that you don't think they're working on?

23 EVA CANN: We, in this room would not be
24 able to communicate what the Agency's position on that
25 is. But we could talk to our management and see what

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1 they, what their, what the Agency's position is on that
2 and get back to you, if you'd like.

3 TOM ROBERTS: Yes, okay. Yes, I think I'd
4 appreciate if you do that. Let's see, what's the best
5 way to reach --

6 EVA CANN: Yes, what's your phone number,
7 Tom?

8 TOM ROBERTS: Yes, let me -- Hold on I'll
9 find what the best number is.

10 EVA CANN: Okay.

11 TOM ROBERTS: Okay, you still there? Still
12 there?

13 EVA CANN: Yes. Go ahead.

14 TOM ROBERTS: (b)(6)

15 EVA CANN: What I have is (b)(6)

16 TOM ROBERTS: Right.

17 EVA CANN: All right. We'll give you a call
18 back.

19 TOM ROBERTS: Okay, thank you.

20 EVA CANN: Thank you. Bye.

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(CONFERENCE CALL INITIATED)

RECORDING: Thank you. You will now be added to the conference.

DAVE HARMON: Dave Harmon, joining the bridge. Is Bettis (phonetic) on line?

MALE PARTICIPANT: Yes. Bettis is on line.

DAVE HARMON: This is Dave Harmon, I'm with the NRC in their EOC. I just overheard a discussion about one of the questions that they're asking. And I think the lab, you guys can help me a little bit with this one.

(b)(5)

MALE PARTICIPANT: If we don't have exactly the data from the material technology coming in here. But definitely yesterday, and the day before, there was a lot of discussion that a zirc fire would be white hot in appearance.

And if there was any water around, that the interaction with that would produce sparks. And so, it would appear, in localized areas, not a very large

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1 thing, or encompassing the entire pool.

2 But it would almost look like a sparkler.

3 I mean, on much (inaudible) a sparkler. But not like
4 the entire pit would have that appearance. But at
5 different locations.

6 DAVE HARMON: That's the type of discussion
7 I remember hearing here yesterday. Do we have that written
8 down anywhere?

9 MALE PARTICIPANT: I certainly don't. But
10 we can get that from the materials data sheet.

11 DAVE HARMON: Okay. And was it Bettis, or
12 was it Capel (phonetic) that was leading that discussion
13 about the zirc fire, white hot with sparkling water
14 reaction? Or hydrogen burn off?

15 MALE PARTICIPANT: Well Bruce Kinsend
16 (phonetic) was the one providing that description when
17 I was here. If others provided additional discussion,
18 I'm not sure.

19 DAVE HARMON: Okay. If you could write that
20 up for me, I will run with the oral. It's white hot
21 with sparkler like sparking reaction of there's water
22 present.

23 MALE PARTICIPANT: Yes.

24 DAVE HARMON: Okay. I'll take that and run
25 with it. But if you could give me that written down,

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1 or anything more written down, push it to NR to push
2 to me, I'd appreciate it.

3 MALE PARTICIPANT: Okay, will do.

4 DAVE HARMON: Thank you.
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(CONFERENCE CALL INITIATED)

FRANK OWENS (phonetic): RST Coordinator.

CINDY PETERSON: Hi, this is Cindy Peterson
in Region III.

FRANK OWENS: Hi, Frank Owens.

CINDY PETERSON: Hi, Frank. I was wondering,
we haven't heard anything about the seventh spent fuel
pool, which, from various reports, it sounds like there's
a common pool.

FRANK OWENS: There is a common pool.

CINDY PETERSON: And we're just curious,
you know, we're not trying to interfere. We're just
curious. We haven't heard anything on the status reports
of the condition of that pool.

FRANK OWENS: Let me take that request and
we'll give you a call back. What's the number for you?
Is it just a regular desk number?

CINDY PETERSON: 630-829-9658.

FRANK OWENS: 829-8658?

CINDY PETERSON: 9658.

FRANK OWENS: I'm sorry, 9658, Cindy
Peterson.

CINDY PETERSON: Yes.

FRANK OWENS: Okay. Can you give us just

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1 a little bit of time on this? Because we've just finished
2 turnover. And we're trying to figure out what we're
3 doing for 11:00 here.

4 CINDY PETERSON: It's not a rush. And I'm
5 not, like I said, I'm not trying to interfere, or do
6 anything to, you know, cause you guys to slow down.
7 This is not a priority request. This is just --

8 FRANK OWENS: Status of shared fuel pool.

9 CINDY PETERSON: Yes.

10 FRANK OWENS: Okay. I'll find something
11 out for you, and we'll get back to you either by phone
12 or email, one or the other.

13 CINDY PETERSON: Okay, thank you.

14 FRANK OWENS: Okay. Thanks, Cindy. Bye.

15 CINDY PETERSON: Bye.

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(CONFERENCE CALL INITIATED)

FRANK OWENS: RST Coordinator, Frank Owens.

HOWIE: Hey, Frank, Howie.

FRANK OWENS: Howie.

HOWIE: I got a Bechtel guy for Jim Shea.

Is he back there?

FRANK OWENS: Jim Shea? We're going to find him. Where's the Bechtel guy calling from?

HOWIE: I don't know. Well I can get him back, get his contact information, and just give it to you.

FRANK OWENS: Yes, please.

HOWIE: Okay, I'll do that. I'll yell at you in a minute with it.

FRANK OWENS: Send it to RST01, please?

HOWIE: I will.

FRANK OWENS: Thank you.

HOWIE: All right.

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1
2 (CONFERENCE CALL INITIATED)

3 DONNA WILLIAMS: NRC REactor Safety Team.

4 This is Donna Williams.

5 ALAN BLAMEY: Hello.

6 DONNA WILLIAMS: Hello.

7 ALAN BLAMEY: Yes. I was looking for Mike
8 Brown in the Reactor Safety Team.

9 DONNA WILLIAMS: Mike Brandon?

10 ALAN BLAMEY: Mike Brown.

11 DONNA WILLIAMS: Mike Brown. Hold on one
12 moment.

13 ALAN BLAMEY: Yes. Thanks.

14 DONNA WILLIAMS: Who shall I tell him is
15 calling?

16 ALAN BLAMEY: This is Alan Blamey calling.

17 DONNA WILLIAMS: Okay, one moment.

18 MIKE BROWN: This is Mike Brown.

19 ALAN BLAMEY: Hey, Mike, Alan calling.

20 MIKE BROWN: Hey, Alan.

21 ALAN BLAMEY: (b)(5)

22 (b)(5)

23
24 MIKE BROWN: Oh, yes, yes.

25 ALAN BLAMEY: Is there a lot of debris or

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1 anything down there? Can it get fairly close?

2 MIKE BROWN: Well, there's debris there.
3 But they're supposedly having bulldozers move some of
4 the debris away.

5 ALAN BLAMEY: Oh, okay.

6 MIKE BROWN: So we're hoping they can get
7 close. But, you know, right now we don't know for sure.

8 ALAN BLAMEY: Okay. We're still looking
9 at it. And the largest one we found in the United States
10 is 187 feet high.

11 MIKE BROWN: Oh, okay.

12 ALAN BLAMEY: And I have somebody checking
13 into that now, to see if we can get some more specs on
14 it.

15 MIKE BROWN: Okay.

16 ALAN BLAMEY: But I would certainly think
17 that in Asia they would have something.

18 MIKE BROWN: Right, right. Actually, the
19 187 feet is really the more thing we were looking at.
20 You know, that if they -- Because like, most common
21 ones are like 93 feet.

22 ALAN BLAMEY: Right.

23 MIKE BROWN: And so 187 feet, well that
24 actually might work. So we can, you know, I appreciate
25 it. I'll turn that over to Chuck. And then what we'll

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1 do is, we'll get John, or Joe Young, who's our contact
2 over in Asia in the U.S. Embassy, to, you know, contact
3 the Japanese. And see if the Japanese have one over
4 there. Because, I mean, they have high rises. We're
5 not reinventing the wheel here.

6 ALAN BLAMEY: That's right.

7 MIKE BROWN: So we're just trying to --

8 ALAN BLAMEY: Do you want --

9 MIKE BROWN: We were looking at options.

10 ALAN BLAMEY: Okay. Do you want us to do,
11 I mean, we can put a simple sketch or something together.
12 And maybe do something like that, a paragraph, or --

13 MIKE BROWN: No. I mean, if it's easy, you
14 know, that's fine. If not, I wouldn't worry about it
15 a whole lot.

16 ALAN BLAMEY: Okay.

17 MIKE BROWN: You know, I'll turn over the
18 187 feet to Chuck. And if he's got more questions he
19 can shoot you an email.

20 ALAN BLAMEY: Yes. And maybe we will send
21 you an email. Because there were a couple of other thoughts
22 we had as well. I mean, I heard --

23 MIKE BROWN: Oh, okay.

24 ALAN BLAMEY: I heard you were thinking about
25 put it in sand as well as water, or cement.

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1 MIKE BROWN: Right.

2 ALAN BLAMEY: Okay?

3 MIKE BROWN: Yes.

4 ALAN BLAMEY: And the other thing you may
5 want to consider too is mixing boron in with it.

6 MIKE BROWN: Right, right. We actually
7 thought about pumping a dolomite solution in there too.

8 ALAN BLAMEY: And what does that do?

9 MIKE BROWN: Well, it's what they used at
10 Chernobyl. And it just has some neutron absorption
11 capabilities --

12 ALAN BLAMEY: Oh, okay.

13 MIKE BROWN: -- to dampen it. And it's kind
14 of like a concrete. It's just a different -- Instead
15 of just, you know, your regular concrete mixture, dolomite
16 is added in there. It's like a calcium carbonate type
17 thing that has some characteristics to shield and reduce
18 radioactivity.

19 ALAN BLAMEY: Okay. That sounds good. Have
20 they looked at using fire boats to cool the pools at
21 all?

22 MIKE BROWN: Well, you know, the funny thing,
23 we've -- It's one of our options. It's option B --

24 ALAN BLAMEY: Okay.

25 MIKE BROWN: -- you know. So we are looking

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1 at that. We are, you know, we had some conflicting
2 information. I guess Jim Shea was thinking, after he
3 talked to some Duke people, that they had a nozzle from
4 B5B that designed to shoot a half a mile. But that's
5 not the case. But, yes, that's, you know, we're looking
6 at the fire hose option. The problem is that they're
7 not that close to the water. So that it's very hard
8 to --

9 ALAN BLAMEY: Oh, okay. I really couldn't
10 tell exactly how close they were.

11 MIKE BROWN: Yes. It's about 700 meters.
12 So that's like about a third of a mile or so.

13 ALAN BLAMEY: Okay.

14 MIKE BROWN: All right.

15 ALAN BLAMEY: Okay. Well we'll finish
16 working up some things here, just very briefly.

17 MIKE BROWN: All right.

18 ALAN BLAMEY: Probably not much more than
19 a paragraph.

20 MIKE BROWN: Well, if you want to, you email
21 it to RST --

22 ALAN BLAMEY: Hold on a second. Let me grab
23 a piece of paper. Okay, R-S-T.

24 MIKE BROWN: Yes. Romeo, Sierra, Tango,
25 zero 1.

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1 ALAN BLAMEY: Number 1.
2 MIKE BROWN: No, zero 1.
3 ALAN BLAMEY: Zero 1.
4 MIKE BROWN: Yes. Then dot.
5 ALAN BLAMEY: Dot.
6 MIKE BROWN: And then H-O-C.
7 ALAN BLAMEY: H-O-C. So that would be Romeo,
8 Sierra, Tango, zero 1, dot H-O-C.
9 MIKE BROWN: Correct. And then at nrc.gov.
10 ALAN BLAMEY: Yes.
11 MIKE BROWN: Okay. Appreciate it, Alan.
12 ALAN BLAMEY: Okay. Thanks.
13 MIKE BROWN: Hey, have a great day.
14 ALAN BLAMEY: You too. So long.
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(CONFERENCE CALL INITIATED)

GAUTHRY (phonetic): (Inaudible) Web Services.

GREG SCHOENEBECK: Hey, is this Gauthry (phonetic).

GAUTHRY: Hey, Brian, yes.

GREG SCHOENEBECK: No, it's Greg Schoenebeck.

GAUTHRY: Hey, Greg, how are you?

GREG SCHOENEBECK: Good. How are you?

GAUTHRY: Good, good.

GREG SCHOENEBECK: I don't know if you're in this capacity anymore. I just, when I was dialing I just remember you kind of changed places. But how do I go about maybe getting a Sharepoint site for this Japanese event?

You know, I have my own site. And I don't know if I just kind of create a workspace from my own site. But then how do people access that? Do you know what I mean?

GAUTHRY: Is this for the current events

--

GREG SCHOENEBECK: Exactly.

GAUTHRY: -- that's happening, right? If

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1 this is for the entire office, you could either post
2 it on the current NRR main page.

3 GREG SCHOENEBECK: Okay.

4 GAUTHRY: But if it is something that is
5 specific, and you would like to keep it separate, then
6 we could publish a link on the NRR main page. And it
7 could be off of, it could be one of those special projects
8 that we have.

9 GREG SCHOENEBECK: Okay.

10 GAUTHRY: NRR special projects are one of
11 those. But there would be a link right on top.

12 GREG SCHOENEBECK: I don't know if it's
13 anything we want to, you know, if we have the, if we
14 want to publish it, make it public. I think maybe start
15 with something that would be internal use that, just
16 that, you know, I just kind of want -- We're getting
17 so much information, I just want a kind of a storage
18 area, so I could start storing some of these diagrams,
19 and these, you know, all this traffic, all this stuff
20 that's coming in here.

21 GAUTHRY: Oh, okay. Okay.

22 GREG SCHOENEBECK: If it is something --
23 If we can link the too, right. So if we have an NRR,
24 you know, response to this Sharepoint site, then we can
25 --

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1 GAUTHRY: Yes. If you want I can go ahead
2 and create one.

3 GREG SCHOENEBECK: That would be perfect.
4 You know --

5 GAUTHRY: A site right under the NRR special
6 projects.

7 GREG SCHOENEBECK: Ah, you know, that would
8 be perfect. Because, we're kind of swamped over here.
9 And I'm kind of getting at the point where, you know,
10 we got so much stuff coming in here. And if you can
11 give us any support on that --

12 GAUTHRY: Yes, sure, sure. Send it our way.
13 And we'll do whatever that, you know, it needs, I mean,
14 whatever it takes, you know.

15 GREG SCHOENEBECK: Okay.

16 GAUTHRY: Whatever needs to be done, we'll
17 go put it together. And you would be our primary contact?

18 GREG SCHOENEBECK: Yes.

19 GAUTHRY: The owner of the -- And what would
20 you want the --

21 GREG SCHOENEBECK: There's going to be
22 several owners. They're going to be in the coordination
23 kind of role.

24 GAUTHRY: Okay.

25 GREG SCHOENEBECK: But I can get you those

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1 names.. I can email them to you.

2 GAUTHRY: Sure.

3 GREG SCHOENEBECK: If you want?

4 GAUTHRY: That would be great. And also,
5 what would you want the site to be called?

6 GREG SCHOENEBECK: I think it's just going
7 to be the Fukushima -- Well let's see. Yes, we're doing
8 the even here. Let me make sure I got my language correct
9 here. Boy, oh, boy. Let's see. What do we want to call
10 it exactly here? I would just call it the NRC Response
11 to the Fukushima -- I think --

12 GAUTHRY: Reactor incident?

13 GREG SCHOENEBECK: Reactor incident.
14 Exactly, exactly.

15 GAUTHRY: Okay. NRC Response --

16 GREG SCHOENEBECK: Yes, to the Fukushima
17 event.

18 GAUTHRY: -- response to the Fukushima
19 reactor event.

20 GREG SCHOENEBECK: Yes, exactly. Exactly.

21 GAUTHRY: Okay.

22 GREG SCHOENEBECK: And then, you know, stuff,
23 you know, I can get, you know, I get set up where I just
24 have kind of like even reports. Something that would
25 have just like, you know, folders that have, you know,

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1 that I could put even reports in there, plant diagrams,
2 pictures. You know, just stuff that, you know, I don't
3 know, that we can just start putting some of this
4 information.

5 GAUTHRY: Sure, sure. Yes. If you want us
6 to, I mean, if you want to send all the information to
7 us --

8 GREG SCHOENEBECK: Okay.

9 GAUTHRY: We'll start populating it. And
10 if you don't like it, we can move things around.

11 GREG SCHOENEBECK: Exactly. Perfect. And
12 if you can, you know, and if you can have like an area
13 that will have blogs that we kind of keep on like updating
14 like what we're doing, you know, kind of stuff like that.

15 GAUTHRY: Sure, sure.

16 GREG SCHOENEBECK: I think that's probably
17 going to be something that's really good. I'll start
18 sending you some information then.

19 GAUTHRY: All right.

20 GREG SCHOENEBECK: And I'll be doing that
21 rather quickly. And, how long are you here for today?

22 GAUTHRY: I should be here until 5:30 p.m.

23 GREG SCHOENEBECK: Until 5:30 p.m. Oh,
24 perfect, perfect. So I've got you for an hour or so.

25 GAUTHRY: Yes. And for now I'll just go

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1 make you the owner. You will be the prime test contact
2 for us --

3 GREG SCHOENEBECK: Okay.

4 GAUTHRY: -- for this particular site.

5 GREG SCHOENEBECK: Okay.

6 GAUTHRY: And since this is a really large
7 name --

8 GREG SCHOENEBECK: Yes.

9 GAUTHRY: When you click on to the site,
10 it may say NRC's Response to Fukushima Reactor Event.
11 But the link would be Japan event.

12 GREG SCHOENEBECK: Yes.

13 GAUTHRY: Japan, underscore event.

14 GREG SCHOENEBECK: Yes, yes.

15 GAUTHRY: Okay.

16 GREG SCHOENEBECK: And then, I think, you
17 know, also -- I don't know. Will there be opportunity
18 to kind of tell, like do an NRC, just kind of a information
19 notice that we're creating this site? And that we'll
20 be populating it shortly? Just to kind of let people
21 know that it's coming, you know.

22 GAUTHRY: Oh, once you have, once the --
23 I mean, by close of business today whatever we have --

24 GREG SCHOENEBECK: Okay.

25 GAUTHRY: Would you -- Okay. So you want

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1 me to send out a PMD notice to, not just NRR, but everybody
2 else? Or is it just NRR?

3 GREG SCHOENEBECK: I think I would probably
4 like, and say, you know, it would go out probably like
5 an agency wide type of an NRC type --

6 GAUTHRY: Of announcement?

7 GREG SCHOENEBECK: Yes.

8 GAUTHRY: Okay.

9 GREG SCHOENEBECK: If possible. I think
10 --

11 GAUTHRY: But we are putting some
12 information together --

13 GREG SCHOENEBECK: Yes, yes.

14 GAUTHRY: Okay. Do you see the EDO's email
15 that just came out now? There were -- Did you get a
16 chance to read that?

17 GREG SCHOENEBECK: I did not. I don't have
18 my personal email.

19 GAUTHRY: Oh, okay.

20 STEVE: It's really weird in the Ops Center.
21 It's hard to get to my own stuff.

22 GAUTHRY: Oh, okay. Okay. And they did
23 have some materials and briefing materials, you know,
24 of the Chairman. And all the questions and the
25 commission's hearing room, and everybody --

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1 GREG SCHOENEBECK: Oh, they did.

2 GAUTHRY: Yes. At the Capitol Hill
3 yesterday.

4 GREG SCHOENEBECK: Okay.

5 GAUTHRY: All that information is published
6 on the main NRR site.

7 GREG SCHOENEBECK: Okay.

8 GAUTHRY: The three links. So it would be
9 something in that order, but not coming from the EDO.

10 GREG SCHOENEBECK: Okay.

11 GAUTHRY: But I'll pass this on to our
12 communications specialist. I don't think PMD, you know,
13 is the right avenue for this.

14 GREG SCHOENEBECK: Okay. Right.

15 GAUTHRY: She might be able to suggest
16 something different. And if need be it will go right
17 out of EDO.

18 GREG SCHOENEBECK: Okay, okay. Perfect,
19 perfect. Okay. Okay. I think that should do it. So
20 for now let me get this straight to start sending you
21 information that we're thinking about putting it on the
22 site then.

23 GAUTHRY: Oh, okay.

24 GREG SCHOENEBECK: Is that --

25 GAUTHRY: Yes.

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1 GREG SCHOENEBECK: Okay.

2 GAUTHRY: Perfectly all right, yes. And
3 then I'll start, I'll contact --

4 GREG SCHOENEBECK: Okay.

5 GAUTHRY: -- Christine to get what this email,
6 the verbage and everything for the letter out.

7 GREG SCHOENEBECK: Perfect, perfect,
8 perfect.

9 GAUTHRY: All right.

10 GREG SCHOENEBECK: And then, let's --
11 You're going to be starting to see some weird emails
12 from like an RST. That's like the Headquarters Operations
13 Office, like a email address.

14 GAUTHRY: HOO? It's not HOO, right?

15 GREG SCHOENEBECK: No. Well, it will be
16 like RST01.hoc, something like that.

17 GAUTHRY: Okay, okay, okay. Yes.

18 GREG SCHOENEBECK: You'll see some weird
19 stuff. So that's probably myself, then.

20 GAUTHRY: Okay, okay.

21 GREG SCHOENEBECK: Okay?

22 GAUTHRY: All right.

23 GREG SCHOENEBECK: All right, Gathry.

24 GAUTHRY: All right. Thank you.

25 GREG SCHOENEBECK: If you have any questions,

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1 just --

2 GAUTHRY: Can I call you at this number?
3 Is this your cell phone?

4 GREG SCHOENEBECK: This is the --

5 GAUTHRY: No, it's not.

6 GREG SCHOENEBECK: I can probably give you
7 my cell phone. It's probably more direct in case you
8 get routed.

9 GAUTHRY: Okay.

10 GREG SCHOENEBECK: And that is (b)(6)

11 GAUTHRY: (b)(6)

12 GREG SCHOENEBECK: (b)(6)

13 GAUTHRY: (b)(6)

14 GREG SCHOENEBECK: (b)(6)

15 GAUTHRY: (b)(6)

16 GREG SCHOENEBECK: (b)(6)

17 GAUTHRY: (b)(6)

18 GREG SCHOENEBECK: Okay.

19 GAUTHRY: Sure, okay.

20 GREG SCHOENEBECK: All right. Thanks a lot.

21 GAUTHRY: All right, thanks.

22 GREG SCHOENEBECK: Bye, bye.

23 GAUTHRY: Bye.

24

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RST Coordinator Audio Files

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1
2 (CONFERENCE CALL INITIATED)

3 JIM SHEA: RST, Jim Shea speaking.

4 HEADQUARTERS OPERATIONS OFFICER: Yes, this
5 is the Headquarters Operations Officer.

6 JIM SHEA: Yes.

7 HEADQUARTERS OPERATIONS OFFICER: Hey, a
8 message for Mr. Isom.

9 JIM SHEA: Jim?

10 HEADQUARTERS OPERATIONS OFFICER: Yes. He
11 has a, he left a message with John Monninger in Japan.

12 JIMSHEA: Okay, you -- Here, take the line.
13 He's right here.

14 HEADQUARTERS OPERATIONS OFFICER: Okay,
15 okay.

16 JIM ISOM: Hey, is this John?

17 HEADQUARTERS OPERATIONS OFFICER: Yes.
18 Hey, we still haven't heard from Mr. Monninger yet.
19 But I called over to the administrative assistants in
20 the ET room.

21 JIM ISOM: Okay.

22 HEADQUARTERS OPERATIONS OFFICER: Now, we
23 got a list of people over there. But we don't know who's
24 actually available and who's sleeping, or whatever, right?

25 JIM ISOM: Oh, man.

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1 HEADQUARTERS OPERATIONS OFFICER: So if you
2 -- We know John Monninger's up, because he was just
3 on a briefing.

4 JIM ISOM: Right.

5 HEADQUARTERS OPERATIONS OFFICER: So I know
6 you're going to talk to him about some other stuff.
7 But if you could, could you, when you finally hear from
8 him, could you ask him to maybe give us a list of who's
9 available? And what times are available? That might
10 help us out, so we don't fan people's phones, you know,
11 while they're sleeping, and stuff like that.

12 JIM ISOM: And who's this?

13 HEADQUARTERS OPERATIONS OFFICER: I'm John
14 Schumaker (phonetic) in the Headquarters Operations
15 Center.

16 JIM ISOM: Okay. So you want a watch list
17 from the guys at the site team?

18 HEADQUARTERS OPERATIONS OFFICER: Yes. I
19 think it might be useful.

20 JIM ISOM: Okay.

21 HEADQUARTERS OPERATIONS OFFICER: Because
22 the admin assistants over in the ET room, right next
23 to you, they don't know. They don't know who's up, who's
24 working, or anything.

25 JIM ISOM: Okay. All right. I can ask him

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1 if he returns my call, yes.

2 HEADQUARTERS OPERATIONS OFFICER: Yes.

3 And you might want to call him again. Because I'm sure
4 he's probably got messages on his phone. But it wouldn't
5 hurt to call him again.

6 JIM ISOM: All right. The (b)(6) number?

7 HEADQUARTERS OPERATIONS OFFICER: Yes.

8 (b)(6)

9 JIM ISOM: Okay.

10 HEADQUARTERS OPERATIONS OFFICER: - (b)(6)

11 JIM ISOM: All right. Thanks.

12 HEADQUARTERS OPERATIONS OFFICER: All right.

13 Thank you.

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(CONFERENCE CALL INITIATED)

RALPH LANDRY: Hello, this is Ralph Landry at the Office of New Reactors. I'm not available at the moment. Please leave a message, and I'll return your call as soon as I can. Thank you.

JOE WILLIAMS: Ralph, this is Joe Williams calling. I'm calling on behalf of the Reactor Safety Team. I'm looking to try and fill some gaps in our watch bill for the next few days.

I need a accident analyst for Sunday's swing shift. That would be 3:00 p.m. until 11:00 p.m. To give you an idea of the people that have been filling that role, Hossein Esmaili, from Research has been in that role. Jeff Circle, Ed Fuller, some of the other folks have been filling that role.

So if you believe that would be something that you could help us out with, I'd be obliged. You can contact me on my cell phone, (b)(6) Thank you very much. Bye.

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(CONFERENCE CALL INITIATED)

PETER YARSKY: You have reached the voice mail box of Peter Yarsky. I'm either away from my desk or on the phone right now. But please leave a detailed message, and I'll get back to you as soon as possible.

Thank you.

JOE WILLIAMS: Pete, this is Joe Williams calling. I'm calling on behalf of the Reactor Safety Team in the Operations Center. I'm trying to fill in a watch bill for the next few days.

And I'm finding that I have a gap for BWR Accident Analyst on Sunday on swing shift, from 3:00 p.m. until 11:00 p.m. The folks that have been filling that position, just to give you an idea, are folks like Ed Fuller, Don Dube, Hossein Esmaili, Jeff Circle, here the last few days.

If you think that this is something that you could help us out with, I'd be very much obliged if you could give me a call on my cell phone, (b)(6)

Thank you. Bye.

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(CONFERENCE CALL INITIATED)

JIM GILMER: Jim Gilmer.

JOE WILLIAMS: Jim, this is Joe Williams calling. I'm Reactor Safety Team coordinator in the Operations Center, here on Friday the 18th. I'm working on a watch bill for the next few days.

And I need a accident analyst for the swing shift on Sunday, which is from 3:00 p.m. until 11:00 p.m. If you believe this is something you can help us out with, you can call me on my cell phone, 301-514-1914.

To give you an idea of some of the other folks that have been filling this position, folks like Ed Fuller and Jeff Circle, Don Dube have been filling that position.

I've also been trying to reach Ralph Landry and Pete Yarsky, just to give you an idea of the kind of skill set and, at least in course terms that we're looking for. Again you can reach me on my cell phone,

(b)(6) Thank you, bye.

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(CONFERENCE CALL INITIATED)

KEN HART: Reactor Safety Team, Ken Hart.

HEADQUARTERS OPERATIONS OFFICER: Standby.

Transferring Leigh Trocine.

KEN HART: Leigh Trocine.

LEIGH TROCINE: Hello.

KEN HART: Hello, this is Ken Hart, Reactor Safety Team.

LEIGH TROCINE: Hi, Ken, this is Leigh Trocine, how are you?

KEN HART: Good. How are you?

LEIGH TROCINE: Good, good. I'm over at USAID kind of doing the liaison thing here. And I had spoken with someone named Roger a little bit earlier on the --

KEN HART: Roger, yes.

LEIGH TROCINE: Yes. And I was trying to get back with him to get some more information on this palletted nozzle.

KEN HART: Okay, great. Hang on.

LEIGH TROCINE: Thank you.

KEN HART: Leigh Trocine, USAID in Japan.

ROGER: Hello.

LEIGH TROCINE: Hi, Roger?

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1 ROGER: Yes.

2 LEIGH TROCINE: Hi, this is Leigh Trocine.
3 How are you?

4 ROGER: Good, good.

5 LEIGH TROCINE: Hey, listen, I did a little
6 legwork on, you know, this pallet issue. And, did you
7 ever find that email with the logistics on, you know,
8 some of the stuff they would be looking for?

9 ROGER: I was going to check it with Greg.
10 But I haven't had a chance.

11 LEIGH TROCINE: Okay. Well, I guess, I did
12 find out here that if the military is actually doing
13 that, then, you know, they would handle all that kind
14 of stuff.

15 But what I'm going to do, and I've talked
16 to the logistics people here. And what I'm going to
17 go is, I've got a point of contact at the other end,
18 an email address at the other end.

19 And then I'm going to make sure that this
20 is on the military's radar. Do we know whether or not
21 that the military is really involved in doing this?
22 I mean, you guys have been in contact with somebody,
23 right?

24 ROGER: Yes. We have military people here.
25 But --

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1 LEIGH TROCINE: Okay. So, yes. I guess,
2 what they asked for here is to confirm at least with
3 their people, that the, you know, that the military has
4 this as part of that thing. So that it, just that it
5 is on their radar.

6 ROGER: Okay.

7 LEIGH TROCINE: So I guess what I needed
8 is as much information as you can give me on this pallet.
9 I know you said it was a 400 pound pallet of nozzles.
10 Is that right?

11 ROGER: Yes. There's four of them.

12 LEIGH TROCINE: Four nozzles.

13 ROGER: That's in Atlanta.

14 LEIGH TROCINE: Okay.

15 ROGER: I could give you the address --

16 LEIGH TROCINE: If you wouldn't mind --

17 ROGER: -- and phone number.

18 LEIGH TROCINE: -- that would be great.

19 ROGER: I'm just going to put the phone down

20 --

21 LEIGH TROCINE: Sure.

22 ROGER: -- and go to my desk. And I'll be
23 right back.

24 LEIGH TROCINE: Thank you so much.

25 ROGER: Okay. Leigh?

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1 LEIGH TROCINE: Yes.

2 ROGER: Okay. The address I have is 700
3 Galleria Parkway, Southeast. And it says Atlanta,
4 Georgia, 30339

5 LEIGH TROCINE: 30339, okay. Galleria
6 Parkway?

7 ROGER: Southeast.

8 LEIGH TROCINE: Southeast.

9 ROGER: Atlanta, Georgia.

10 LEIGH TROCINE: Okay.

11 ROGER: And I have a number here.

12 LEIGH TROCINE: Okay.

13 ROGER: 770-664-8000, and it's option 2.
14 And I'm going to give them a call, and just to confirm
15 it's, all the information again.

16 LEIGH TROCINE: Okay. Do we know that this
17 is a 24 hour number, or no?

18 ROGER: I am not 100 percent sure. But we
19 have another number that I was able to call before.
20 But now it's giving me a busy signal.

21 LEIGH TROCINE: Okay.

22 ROGER: But we can, we have email. And we
23 can get a hold of them somehow.

24 LEIGH TROCINE: Okay.

25 ROGER: And let me just double check if that

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1 email came through. Hold on just a second.

2 LEIGH TROCINE: Okay. Thank you.

3 ROGER: Hey, Greg, can you check to see if
4 there was an email that came from USAID yesterday, about
5 11:00 p.m.? What was the subject, Leigh, on that email?

6 LEIGH TROCINE: It was logistics for --

7 ROGER: Logistics for --

8 LEIGH TROCINE: Hang on a second. Let me
9 find it. Logistics for info request for pumping
10 mechanism.

11 ROGER: Logistics for info request for
12 pumping mechanism.

13 LEIGH TROCINE: It came in at, it was sent
14 at 11:14 p.m.

15 ROGER: 11:14 last night. Leigh, are you
16 an NRC employee or a --

17 LEIGH TROCINE: Yes, I am.

18 ROGER: Oh, okay.

19 LEIGH TROCINE: Yes.

20 ROGER: Okay. Bill said, oh, she's NRC.
21 And I thought you were USAID.

22 LEIGH TROCINE: Well, I'm liaisoning at
23 USAID.

24 ROGER: Oh, okay.

25 LEIGH TROCINE: I'm here with Bob Kahler.

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1 ROGER: All right. He's saying hello.

2 LEIGH TROCINE: Oh, hello.

3 BILL: She looks much younger than I look
4 thought.

5 ROGER: Oh, she can hear that.

6 LEIGH TROCINE: Say what now?

7 ROGER: He's saying that you look much
8 younger than he'd look.

9 LEIGH TROCINE: Aw.

10 ROGER: Yes, it came in? Yes, yes, it got
11 here.

12 LEIGH TROCINE: Okay. Okay. So I guess the
13 logistics part of that, just be aware that if the military,
14 if they don't have this on their radar, if. And I know
15 you guys said you were in contact with folks, and that
16 you think they are.

17 ROGER: Well we're trying to get a hold of
18 the people and get it going. But we --

19 LEIGH TROCINE: Okay. So you have or have
20 not been in contact with the military?

21 ROGER: We're trying to get in contact with
22 the military on this pallet, yes.

23 LEIGH TROCINE: Okay. But now, so does the
24 military know about this, and they're working on it?
25 Or we don't, or do we know that for sure?

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1 ROGER: No. But if you can help, that would
2 be great.

3 LEIGH TROCINE: Right.

4 ROGER: I'm trying. I have a bunch of DSM
5 numbers that I can't get through.

6 LEIGH TROCINE: Okay.

7 ROGER: And I have a DSM operator that I
8 could get sometimes. But I haven't been able to get
9 through to him either.

10 LEIGH TROCINE: Okay. So, what -- When I
11 talk with (inaudible), what I'm going to do is, I'm going
12 to email the -- Because it's kind of like --

13 ROGER: And I mean, we don't need to use
14 the military --

15 LEIGH TROCINE: -- when there's a --

16 ROGER: -- any other way we can get it, it
17 would be --

18 LEIGH TROCINE: Well my understanding is

19 --

20 ROGER: -- just the fastest way.

21 LEIGH TROCINE: -- that if it's this shipment
22 that's part of the Australia thing, I think that's under,
23 being paid for by Department of Defense --

24 ROGER: Oh, okay.

25 LEIGH TROCINE: -- is my understanding.

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1 And that's all being done by the military. And if it's
2 part of that, we need to make sure that they're aware
3 that that's part of it. And that it's on their radar.

4 ROGER: Oh, okay.

5 LEIGH TROCINE: If it's not on their radar,
6 then we need to get it, we need to make the logistics
7 happen here, okay. So if it happens through USAID, then
8 that list of questions with the logistics, we would need
9 that information, okay.

10 ROGER: Okay.

11 LEIGH TROCINE: So what I'm going to do is
12 email the folks at the other end. Because there are
13 people in Japan who deal with the military, Air Force
14 bases, when things land there, okay. And so I'm going
15 to email those people to see if, in fact, this Atlanta
16 thing is on their radar.

17 ROGER: Okay, great.

18 LEIGH TROCINE: Okay. Because it's kind
19 of like, once the military gets it, it sort of goes behind
20 a curtain. And it's not visible again until it pops
21 out on the other end. They do all those logistics. They,
22 you know, do the military thing.

23 ROGER: Okay.

24 LEIGH TROCINE: Okay. But let me email those
25 folks. And then I will get back with you, okay.

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ROGER: Thank you.

LEIGH TROCINE: All right. Thank you,
Roger.

ROGER: See you. Bye, bye.

LEIGH TROCINE: Bye, bye.

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SATURDAY,
MARCH 19, 2011

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Reactor Safety Team.

HEADQUARTERS OPERATIONS OFFICER: Hi.

I've got John Monninger for you.

MALE PARTICIPANT: John Monninger for you.

JOHN MONNINGER: Hello

DAVE SKEEN: This is Dave Skeen.

JOHN MONNINGER: Hey, Dave, John Monninger.

How are you doing?

DAVE SKEEN: Hey, John. We're just doing
some brain storming.

JOHN MONNINGER: Brain storming?

DAVE SKEEN: Yes.

JOHN MONNINGER: You know the two issues,
salt and, you know, radiation routes? On those two,
or --

DAVE SKEEN: We're working on ways to get
fresh water in at the target sets that they talked about.
What systems might you need?

JOHN MONNINGER: Yes.

DAVE SKEEN: We need a lot of information
before we can figure that out. But we're coming up with
different things that could work.

JOHN MONNINGER: Yes. So you were on the

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1 bridge there with the ET about this?

2 DAVE SKEEN: Yes, I was listening in, yes.

3 JOHN MONNINGER: All right. So you ready?
4 So I'm going to go to TEPCO in two hours and ten minutes.

5 DAVE SKEEN: Two hours and ten minutes.
6 Because we were going to tell INPO it was going to be
7 at midnight our time. So now you're saying it's 1 o'clock
8 our time then?

9 JOHN MONNINGER: Yes. I said that was
10 preliminary, though.

11 DAVE SKEEN: Okay.

12 JOHN MONNINGER: And we'd get back to them,
13 yes. So it was two hours and ten minutes. No idea what
14 level of detail. Whether they're going to be conceptual,
15 whether we'll be in the intimate details, or extremely
16 high level, or conceptual.

17 DAVE SKEEN: Okay.

18 JOHN MONNINGER: My only thought is, you
19 know, you may want to spin up some of the external.
20 But I'm not sure if you want to spin up the entire world
21 external. But that's going to be your call.

22 DAVE SKEEN: Okay. Well, I don't know.
23 Maybe some of the industry people have thoughts we haven't
24 thought about here. But, you know, we got a lot of BWR
25 guys here.

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1 JOHN MONNINGER: Yes. You know, that can
2 be your call. I'm not, you know, hopefully it will be
3 a productive meeting. And we'll get some insights and
4 details.

5 DAVE SKEEN: Okay. Now, are the Japanese
6 -- Are they going to have information for this, data?
7 Because, you know, we're talking about, well maybe they
8 can use the CATS, if they're not too badly damaged.
9 Will they know if they can use the CATS? Is there still
10 water in those? Or can we put water back into those?

11 JOHN MONNINGER: I have no idea what kind
12 of data, you know, will be given to us.

13 DAVE SKEEN: Okay.

14 JOHN MONNINGER: I won't know until we get
15 there. But I think they're potentially, you know, fair
16 questions --

17 DAVE SKEEN: Yes.

18 JOHN MONNINGER: -- to ask. But, you know,
19 and I assume you guys are reading up on those papers
20 that are out there on the fault also.

21 DAVE SKEEN: Yes. And we've got some Naval
22 Reactor guys here that actually gave us the two pages
23 on the concerns with salt water and BWR. So, yes, they're
24 up to speed on that.

25 JOHN MONNINGER: You know, and my gut, you

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1 know, I know you guys are thinking about the faults and
2 CSP, et cetera. You know, my, I'm thinking they have
3 the suction most likely still from the ocean.

4 DAVE SKEEN: Right.

5 JOHN MONNINGER: You pull in a couple of
6 fresh water tanks, you know, 6,000 gallon tanks, and
7 you pull the suction out of the ocean. And you switch
8 the suction to the tanker.

9 DAVE SKEEN: Right.

10 JOHN MONNINGER: You know, I'm thinking,
11 you know, there may be something they want to do longer
12 term. But they probably have -- If they're reaching
13 out though, they probably have something they need done
14 in the shorter term.

15 DAVE SKEEN: Right, right.

16 JOHN MONNINGER: We'll hear that,
17 hopefully today.

18 DAVE SKEEN: Okay. Okay, I guess we'll need
19 to hear from them what do they have available. And we'll
20 try to give them thoughts on locating. If you have these
21 things available, here's things you could do.

22 JOHN MONNINGER: Yes, yes.

23 DAVE SKEEN: Okay.

24 JOHN MONNINGER: Now, that's good. My
25 thoughts are, they're a pretty versed organization.

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1 And I went down there. Their command center is about
2 250 people.

3 DAVE SKEEN: Right.

4 JOHN MONNINGER: I went up in their
5 engineering organization. They're fully staffed up.

6 DAVE SKEEN: Yes.

7 JOHN MONNINGER: They got break out rooms
8 all over the place. So I'm thinking they probably through
9 this through pretty well.

10 DAVE SKEEN: Yes.

11 JOHN MONNINGER: And are not reaching out
12 to us until all the obvious solutions are past.

13 DAVE SKEEN: Right.

14 JOHN MONNINGER: So, you know, the obvious
15 things, maybe CST, et cetera, they probably worked through
16 them.

17 DAVE SKEEN: Okay.

18 JOHN MONNINGER: So, yes, that's my gut.
19 Of course, they will be very polite and, you know, and
20 good idea, et cetera.

21 DAVE SKEEN: Right.

22 JOHN MONNINGER: But, you know, a lot of
23 times they probably worked through them. But we can,
24 you know, we should still bring them up.

25 DAVE SKEEN: Yes.

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1 JOHN MONNINGER: Because I think it's going
2 to be a difficult issue if they're, you know, reaching
3 out.

4 DAVE SKEEN: Right.

5 JOHN MONNINGER: Because, you know, they
6 got a good organization.

7 DAVE SKEEN: Right.

8 JOHN MONNINGER: So reach out, you know
9 --

10 DAVE SKEEN: Yes, I understand.

11 JOHN MONNINGER: Okay.

12 DAVE SKEEN: Yes, they wouldn't do it if
13 they didn't have to.

14 JOHN MONNINGER: Yes.

15 DAVE SKEEN: But without data we're kind
16 of shooting in the dark, you know. So we can come up
17 with ideas. But we don't know what they thought of,
18 or what they have or not have. And then not knowing
19 what the rad levels are in certain parts of the plant,
20 can I even restore that equipment? Or can I get to that
21 valve or that pump?

22 JOHN MONNINGER: Right.

23 DAVE SKEEN: Gee, I don't know.

24 JOHN MONNINGER: Yes. I got to roll
25 though.

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1 DAVE SKEEN: Okay.

2 JOHN MONNINGER: Okay.

3 DAVE SKEEN: So it's now 1:00 a.m. is when
4 we'll have our call, 1:00 a.m. our time?

5 JOHN MONNINGER: All I can say is, in two
6 hours and five minutes.

7 DAVE SKEEN: Okay. All right. I got you.
8 All right.

9 JOHN MONNINGER: All right. Bye, bye.

10 DAVE SKEEN: Bye.

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7 MONDAY,

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(CONFERENCE CALL INITIATED)

MIKE MORLING (phonetic): RST team, Mike Morling. This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER:
Headquarters Operations Officer. I have someone from U.S. Forces, Japan.

MIKE MORLING: Okay.

LTC MERCER (phonetic): Hello.

MIKE MORLING: Hi, Mike Morling.

LTC MERCER: Hi. This is Lieutenant Commander Mercer calling from United States Forces, Japan.

MIKE MORLING: Yes. I sent you an email earlier. You won't see my name. It will say RST01 on it.

LTC MERCER: Okay. I was at -- And that's in regards to the boron.

MIKE MORLING: Right, right.

LTC MERCER: This actually a different question.

MIKE MORLING: Okay.

LTC MERCER: I had just gotten off the phone with Ms. Uhle. And I had, I was just kind of giving her an update on the information we had from our Japanese military sources here.

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1 MIKE MORLING: Right.

2 LTC MERCER: I had one other question I forgot
3 to ask her. And you can probably answer it. I'd seen
4 that there was some thought that there was possible torus
5 damage on Unit 2.

6 MIKE MORLING: Right.

7 LTC MERCER: What is the impact for that
8 on primary containment? Does that mean primary
9 containment isn't intact? Or it's just that the
10 suppression pool may not function as intended.

11 MIKE MORLING: Well, hold on just a second,
12 and I'll put our BWR guy on that can answer that for
13 you.

14 LTC MERCER: Okay, great.

15 MIKE MORLING: Hey, Don, can you take a phone
16 call? It's about the torus on Unit 2. What line are
17 on here? 4513 if you have it. 4513, you'll have to scroll
18 down the right hand side there, see if you have that
19 line. Do you have 4513? Okay. Do you want to just take
20 it here?

21 DON DUBE: Don Dube, Reactor Safety Team.

22 LTC MERCER: Hi, Don. Lieutenant Commander
23 Mercer here, United States Forces, Japan.

24 DON DUBE: Okay.

25 LTC MERCER: Hi. I actually, I had just

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1 gotten off the phone with Ms. Uhle. And I was kind of
2 giving her an update of the information we were getting
3 from the Japanese Government here. And, you know, I
4 asked her a few questions.

5 And one of the questions I had forgotten
6 to ask was, I've gotten a piece of information. It looks
7 like it's coming from either the NRC or DoE side of the
8 house, that there's possible torus damage on Unit 2.
9 So was trying to understand if that affects the integrity
10 of containment? Or if that's just an issue for suppression
11 pool function?

12 DON DUBE: Well we're not quite sure what
13 is meant by that. It may -- The fact that the pressure
14 is above atmospheric tells me that if there is a leak,
15 it's a small leak. You know, probably equivalent of,
16 you know, less than an inch diameter kind of thing.

17 Because the suppression pool is staying up
18 pretty high. So it's not, you know, if it was a major
19 breach, containment pressure would be down to basically
20 atmospheric.

21 So it could be anything from a well to a,
22 you know, a seal, to, you know, any number of things.

23 But it does not appear to be that they have lost suppression
24 capability.

25 LTC MERCER: Okay.

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1 DON DUBE: I mean, that's the assessment.
2 I mean, it could be leaking small amounts of steam.
3 But it's, you know, like I said, that fact that the
4 pressure's staying up there is telling me it's not a
5 major leak.

6 LTC MERCER: Okay.

7 DON DUBE: Does that answer?

8 LTC MERCER: Yes. That does.

9 DON DUBE: Okay.

10 LTC MERCER: I only wanted to confirm that.
11 It's what we were thinking, but I wanted to check.

12 DON DUBE: Okay.

13 LTC MERCER: Appreciate it.

14 DON DUBE: Your welcome.

15 LTC MERCER: Allright. Thankyouverymuch.

16 DON DUBE: Bye.

17 LTC MERCER: Bye.
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(CONFERENCE CALL INITIATED)

MIKE MORLING: Reactor Safety Team. This is Mike Morling, this is a monitored line.

VINCE: Hey, Mike. Yes, this is Vince, I'm on HOO. Hey, I just got some information, and I'm trying to forward it over to you guys. And I got a note here to forward it to PMT12. There's no such thing as a PMT12.

MIKE MORLING: They're across the wall here from us. You can send it to RST01. And if it needs to go to them, I'll take it over to them.

VINCE: RST01. What about, is there a PMT01?

MIKE MORLING: Oh, yes, yes. Try that one too.

VINCE: Okay. Real good.

MIKE MORLING: I'll find out which one their coordinator's on. But I'll tell them it's on the way over.

VINCE: I sent it to PMT01, by the way. That's the one that seems to be working.

MIKE MORLING: Okay

VINCE: If you miss it, just give us a call.

MIKE MORLING: All right, bye.

VINCE: Bye.

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(CONFERENCE CALL INITIATED)

MIKE MORLING: RST coordinator, Mike Morling.

This is a recorded line.

(b)(6) Hi, this is Hayden with CIA WINPAC, working on our morning update. Just calling to touch base and see if we've got some more understandings.

MIKE MORLING: Okay. And which particular issues?

(b)(6) Basically, the latest that we've heard is they are still trying. They've got power connected to Unit 2 main switchboard. But that they haven't yet energized any of the internal to the reactors. We still don't know whether any of that's going to work.

MIKE MORLING: Right. That's correct.

(b)(6) Okay. Skimming through other things that are going on. Let's see.

MIKE MORLING: The plane with the first pumping train on it, out of Australia --

(b)(6) Oh.

MIKE MORLING: -- had mechanical problems.

It's not off the ground yet.

(b)(6) Oh, oh boy.

MIKE MORLING: Yes.

(b)(6) I'm trying to think about what's

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1 going on They've been pumping a ton of water into 3.

2 But we're still not sure whether, what the water levels
3 are like in the 3 or 4 spent fuel pool.

4 MIKE MORLING: Right.

5 (b)(6) For a while, I believe you guys
6 have been saying that 3 and 4 were dry. And there was
7 a dispute about that. Is that still going on? Or do
8 you guys think there's water in those pools now?

9 MIKE MORLING: That's pretty much still the
10 case, especially 4.

11 (b)(6) Okay.

12 MIKE MORLING: 3, there may in fact be some,
13 because of all the water they've been spraying up there.
14 But we still don't know for sure.

15 (b)(6) Okay. That's good to know. I'm
16 just -- Yes, that's one of the things we get asked a
17 lot. Anything else you can think of that --

18 MIKE MORLING: No. I was just reading an
19 article in the AP on Yahoo news. And it said, now they've
20 seen cesium in the drinking water in Tokyo. But again,
21 you don't have reliable as a source, or to come from.

22 (b)(6) Right.

23 MIKE MORLING: And this is AP, Associated
24 Press.

25 (b)(6) Yes.

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1 MIKE MORLING: We don't know who they got
2 that from.

3 (b)(6) Exactly. So, okay. Then I think
4 that's about everything, unless you have any questions.

5 MIKE MORLING: Yes. We had, TEPCO had a
6 list of questions about the pumping train. And we sent
7 those to Bechtel, so they could answer those for TEPCO.

8 (b)(6) Okay.

9 MIKE MORLING: And we're doing a call with
10 our folks at 3 o'clock. So if you want to give a call
11 back, we may have some new info.

12 (b)(6) Actually, let me give you my number.
13 Because if we're going to be running around finishing
14 up the things for the briefers. My number is (b)(6) --

15 MIKE MORLING: Hold on just a second. Okay..

16 (b)(6) (b)(6)

17 MIKE MORLING: Okay. And your name is?

18 (b)(6) (b)(6)

19 MIKE MORLING: And your with --

20 (b)(6) CIA WINPAC.

21 MIKE MORLING: Okay. And if we get something
22 really --

23 (b)(6) Yes, if you get something that we
24 should be flagging for the policy makers.

25 MIKE MORLING: Right. We'll give you a call.

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(b)(6)

Cool. Thank you.

MIKE MORLING: All right. Have a good evening.

(b)(6)

You too.

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1
2 (CONFERENCE CALL INITIATED)

3 MIKE BROWN: Reactor Safety Team, Mike Brown.

4 This is a recorded line. May I help you?

5 JASON SCHAPEROW: Yes. This is Jason
6 Schaperow.

7 MIKE BROWN: Jason.

8 JASON SCHAPEROW: I called about an hour

9 --

10 MIKE BROWN: Man, you just don't want to
11 sleep tonight.

12 JASON SCHAPEROW: Well actually I do.

13 MIKE BROWN: Oh, you do?

14 JASON SCHAPEROW: I need to talk to Jennifer
15 so I can go to sleep.

16 MIKE BROWN: Okay. Well let me see if I
17 can track her down. I thought they had you on a different
18 line. All right. Hold on, Jason.

19 JASON SCHAPEROW: Thank you.

20 (Inaudible background conversations)

21 MIKE BROWN: Jason.

22 JASON SCHAPEROW: Yes, sir.

23 MIKE BROWN: Mike Brown again. I tracked
24 Jennifer down. She's talking to Mike Johnson. And she
25 will be here shortly, sir.

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1 JASON SCHAPEROW: You want me to stay on
2 the line?

3 MIKE BROWN: Yes, yes. I think that would
4 be best.

5 JASON SCHAPEROW: Sure.

6 MIKE BROWN: Hopefully she'll be here in
7 like under five minutes.

8 JASON SCHAPEROW: Oh, okay.

9 MIKE BROWN: That we don't like lose you.

10 JASON SCHAPEROW: Yes, no, no --

11 MIKE BROWN: You can go to bed.

12 JASON SCHAPEROW: Yes.

13 MIKE BROWN: All right. Hold on.

14 JASON SCHAPEROW: I'd like to get a good
15 day in tomorrow.

16 MIKE BROWN: Okay.

17 JASON SCHAPEROW: Thanks.

18 MIKE BROWN: Hey, don't forget, you can
19 charge all this. And you get night shift differential.

20 JASON SCHAPEROW: Yes, no, actually I took
21 out my little black book and wrote it down, the time
22 she called me.

23 MIKE BROWN: Yes, I would. I mean, geez,
24 they wake you up in the middle of the night.

25 JASON SCHAPEROW: Yes. No, I'm happy.

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1 MIKE BROWN: Do we get like the four hour
2 call out thing? Or do they only get to, you only get
3 paid for that time?

4 JASON SCHAPEROW: (Inaudible) at home, it
5 doesn't matter.

6 MIKE BROWN: Okay.

7 JASON SCHAPEROW: I don't think it matters.

8 MIKE BROWN: All right. I'll have to call
9 my union rep for you. Hold on.

10 JASON SCHAPEROW: Okay, thanks.

11 JENNIFER: Oh, hey, Jason, sorry. I was
12 in the ET room there, with a call with the situation
13 room at the White House, with the Director of OSTP.

14 JASON SCHAPEROW: Oh, okay.

15 JENNIFER: (b)(5)

16 (b)(5)

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23
24 (b)(5)

And it's this big mess. Okay.

25 So, sorry about that.

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1 JASON SCHAPEROW: Yes, it sounds like it.

2 JENNIFER: Yes.

3 JASON SCHAPEROW: Okay. I made some calls.
4 I did get in touch with others, that was Randy Gant
5 (phonetic) and Casey Wagner (phonetic). And they did
6 complete some spent fuel pool calculations for Fukushima
7 Daiichi Unit 4 --

8 JENNIFER: Yes.

9 JASON SCHAPEROW: -- fuel pool. And the
10 results of the calculations are that there are no core
11 (inaudible) interactions.

12 JENNIFER: Okay. Why is that?

13 JASON SCHAPEROW: It's because the fuel
14 heats up, goes through it's oxidation transient, you
15 know, melts, turns into rubble, and falls down. And
16 then there --

17 JENNIFER: Is there zirc fire involved?

18 JASON SCHAPEROW: Yes.

19 JENNIFER: Okay.

20 JASON SCHAPEROW: So that's kind of the end
21 of it. Because, you know, after the stuff burned out,
22 there's really, it's kind of done. I mean, there's,
23 oxidation's over. All you have is a low decay power
24 left. And --

25 JENNIFER: Okay. But is it --

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1 JASON SCHAPEROW: -- that low decay power
2 is not enough to eat through the concrete.

3 JENNIFER: Okay.

4 JASON SCHAPEROW: It's just --

5 JENNIFER: You mean, that they decay heat's
6 so low that there is not enough to melt through the concrete?

7 JASON SCHAPEROW: Yes. That is -- I think
8 the technical term is oblate. It's not enough to oblate
9 the concrete.

10 JENNIFER: Yes.

11 JASON SCHAPEROW: It's below the oblation
12 temperature of concrete.

13 JENNIFER: Okay.

14 JASON SCHAPEROW: The remaining debris bed
15 --

16 JENNIFER: Okay.

17 JASON SCHAPEROW: -- would be below the
18 oblation temperature of the concrete.

19 JENNIFER: Okay.

20 JASON SCHAPEROW: Now, Naval Reactors --
21 I told Naval Reactors that. And they requested three
22 things from us, while I was on the bridge with Naval
23 Reactors, Kappel (phonetic) and Bettis (phonetic). So
24 the first thing they wanted was, they wanted a written
25 position from the NRC, by morning, whenever morning is

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1 --

2 JENNIFER: Okay.

3 JASON SCHAPEROW: -- whether we believe fuel
4 debris in the Unit 4 spent fuel pool, if there is any,
5 will eat through the concrete floor.

6 JENNIFER: Okay. Okay. So the answer's no.

7 JASON SCHAPEROW: The answer's no. The
8 other thing they wanted was, they wanted MELCOR spent
9 fuel pool input deck that Casey developed for Fukushima
10 Daiichi --

11 JENNIFER: Okay. That's fine.

12 JASON SCHAPEROW: -- Unit 4. And they also
13 wanted the results of the calculations.

14 JENNIFER: Okay.

15 JASON SCHAPEROW: Which I actually forwarded
16 to you about an hour ago, about a half hour ago.

17 JENNIFER: Okay. To my personal?

18 JASON SCHAPEROW: Yes, to your personal.

19 JENNIFER: Okay. And so is input deck there
20 too?

21 JASON SCHAPEROW: Oh, no. No. I don't know
22 where the input deck is.

23 JENNIFER: Okay. Okay. So when are we
24 going to get those deliverables to them?

25 JASON SCHAPEROW: Well we can get them the

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1 results immediately if they give us an email address.

2 We can just forward them.

3 JENNIFER: Okay. And the input deck, does

4 --

5 JASON SCHAPEROW: I don't know about that.

6 I mean, I think the person who has that is sleeping
7 right now. And is in Roswell, New Mexico.

8 JENNIFER: Okay.

9 JASON SCHAPEROW: Can we give them that in
10 the morning?

11 JENNIFER: Yes. We can give it to them --

12 JASON SCHAPEROW: (Inaudible) tonight.

13 JENNIFER: We can give it to them in the
14 morning.

15 JASON SCHAPEROW: Okay.

16 JENNIFER: Okay.

17 JASON SCHAPEROW: So you want to give them
18 the MELCOR input deck tomorrow morning?

19 JENNIFER: Yes.

20 JASON SCHAPEROW: Deck Monday. Okay.

21 JENNIFER: And the third thing is the written

22 --

23 JASON SCHAPEROW: They want the report that
24 we produced --

25 JENNIFER: Okay.

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1 JASON SCHAPEROW: -- or that Casey developed
2 over the last several years, which we did several reports
3 on spent fuel pool accidents. I think we sent those
4 to somebody else recently, didn't we?

5 JENNIFER: Yes, yes. Just send it to them
6 again.

7 JASON SCHAPEROW: We sent it to GE or
8 something?

9 JENNIFER: Yes.

10 JASON SCHAPEROW: So those are the same ones.
11 We should send those to Naval Reactors as well.

12 JENNIFER: Okay.

13 JASON SCHAPEROW: All right.

14 JENNIFER: All right. Those will be
15 tomorrow morning?

16 JASON SCHAPEROW: Yes, I guess so.

17 JENNIFER: Okay.

18 JASON SCHAPEROW: There's going to be a big
19 commission meeting tomorrow morning.

20 JENNIFER: Yes. Okay.

21 JASON SCHAPEROW: So we could certainly work
22 on it tomorrow morning. What --

23 JENNIFER: And then what is this written
24 position? Is that -- Who's --

25 JASON SCHAPEROW: Whether we believe fuel

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1 debris --

2 JENNIFER: Yes.

3 JASON SCHAPEROW: -- if there is any --

4 JENNIFER: Yes.

5 JASON SCHAPEROW: -- in the Unit 4 pool will
6 eat through the concrete floor.

7 JENNIFER: And we say, do we just simply
8 say, no it will not? And then send that to them, or
9 what?

10 JASON SCHAPEROW: I don't know. I kind of
11 assumed that you would be the one to tell them that.

12 JENNIFER: Okay. That's fine. Yes, I'll
13 do that.

14 JASON SCHAPEROW: Do you want to also forward
15 them the results I sent you? Or do you want me to do
16 that?

17 JENNIFER: No, I can do it.

18 JASON SCHAPEROW: Okay.

19 JENNIFER: So when they look at the results,
20 is that a file? What kind of results is it?

21 JASON SCHAPEROW: Yes, they're graphs.

22 JENNIFER: It's graphs, okay. Okay. And
23 then if it didn't have a zirc fire, would it melt through?

24 The answer is no?

25 JASON SCHAPEROW: If it didn't have a zirc

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1 fire.

2 JENNIFER: Is there anything about the zirc
3 fire that --

4 JASON SCHAPEROW: The zirc fire releases
5 fission products and hydrogen, and rubbleizes the fuel.

6 JENNIFER: Right, right.

7 JASON SCHAPEROW: But then you got to have
8 DKE to eat through the --

9 JENNIFER: Yes, I know. That's what I'm
10 saying. So the zirc fire has nothing to do with the
11 fact that it's not going to oblate the concrete?

12 JASON SCHAPEROW: It's probably fair to say
13 that.

14 JENNIFER: Okay. Okay. Well you see my
15 point, right? If it melts, but didn't have a zirc fire,
16 would it then oblate the concrete?

17 JASON SCHAPEROW: Melts but didn't have a
18 zirc fire. No. Because you'd be back at the same point
19 again. You'd be back with just decay heat.

20 JENNIFER: Yes, right. Exactly. That's
21 what I just wanted to confirm. Yes. Okay. Okay. Yes.
22 All right. Great. Thanks, Jason.

23 JASON SCHAPEROW: All right. So tomorrow
24 morning we'll work on getting Naval Reactors the MELCOR
25 deck.

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1 JENNIFER: Okay.

2 JASON SCHAPEROW: And the reports.

3 JENNIFER: Okay, great.

4 JASON SCHAPEROW: And you're going to take
5 care of the --

6 JENNIFER: Yes.

7 JASON SCHAPEROW: And the --

8 JENNIFER: Yes.

9 JASON SCHAPEROW: Thank you very much.

10 JENNIFER: All right.

11 JASON SCHAPEROW: It's still early. I'm
12 going to turn in.

13 JENNIFER: Yes. Sorry. Go to sleep.
14 Sorry.

15 JASON SCHAPEROW: Okay. All right.

16 JENNIFER: And don't worry about -- Come
17 in late to work tomorrow. I'll tell Kathy that you were
18 up for us.

19 JASON SCHAPEROW: Actually, I sent an email
20 to Pat Santiago --

21 JENNIFER: Okay. Okay.

22 JASON SCHAPEROW: -- a little while ago.

23 JENNIFER: Okay.

24 JASON SCHAPEROW: So she knows I was up late.

25 JENNIFER: Okay, good.

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JASON SCHAPEROW: All right. Thank you.

JENNIFER: All right. Thanks. See you.

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(CONFERENCE CALL INITIATED)

MIKEMORLING: RSTCoordinator, Mike Morling.

This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Yes, this is Bill Cook on the other line. I'm going to transfer.

MIKE MORLING: Where did Jennifer go? Bill Cook?

BILL COOK: Yes, sir.

MIKE MORLING: Hi, Bill, Mike Morling. How are you?

BILL COOK: Good, Mike.

MIKEMORLING: Hold on a second. Jennifer's our RST Director for the evening.

BILL COOK: I don't need to talk to her.

MIKE MORLING: She's on the way here.

BILL COOK: No. I need to talk to Mike Brown. He sent me an email earlier --

MIKE MORLING: Oh, okay.

BILL COOK: -- making an inquiry about the TEPCO questions.

MIKE MORLING: Yes. Okay.

BILL COOK: And I was under the impression that perhaps someone in Headquarters, in conjunction with Bechtel, was going to answer all those questions.

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1 MIKE MORLING: Okay. Hang on just a second.

2 BILL COOK: Okay, great.

3 MIKE BROWN: Bill.

4 BILL COOK: Hey, Mike, you were supposed
5 to answer all those questions.

6 MIKE BROWN: I'm supposed to answer all those
7 questions? Okay. Yes, all right. Sure.

8 JENNIFER: We're trying to get Bill on the
9 ground to kind of take the lead for getting TEPCO and
10 Bechtel together.

11 MIKE BROWN: Exactly.

12 JENNIFER: Okay. I just needed to verify
13 that you were on the same page.

14 MIKE BROWN: Okay. That's it. Okay, I'm
15 back.

16 BILL COOK: Yes, sure. And I'll give you
17 an update too on the flight from Australia, if you haven't
18 heard it.

19 MIKE BROWN: Oh, yes. Hold on a second.
20 Let me just get something so I can write this down.

21 BILL COOK: Okay.

22 MIKE BROWN: All right, sir, go ahead.

23 BILL COOK: Yes. I'll just send you an email.
24 I'll forward you an email.

25 MIKE BROWN: Oh, okay.

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1 BILL COOK: It's RST08, is that right?

2 MIKE BROWN: RST, yes that would work.
3 RST08.hoc.

4 BILL COOK: Okay. Yes. The gist of it is
5 -- RST08.hoc.

6 MIKE BROWN: Or you could just send it to
7 RST01. That's fine too.

8 BILL COOK: FYI coming your way.

9 MIKE BROWN: Okay.

10 BILL COOK: Oops. That's not going to work.
11 Okay. Now we can send it. Sorry. The reason I called
12 was to talk about that TEPCO list of questions. And
13 the last I heard, it was supposed to have been addressed
14 by Bechtel.

15 MIKE BROWN: Okay.

16 BILL COOK: And perhaps the Bechtel
17 representative was Ned Merchant (phonetic). But --

18 MIKE BROWN: Oh, okay.

19 BILL COOK: I sent him an email earlier,
20 and didn't get a response.

21 MIKE BROWN: Well, it is 1 o'clock over here.
22 Actually now it's 3 o'clock.

23 BILL COOK: Yes. What was I thinking?

24 MIKE BROWN: Ned might be asleep, you know.
25 I think they're -- Well I'll have to check to see if

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1 they're still having the 6 o'clock phone call. But --

2 BILL COOK: 6 o'clock phone call with Chuck
3 Casto?

4 MIKE BROWN: Yes.

5 BILL COOK: I don't know that it's --

6 MIKE BROWN: No, no, no. I'm talking about
7 like, two days ago we were having this plane phone call,
8 you know, the pumping thing.

9 BILL COOK: Oh, we've had lots of plane phone
10 calls.

11 MIKE BROWN: Yes. So is that still happening
12 at 6:00 in the morning, or no?

13 BILL COOK: We can have it. I don't know
14 that I'll have much of an update, other than what I've
15 --

16 MIKE BROWN: What you just emailed me?

17 BILL COOK: -- forwarded you, yes.

18 MIKE BROWN: Okay. Well I'll, I can get
19 a hold of Ned Merchant. But I think what we're trying
20 to do is to, since the plane's heading that way --

21 BILL COOK: Right.

22 MIKE BROWN: -- you know, and Bechtel's I
23 guess got some reps out that way.

24 BILL COOK: No. Not Bechtel. It will be
25 the pump vendors are having reps accompany the flight.

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1 MIKE BROWN: Right.

2 BILL COOK: Okay? And right now, I'm
3 planning on driving down to do a receipt inspection,
4 along with a DoE representative here in the Embassy.

5 MIKE BROWN: Okay.

6 BILL COOK: But what we're working on is
7 getting TEPCO on board with sending a representative
8 or two to talk with vendor reps. So that if they have
9 any technical questions about the pumps, the pumping
10 capabilities, et cetera, they can get them addressed
11 right away.

12 MIKE BROWN: Okay.

13 BILL COOK: But I'm not sure that's going
14 to happen. The other thing we're working on is, and
15 it's a political football. Is, you know, getting this
16 equipment actually --

17 MIKE BROWN: Using it.

18 BILL COOK: -- turned over to TEPCO --

19 MIKE BROWN: Okay.

20 BILL COOK: -- for use. And, you know,

21 (b)(5)
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1 MIKE BROWN: Okay.

2 BILL COOK: So there's a couple of questions
3 that I need to talk to Ned Merchant about, to finalize
4 that. And you don't need to necessarily facilitate that.
5 I can take care of it.

6 MIKE BROWN: Okay. I mean, I assume you
7 have his number, right?

8 BILL COOK: Yes, I do.

9 MIKE BROWN: Okay.

10 BILL COOK: But I just want to make sure
11 everyone's clear that at this point we still don't have
12 a clear acceptance of that system from TEPCO.

13 MIKE BROWN: Okay.

14 BILL COOK: (b)(5)

15 (b)(5)

16
17 MIKE BROWN: Okay.

18 BILL COOK: Okay? It's a diplomatic thing.

19 MIKE BROWN: I understand.

20 BILL COOK: Now the other thing that you
21 should be aware of is, the latest was there is -- Well,
22 maybe you have this already. Let me see if I can find
23 it. There was an update here not too long ago.

24 MIKE BROWN: Update on the plane?

25 BILL COOK: No. It involved where the money

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1 stands, and --

2 MIKE BROWN: Oh, I did see something about
3 that. It's in my log. It says like, that three million's
4 been approved for the first two trains, or for the first
5 train and part of the second train.

6 BILL COOK: Right.

7 MIKE BROWN: Okay. Is that what we're
8 talking about?

9 BILL COOK: I think that's the same one.
10 Let me see here. (Inaudible). My apologies here, Mike.

11 MIKE BROWN: No. Not a problem. How is it
12 over there?

13 BILL COOK: It's raining right now.

14 MIKE BROWN: Oh, is it? I mean, I guess
15 you guys have never -- Have you ever gotten embedded
16 with TEPCO?

17 BILL COOK: No.

18 MIKE BROWN: And over to their --

19 BILL COOK: Just recently we've kind of
20 established much better line of communications. And
21 they're openly sharing some information with us.

22 MIKE BROWN: Well, that's good.

23 BILL COOK: It's progress, definitely
24 progress.

25 MIKE BROWN: What about, like, you know,

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1 because we have all these concerns here about the spent
2 fuel pools --

3 BILL COOK: Yes.

4 MIKE BROWN: -- you know, is there water
5 in them, is there not water in them? Is there, like
6 any effort just to get like a robot or something up on
7 there and take a look?

8 BILL COOK: When we offered robotic radiacs
9 (phonetic) and such, it was kind of like a revelation
10 I think. And I don't know that they were thinking along
11 those lines. My best guess is, no, they haven't done
12 any type of --

13 MIKE BROWN: Okay.

14 BILL COOK: --roboticradiationmonitoring.

15 MIKE BROWN: Right. Okay.

16 BILL COOK: Yes. I think, here's the --
17 This is a email from Jeff Harris, dated today, 12:29
18 a.m. You probably have that one.

19 MIKE BROWN: Okay.

20 BILL COOK: It's here on distribution.

21 MIKE BROWN: Maybe RST01?

22 BILL COOK: If not, I can send it to you.

23 MIKE BROWN: Okay.

24 BILL COOK: It does say what PACOM J-4 has
25 authorized. The gist of it is PACOM J-4 has authorized

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1 you to proceed with the purchase of two Bechtel water
2 pump trains, and an additional three million of OHDACA
3 funding's already been sent to USFJ comptroller. The
4 total now is six million.

5 MIKE BROWN: Wow.

6 BILL COOK: So I'll forward that to you.

7 MIKE BROWN: Okay.

8 BILL COOK: Because I don't think you folks
9 are on distribution.

10 MIKE BROWN: Probably not.

11 BILL COOK: So at least the log jam has been
12 broken with respect to funding.

13 MIKE BROWN: Good.

14 BILL COOK: And I don't know that you heard
15 any, got any feedback on the call that we had this morning
16 at 8:30 ish. And it was a lot of back and forth on just
17 money, and how to account for it, which, you know, has
18 to be done.

19 MIKE BROWN: Sure, sure. No, I just remember
20 the call I was on two days ago, at the 6 o'clock call,
21 when the plane was being loaded, ready to do, and USAID
22 is like, whoa, we have two and a half million versus
23 750 thousand. You need to talk to us. Because we're
24 not approved for that.

25 BILL COOK: Yes, yes.

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1 MIKE BROWN: Take it off the plane.

2 BILL COOK: That was quite a flap. We've
3 progressed beyond that.

4 MIKE BROWN: Well that's good.

5 BILL COOK: Okay. I just sent you that email

6 --

7 MIKE BROWN: Okay.

8 BILL COOK: -- from a Mr. Jeffrey Harris

9 --

10 MIKE BROWN: Okay, great.

11 BILL COOK: -- PACOM J-4.

12 MIKE BROWN: Okay.

13 BILL COOK: So you'll have the latest on
14 that.

15 MIKE BROWN: Okay.

16 BILL COOK: I'm trying to think if there's
17 any other information you need. Is it Jennifer Uhle's
18 got the watch tonight?

19 MIKE BROWN: She does.

20 BILL COOK: Okay. You might want to ask
21 her what her view is on having that phone call. We can
22 go ahead, just to see if we get any takers. But I don't
23 know --

24 MIKE BROWN: Oh, the 6:00 a.m. call?

25 BILL COOK: It would be your 6:00 a.m. --

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1 MIKE BROWN: Yes, my --

2 BILL COOK: -- my 7:00 p.m.

3 MIKE BROWN: Yes, that's fine. That's okay.

4 We don't need to have the call. I mean, if you don't
5 have anything, if you do not have it previously set up.

6 I'm just going on two day old information that this
7 is going to be like a daily thing. But if in your last
8 call you said, well why don't we --

9 BILL COOK: Why don't we -- This is a daily
10 thing, so we'll keep to it.

11 MIKE BROWN: Okay. We should have Ned
12 Merchant then on there, if you want to talk to him.

13 BILL COOK: Yes. I'll make sure that we
14 broach those topics.

15 MIKE BROWN: Okay.

16 BILL COOK: Just want to give you the latest
17 and greatest beforehand.

18 MIKE BROWN: No, that was great.

19 BILL COOK: So there's no surprises. It's
20 just one blur.

21 MIKE BROWN: I bet it is, you know.

22 BILL COOK: It's non stop.

23 MIKE BROWN: What do they got you guys on,
24 like 12 hour shifts or something?

25 BILL COOK: No, it's not that horrendous.

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1 But some days we work 12, some days we work 18.

2 MIKE BROWN: Oh, okay. There you go.

3 BILL COOK: Very few eight hour days.

4 MIKE BROWN: I guess you pretty much do
5 whatever it takes.

6 BILL COOK: Yes.

7 MIKE BROWN: Now, are you guys staying at
8 the U.S. Embassy then, pretty much?

9 BILL COOK: Yes, yes. It's actually, it's
10 very convenient. We're pretty much across the street
11 at the Agura (phonetic) Hotel. And it's very nice. Hey,
12 I got to pick up the phone on the other line.

13 MIKE BROWN: Okay. Well Don Dube says hi.

14 BILL COOK: Thank you.

15 MIKE BROWN: All right. Take care. Bye.

16 BILL COOK: Bye, bye.

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1
2 (CONFERENCE CALL INITIATED)

3 JOE WILLIAMS: Joe Williams, Reactor Safety
4 Team.

5 HEADQUARTERS OPERATIONS OFFICER: I have
6 a NRC employee. I believe he's on the RST.

7 JOE WILLIAMS: Okay. Go ahead.

8 ANDY KUGLER: Hello, this is Andy Kugler.

9 JOE WILLIAMS: Hey, Andy. It's Joe
10 Williams.

11 ANDY KUGLER: Hey, Joe. Hey, I'm trying
12 to figure out what's going on. I talked to somebody
13 named Oleg, by email on Saturday. And I understood from
14 that that I had the swing shift today.

15 JOE WILLIAMS: Hold on a second. Let me
16 see if I -- There's, I'm not the coordinator today.
17 But let's see if I can find that.

18 ANDY KUGLER: Well the list that just got
19 sent out through Jim Thorp --

20 JOE WILLIAMS: John Thorp.

21 ANDY KUGLER: John Thorp, sorry. Jim
22 Thorp's the All American, that's right.

23 JOE WILLIAMS: Yes. This is probably
24 obsolescent. Yes. Because what I'm looking at doesn't
25 have a name for swing today.

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1 ANDY KUGLER: Okay. Well this one came,
2 I think -- Where did it come from? Well, it came from
3 the RST. That's weird.

4 JOE WILLIAMS: It came from the (inaudible).

5 ANDY KUGLER: Isn't this fun?

6 JOE WILLIAMS: Yes, they --

7 ANDY KUGLER: I just don't have it in front
8 of me anymore. I had webmail up.

9 JOE WILLIAMS: That's okay. You know what
10 I'm going to do? I'm not maintaining that list, or anything.
11 I'm going to write a note. Peter Alter's the acting
12 coordinator today.

13 ANDY KUGLER: Okay.

14 JOE WILLIAMS: You know, what's the best
15 way to reach you, Andy?

16 ANDY KUGLER: This cell phone. It's (b)(6)

17 JOE WILLIAMS: (b)(6)

18 ANDY KUGLER: (b)(6)

19 JOE WILLIAMS:

20 ANDY KUGLER:

21 JOE WILLIAMS:

22 ANDY KUGLER: Okay?

23 JOE WILLIAMS: All right. I will pass this
24 note along to Peter, and have him let you know if you're
25 expected to come in today.

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1 ANDY KUGLER: Okay. And what was Peter's
2 last name again?

3 JOE WILLIAMS: Alter, A-L-T-E-R.

4 ANDY KUGLER: Okay. All right, thanks.

5 JOE WILLIAMS: Bye.

6 ANDY KUGLER: Bye.

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(CONFERENCE CALL INITIATED)

GREG SCHOENEBECK: Reactor Safety Team, this is Greg speaking.

BETH REESE (phonetic): Hi, this is Beth from the Federal Liaison Team.

GREG SCHOENEBECK: Okay.

BETH REESE: And I've got somebody on the phone from DoE, Enning (phonetic). And they are asking questions about reactor instrumentation. And so I thought you guys are better equipped to answer that.

GREG SCHOENEBECK: Reactor instrumentation. Okay. DoE. Let me see. Transfer him -- Is this Beth Reese?

BETH REESE: Yes.

GREG SCHOENEBECK: Hey, Beth, it's Greg. Just let me get the number real quick, and transfer him to this number.

BETH REESE: Well, I could just transfer him right now. Just hit connect and he's on your line.

GREG SCHOENEBECK: Okay. Then let's do it.

BETH REESE: Okay. Here he comes.

GREG SCHOENEBECK: Okay.

RICK TEMPLE (phonetic): Hello.

GREG SCHOENEBECK: Hello, yes. This is Greg

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1 Shoenebeck with the Reactor Safety Team, here in the
2 NRC.

3 RICK TEMPLE: Okay, hi. You said Greg?

4 GREG SCHOENEBECK: Greg, yes. That's
5 right.

6 RICK TEMPLE: Greg, my name's Rick Temple.
7 I work in the Department of Energy, just up the road
8 from you guys.

9 GREG SCHOENEBECK: Okay.

10 RICK TEMPLE: In the Office of Nuclear Energy
11 here in Germantown.

12 GREG SCHOENEBECK: Okay, great.

13 RICK TEMPLE: And the reason I'm calling,
14 and this is going to sound like a record here if you
15 guys play back all your recorded stuff. Does that get
16 passed along?

17 GREG SCHOENEBECK: No worries. No worries.

18 RICK TEMPLE: We have put together, and it's
19 actually work for Pete Lyons --

20 GREG SCHOENEBECK: Sure.

21 RICK TEMPLE: -- who was your commissioner
22 there just recently.

23 GREG SCHOENEBECK: Yes, yes.

24 RICK TEMPLE: And we've put together what's
25 called a Nuclear Energy Response Team.

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1 GREG SCHOENEBECK: Okay.

2 RICK TEMPLE: NERT for short.

3 GREG SCHOENEBECK: Okay.

4 RICK TEMPLE: And we're just kind of feeding
5 information as we can get it up the line. And it's being
6 used to brief Secretary Chu. And we've got different
7 cells. They call them different cells for different
8 subjects.

9 GREG SCHOENEBECK: Okay.

10 RICK TEMPLE: I've got the electrical line
11 C area.

12 GREG SCHOENEBECK: Great, great.

13 RICK TEMPLE: And it's kind of interesting,
14 because I used to be on the NRC Reactor Safety Team.
15 I worked at the NRC a long time ago..

16 GREG SCHOENEBECK: Oh, geez, great.

17 RICK TEMPLE: Yes. I've been on IITs and
18 AITs, and --

19 GREG SCHOENEBECK: Okay.

20 RICK TEMPLE: -- you know, done most of that.
21 So I have a good feel for the Ops Center. Or I, at
22 one time, had a good feel for the Operations Center,
23 what you guys do.

24 GREG SCHOENEBECK: Sure, sure. Yes.

25 RICK TEMPLE: But anyway, I was hoping to

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1 maybe meet up or have a conversation, or I could even
2 come down there. I mean, I've got a Q badge and everything.

3 And I've been in the NRC building many times.

4 Somebody with an electrical background, and maybe try
5 to ask, or find out what you guys know. And I hope you
6 know more than us --

7 GREG SCHOENEBECK: Yes, yes.

8 RICK TEMPLE: -- when it comes to restoration
9 of power and, you know, their efforts to try to get power
10 upload centers or, you know, switch gear in the different
11 units, and what the priority loads are.

12 GREG SCHOENEBECK: Sure, sure, sure.

13 RICK TEMPLE: If they've been damaged by
14 the explosion, or the flooding. And, you know, have
15 they, or what's going to happen to these backup sources
16 or their --

17 I know they got the one line in now. And
18 they've got the one transformer energized. But are they
19 looking at trying to prevent another aftershock from
20 taking that out?

21 Just about every -- Are they bringing in
22 other portable sources? What else are they doing? I'm
23 assuming they're not just, they're probably trying to
24 bring in more power, I would assume.

25 GREG SCHOENEBECK: Sure, sure. Right,

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1 right, right. Okay..

2 RICK TEMPLE: And then the other area --
3 That's one.

4 GREG SCHOENEBECK: All right.

5 RICK TEMPLE: And the other area is
6 instrumentation. We're trying to figure out what
7 instrumentation is available, you know, what have they
8 lost? Or do they have --

9 I know all our plants have an emergency
10 operations center. Do they have such a thing? Do they
11 have remote shutdown panels with instruments? Did they
12 get wiped out? Or are they trying to get them back?

13 And, you know, looking for information on
14 reactor containment and spent fuel pool conditions.
15 And just anything, any information I can get in that
16 area. I know that's a lot. And I know, probably
17 especially over the phone it's a lot.

18 I can send you an email, or send somebody
19 an email. We've got -- You wouldn't believe what's going
20 on here. I kind of sometimes think we've got to get
21 out of their way. But it's their own even.

22 GREG SCHOENEBECK: Yes, exactly.

23 RICK TEMPLE: We've now got all our own labs
24 involved. And on this instrumentation and electrical
25 team I've got a guy named Chris Grandy (phonetic) from

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1 Argon Lab involved. And there's two other guys involved.

2 I don't even know their names yet, Tim Lahey
3 (phonetic) from Idaho Lab. And a guy named, I can't
4 -- Some guy named Mark from Los Alamos. I don't even
5 know his last name. And there's some other people here.
6 And, I don't know.

7 I just, I'm just trying to figure out how
8 to make contact. And I tried calling some of the people.
9 I tried calling Bill Kemper and Mike Waterman and Cliff
10 Douth, some of the people that were actually there back
11 when I was there.

12 GREG SCHOENEBECK: Yes, yes.

13 RICK TEMPLE: I was trying not to, I was
14 trying to avoid having to call the Operations Center.
15 But it just got -- I left a message for Scott Morris,
16 and I left a message for some other people. And I never
17 got a reply. So I just went ahead and bit the bullet,
18 and --

19 GREG SCHOENEBECK: Sure, sure.

20 RICK TEMPLE: -- dialed the 816-5100 number.
21 And got passed around until I finally got to you.

22 GREG SCHOENEBECK: Okay.

23 RICK TEMPLE: So that's my story

24 GREG SCHOENEBECK: No, no. No problem there,
25 Rick. But what's the best? So would you rather do some

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1 face to face? Or I could probably --

2 RICK TEMPLE: Face to face would be cool.

3 GREG SCHOENEBECK: Yes.

4 RICK TEMPLE: Just because meeting with
5 people is always best.

6 GREG SCHOENEBECK: Are you thinking about
7 doing this today, still? Or are you thinking about --

8 RICK TEMPLE: Well it depends. I don't know
9 how you guys are set up. And I don't want to be a pain.

10 I don't want to be a pest.

11 GREG SCHOENEBECK: No, no.

12 RICK TEMPLE: I would like to -- So, I mean,
13 I could come down at any time.

14 GREG SCHOENEBECK: Sure, sure.

15 RICK TEMPLE: I mean, I could do it tomorrow
16 morning, whatever is --

17 GREG SCHOENEBECK: I can escort you up, so
18 we can get you a visitor badge. We can get you with
19 the right people. I'll put this out there. I'm not
20 electrically heavy, so I'm not the right contact.

21 But I will get you in the right direction.

22 So, sure. We're here. We're just coming on shift.

23 We're about to have our turnover. We're on the 1500
24 to 2300 watch.

25 RICK TEMPLE: Okay.

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1 GREG SCHOENEBECK: So once turnover is over,
2 you know, anytime after, you know 1530, 1600. Anytime,
3 we'll be here through 2300. So --

4 RICK TEMPLE: Okay.

5 GREG SCHOENEBECK: -- we'll have people.
6 We'll have a BWR expert down here. They should be able
7 to answer your questions. But I would say the first
8 step, why don't you just kind of send me, you know, contact
9 information. Just kind of briefly summarize what I did,
10 or what you had mentioned to me.

11 RICK TEMPLE: Okay.

12 GREG SCHOENEBECK: Phone number and what not.
13 And send it over to RST01.

14 RICK TEMPLE: RST01.

15 GREG SCHOENEBECK: Wait. Romeo, Sierra,
16 Tango, zero one.

17 RICK TEMPLE: RST01.

18 GREG SCHOENEBECK: Exactly. Dot hoc, Hotel,
19 Oscar, Charlie.

20 RICK TEMPLE: Okay.

21 GREG SCHOENEBECK: At NRC.gov.

22 RICK TEMPLE: Okay, NRC.gov. Okay, shall
23 I say attention to anybody?

24 GREG SCHOENEBECK: You can attention that
25 to Greg, first name Greg, last name Schoenebeck,

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1 S-C-H-O-E-N-E-B-E-C-K.

2 RICK TEMPLE: Okay.

3 GREG SCHOENEBECK: And then we'll take care
4 of you from there. So let us know if, you know, if you
5 want to come down. What would be a good time for you?
6 I'll see if it works on our end. And are you going
7 to be near a phone? Or obviously you have your cell
8 phone..

9 RICK TEMPLE: Yes. Well, I'm sorry. I got
10 (inaudible). What was your question again?

11 GREG SCHOENEBECK: Oh, I was going to say,
12 would you be -- My real question was, would you have
13 an email contact for me to maybe just to jot an email?

14 RICK TEMPLE: Yes, what I'll do --

15 GREG SCHOENEBECK: Or is it better to contact
16 by phone?

17 RICK TEMPLE: Yes. I'll give you both. Let
18 me give you my phone number I'm calling you from now.
19 That's the office phone. And of course has voice mail.

20 GREG SCHOENEBECK: Okay.

21 RICK TEMPLE: It's (b)(6)

22 GREG SCHOENEBECK: Okay.

23 RICK TEMPLE: (b)(6)

24 GREG SCHOENEBECK: (b)(6)

25 RICK TEMPLE: Right. (b)(6)

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1 GREG SCHOENEBECK: (b)(6) Okay..

2 RICK TEMPLE: Right. And what I'm going
3 to do is, I just sent an email. We actually have a DoE
4 contact. His name is Damien Pico (phonetic) --

5 GREG SCHOENEBECK: Okay.

6 RICK TEMPLE: -- over in Japan.

7 GREG SCHOENEBECK: Okay.

8 RICK TEMPLE: And I guess he's in Tokyo.
9 And we've been told that he can help get us information
10 too.

11 GREG SCHOENEBECK: Okay.

12 RICK TEMPLE: So, I mean, I'm trying
13 different avenues. I've sent him an email, just a little
14 bit ago, at 2:45.

15 GREG SCHOENEBECK: Okay.

16 RICK TEMPLE: About a half hour ago. So
17 what I'm going to do is, I'm going to forward that email
18 to this email address, with attention to you.

19 GREG SCHOENEBECK: Okay.

20 RICK TEMPLE: Because that describes the,
21 you know, what I'm doing, in the first paragraph. And
22 the information I'm interested in in the second paragraph.

23 GREG SCHOENEBECK: Perfect.

24 RICK TEMPLE: And that way you'll have that.
25 You'll also see the other people on distribution.

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1 They're some of the people, just in the electrical thing.

2 You can bring down other stuff too, if you're
3 interested in the overall NERT team, and that stuff.
4 I can kind of show you what we're up to. But again,
5 I mean, I don't want to -- I just want to -- I'm trying
6 to get some information to pass up the line.

7 GREG SCHOENEBECK: Sure, sure.

8 RICK TEMPLE: I don't want to be a -- And
9 I appreciate what you guys do, and don't want to --
10 But also understand, sometimes you get bored, and need
11 somebody to talk to. So maybe I'll be of benefit.

12 GREG SCHOENEBECK: Yes, sure. Certainly,
13 certainly. Anybody that, you know, I'm sure that can
14 provide some, you know, different agles of looking at
15 things, that's --

16 RICK TEMPLE: Sure.

17 GREG SCHOENEBECK: I don't see why it
18 wouldn't be a good thing.

19 RICK TEMPLE: Yes. I could also maybe even
20 pass on, you know, some of the stuff our labs are coming
21 up with.

22 GREG SCHOENEBECK: Okay, okay. Sure, sure.

23 RICK TEMPLE: Let me, can I get a number
24 where I can call you back?

25 GREG SCHOENEBECK: Yes, yes. Give me a call

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1 at 301-816.

2 RICK TEMPLE: 816.

3 GREG SCHOENEBECK: 5504.

4 RICK TEMPLE: 5504, okay. What I'm going
5 to do, we have a 5 o'clock meeting every day. I'm going
6 to try and get permission to maybe skip it and come down,
7 if that's good --

8 GREG SCHOENEBECK: Sure.

9 RICK TEMPLE: -- with you.

10 GREG SCHOENEBECK: Okay.

11 RICK TEMPLE: They may make me call in or
12 something, which might not be bad. Then you guys can
13 listen to what we're doing too.

14 GREG SCHOENEBECK: Yes.

15 RICK TEMPLE: If somebody's so inclined.

16 GREG SCHOENEBECK: Okay.

17 RICK TEMPLE: All right. Very good. I'll
18 just email now. And then I'll try and get back in touch
19 with your shortly. And I really appreciate your help.

20 GREG SCHOENEBECK: No. No problem, Rick.

21 No problem.

22 RICK TEMPLE: All right, Greg. Thank you
23 so much.

24 GREG SCHOENEBECK: You're welcome. Bye,
25 bye.

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RICK TEMPLE: Bye.

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1
2 (CONFERENCE CALL INITIATED)

3 GREG SCHOENEBECK: Reactor Safety Team, this
4 is Greg speaking.

5 HEADQUARTERS OPERATIONS OFFICER: This is
6 the HOO. I've got Debbie Williams from INPO on the line.

7 GREG SCHOENEBECK: Debbie Williams from INPO
8 on the line. Okay.

9 HEADQUARTERS OPERATIONS OFFICER:
10 Connecting you now.

11 GREG SCHOENEBECK: All right. Great.

12 DEBBIE WILLIAMS: Hello.

13 GREG SCHOENEBECK: Hello, this is Greg
14 Shoenebeck with the Reactor Safety Team.

15 DEBBIE WILLIAMS: Hey, Greg, this is Debbie
16 Williams with INPO.

17 GREG SCHOENEBECK: Okay.

18 DEBBIE WILLIAMS: I'm not sure who I need
19 to talk to.

20 GREG SCHOENEBECK: Okay. I'll see if I can
21 help you.

22 DEBBIE WILLIAMS: Okay. We had gotten a
23 request, I think it was late last week, either Thursday
24 or Friday, to look at issues with filling the spent fuel
25 pools, options for that.

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1 GREG SCHOENEBECK: Sure, sure.

2 DEBBIE WILLIAMS: And someone was working
3 on that. And as part of that, the question came out
4 of structural integrity of the (inaudible).

5 GREG SCHOENEBECK: Okay.

6 DEBBIE WILLIAMS: And we're trying to find
7 out -- Somehow we lost our records. Who's asked for
8 it? Is it really still a issue, since the plant decided
9 to put water in, and didn't choose another option? Or
10 are we providing calcs for no reason?

11 GREG SCHOENEBECK: Tell you what. I have
12 my spent fuel pool expert, who is actually working on
13 that. Can I just put you on hold for one second, Debbie?

14 DEBBIE WILLIAMS: Yes.

15 GREG SCHOENEBECK: And I'm going to get you
16 two to talk together, make sure, you know, what the path
17 forward is on that.

18 DEBBIE WILLIAMS: Okay, great.

19 GREG SCHOENEBECK: All right. Thanks,
20 Debbie.

21 (Inaudible background conversations)

22 JIM SHEA: NRC, Jim Shea.

23 DEBBIE WILLIAMS: Who is this?

24 JIM SHEA: Jim Shea, Ops.

25 DEBBIE WILLIAMS: Jim Shea.

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1 JIM SHEA: NRC Ops Center.

2 DEBBIE WILLIAMS: Okay. My name's Debbie
3 Williams with INPO. I'm part of the Emergency Response
4 Team here. And one of the items we had that came out
5 of, I think last Thursday, was we had initially looked
6 at options.

7 You guys, and everybody in industry looked
8 at options for filling the reactors in Japan. And some
9 of those were water, some were sand, different things.

10 JIM SHEA: Oh, you mean the spent fuel pool
11 options.

12 DEBBIE WILLIAMS: I'm sorry, spent fuel
13 pool.

14 JIM SHEA: Yes, the procedure.

15 DEBBIE WILLIAMS: Excuse me.

16 JIM SHEA: Yes.

17 DEBBIE WILLIAMS: And then one of the actions
18 we had of that was, if they choose an option, let's say
19 it's sand, that's different than water, what's the
20 structural integrity issues with the fuel pool?

21 JIM SHEA: Right.

22 DEBBIE WILLIAMS: And so we're trying to
23 figure out if that's still a valid question. Because
24 we got some indications from Tokyo Center, Wano (phonetic),
25 that was no longer a valid question. But we had understood

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1 that the question had come from the NRC. So --

2 JIM SHEA: Yes. It was kind of a, it was
3 just something we were working on, since probably last
4 Tuesday.

5 DEBBIE WILLIAMS: Oh, okay.

6 JIM SHEA: Was actually thinking ahead.

7 DEBBIE WILLIAMS: Sure.

8 JIM SHEA: And if we had to fill this thing
9 with sand --

10 DEBBIE WILLIAMS: Right.

11 JIM SHEA: -- what would the structural
12 affect be?

13 DEBBIE WILLIAMS: Right.

14 JIM SHEA: And since we have no drawings
15 or anything, we took the best --

16 DEBBIE WILLIAMS: Right.

17 JIM SHEA: -- shot and said, all right, this
18 thing looks a lot like, or it's similar design as Quad
19 Cities.

20 DEBBIE WILLIAMS: Quad Cities, yes.

21 JIM SHEA: So we had our structural guys
22 run off. We even contacted Quad Cities.

23 DEBBIE WILLIAMS: Right.

24 JIM SHEA: And got some of their information.
25 And got some drawings. And our guys put their head

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1 into it, and came up with like, you know, basically,
2 given the information we had, the best information they
3 could put together.

4 And it's essentially saying it just, they
5 said basically twice the weight of water. Now there's
6 a lot of ifs there. Because we're not sure between the
7 seismic event itself, and then the explosions of course.

8 DEBBIE WILLIAMS: Right.

9 JIM SHEA: And then never mind the tsunami.

10 What --

11 DEBBIE WILLIAMS: Right. And especially
12 Unit 4.

13 JIM SHEA: Right. So the whole point of
14 what we put together last Friday was kind of accumulation
15 of all that thinking.

16 DEBBIE WILLIAMS: Right.

17 JIM SHEA: All brought together, including
18 the whole idea of what would be the preferred option
19 of cooling the spent, a dry spent fuel pool.

20 DEBBIE WILLIAMS: Right.

21 JIM SHEA: And if it's not dry -- Because
22 we didn't know anything.

23 DEBBIE WILLIAMS: Right.

24 JIM SHEA: So we took it like an EOP approach

25 --

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1 DEBBIE WILLIAMS: Sure.

2 JIM SHEA: -- and said, if this, then that.

3 And that was kind of our strategy. But we had Bettis,
4 we had Knowles*, we had Research --

5 DEBBIE WILLIAMS: Right.

6 JIM SHEA: -- we had, all good stuff kind
7 of came out of that.

8 DEBBIE WILLIAMS: Right.

9 JIM SHEA: And we gave our best --

10 DEBBIE WILLIAMS: Right.

11 JIM SHEA: -- at the time recommendation,
12 which we passed to the --

13 DEBBIE WILLIAMS: Right.

14 JIM SHEA: -- field team.

15 DEBBIE WILLIAMS: Right. And that was for
16 the fill option.

17 JIM SHEA: Right.

18 DEBBIE WILLIAMS: And we had understood that.

19 And I think had participated, or listened in on those
20 calls.

21 JIM SHEA: Yes, yes. You guys were part
22 of that.

23 DEBBIE WILLIAMS: Right. And so we had --
24 Not me personally, but we had listened to those and
25 said, yes, we understand what's going on.

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1 JIM SHEA: Right.

2 DEBBIE WILLIAMS: So out of that, we somehow
3 internally got to go do to maybe try to understand more
4 about the structural integrity, based on the options,
5 especially if they were using something that was heavier.
6 And so, since Friday, actually GE and EPRI have been
7 working on some calcs. And they're also --

8 JIM SHEA: Have been working on what? What
9 was that again?

10 DEBBIE WILLIAMS: Some calculations.

11 JIM SHEA: Oh, okay.

12 DEBBIE WILLIAMS: For structural integrity.
13 And they had asked for different information, drawing
14 and data, and stuff like that. So we're trying to figure
15 out, is it still needed? Is doesn't sound like it is.

16 JIM SHEA: Well, it's one of those things
17 that -- Yes, it may not be needed. But then again, the
18 next step may be, we're already looking ahead at possibly
19 --

20 DEBBIE WILLIAMS: Right.

21 JIM SHEA: -- entombment.

22 DEBBIE WILLIAMS: Right.

23 JIM SHEA: I mean, at some point, it depends
24 on the shape of these --

25 DEBBIE WILLIAMS: Right.

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1 JIM SHEA: -- which none of us know.

2 DEBBIE WILLIAMS: Right.

3 JIM SHEA: That maybe the next step is
4 entombment. And we already have people like Oakridge,
5 who's come up with criteria --

6 DEBBIE WILLIAMS: Okay.

7 JIM SHEA: -- that I sent into center this
8 morning, from some of our experts on -- We also put
9 in there a criticality. See, with that fuel pool we
10 put in the potential option sand, which was equally as
11 good as water, we felt.

12 DEBBIE WILLIAMS: Right.

13 JIM SHEA: After it boiled down, hate to
14 use the pun, but from all these wild things, from even
15 putting argon to -- And even maybe foam and all that.

16 DEBBIE WILLIAMS: Right.

17 JIM SHEA: So we came down with the sand
18 and the water. And on top of that, how much sand may
19 impact the weight.

20 DEBBIE WILLIAMS: Okay.

21 JIM SHEA: And then, in addition, we looked
22 at criticality. Is the potential for the fuel pool to
23 go critical. And we had our guy, we had some experts
24 here. And we backed it up with some Oakridge.

25 DEBBIE WILLIAMS: Okay.

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1 JIM SHEA: And so we bundled all that up
2 together and sent it. But now we're, you know, the next
3 step, Oakridge is looking at it as, you know, here's
4 the criterial for entombment. What kind of materials
5 would you want to use? Heat transfer? You know, you
6 don't want to go critical, these things.

7 DEBBIE WILLIAMS: Right.

8 JIM SHEA: So they're looking at that. I
9 think they're still working on that. They came up with
10 the criteria.

11 DEBBIE WILLIAMS: Right.

12 JIM SHEA: Haven't come up with materials
13 yet. So this thing is still an active --

14 DEBBIE WILLIAMS: Right.

15 JIM SHEA: -- ongoing, given the fact that
16 on the ground, I mean, you still see the pictures.

17 DEBBIE WILLIAMS: Oh, yes.

18 JIM SHEA: And the issue with Unit 3 is,
19 I think is still ongoing. And, you know, don't know
20 how that's going to end up.

21 DEBBIE WILLIAMS: Sure. And I think what
22 we're saying is, we are definitely more than willing
23 to support questions, or any more calcs or analysis to
24 do whatever.

25 JIM SHEA: Right.

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1 DEBBIE WILLIAMS: But this particular one
2 that was more related to structural integrity due to
3 --

4 JIM SHEA: Right.

5 DEBBIE WILLIAMS: -- having sand in there,
6 or something.

7 JIM SHEA: Yes.

8 DEBBIE WILLIAMS: That doesn't sound like
9 to me, that particular one thing is still needed. I'm
10 saying --

11 JIM SHEA: Oh, right. Yes.

12 DEBBIE WILLIAMS: -- we'll keep the data
13 we have.

14 JIM SHEA: Right. Because we got a result.
15 We got a data. And we sent that number to the Japan
16 folks --

17 DEBBIE WILLIAMS: Okay.

18 JIM SHEA: -- our team there. And they can
19 pass it to TEPCO.

20 DEBBIE WILLIAMS: Okay.

21 JIM SHEA: And they can use it as they will.
22 That was the whole point of it.

23 DEBBIE WILLIAMS: Okay. And that's what
24 I wanted to verify.

25 JIM SHEA: Yes.

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1 DEBBIE WILLIAMS: Because that's the
2 feedback we got back from Wano Center, Tokyo.

3 JIM SHEA: Yes.

4 DEBBIEWILLIAMS: Is that, that was no longer
5 needed. And we didn't want to just stop work, if the
6 NRC was waiting for something.

7 JIM SHEA: No. But I just happened to walk
8 in.

9 DEBBIE WILLIAMS: I'm sorry.

10 JIM SHEA: I'm sorry. Somebody was talking
11 to me.

12 DEBBIE WILLIAMS: That's fine. I was just
13 trying to go the whole communication route.

14 JIM SHEA: No, no, that's fine. I was
15 interrupted.

16 DEBBIE WILLIAMS: That's all right.

17 JIM SHEA: This place is -- You couldn't
18 imagine. It's crazy.

19 DEBBIE WILLIAMS: I can't imagine. I can't
20 imagine.

21 JIM SHEA: This place is crazy. Well your
22 place is probably crazy too.

23 DEBBIE WILLIAMS: Yes, it is.

24 JIM SHEA: This is just, it's like a fire
25 hose, and trying to drink.

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1 DEBBIE WILLIAMS: Absolutely. It's like
2 being in outage, multiplied ten times.

3 JIM SHEA: No, I know. I was the creek
4 operator. So that's a road there. So I said, this has
5 been the worst week, last week, that I ever had.

6 DEBBIE WILLIAMS: Yes. I used to be a shift
7 outage manager.

8 JIM SHEA: Oh, okay.

9 DEBBIE WILLIAMS: So, you know. So I
10 understand.

11 JIM SHEA: So you know.

12 DEBBIE WILLIAMS: Yes. That's why I'm
13 trying to close the loop on the communications.

14 JIM SHEA: Oh, sure.

15 DEBBIE WILLIAMS: Overcommunicate, instead
16 of under.

17 JIM SHEA: Yes. Hey, by the way, since I
18 got you. I sent the center there -- I understand they're
19 going to be getting together a SAM-G type of team --

20 DEBBIE WILLIAMS: Yes.

21 JIM SHEA: -- together, that they evaluate
22 that.

23 DEBBIE WILLIAMS: Yes.

24 JIM SHEA: And I gave them a name of somebody.
25 Somebody who's part of the BWR owner's group. And is

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1 pretty much an, you know, high level expert in this area.

2 And developed all the SAM-Gs.

3 DEBBIE WILLIAMS: Oh, wow.

4 JIM SHEA: And the EOPs as part of that.

5 And was probably 30 years working on the SAM-Gs.

6 DEBBIE WILLIAMS: Okay.

7 JIM SHEA: So anyway, I gave them the name
8 down there. And --

9 DEBBIE WILLIAMS: Do you know who you sent
10 it to?

11 JIM SHEA: I just sent it to the INPO EOC.
12 It was like late on Friday. It was the last thing I
13 did. Because I had told them two days before. This is
14 how busy it was. Two days before that we were on a phone
15 call. And I mentioned that, hey, I know somebody you
16 might be interested in, at least, you know.

17 DEBBIE WILLIAMS: Okay. And so I'm sure
18 it went to the Emergency Coordinator here.

19 JIM SHEA: Yes.

20 DEBBIE WILLIAMS: And I'll just verify that
21 with him.

22 JIM SHEA: Right. So --

23 DEBBIE WILLIAMS: Do you know the guy's name?
24 That way I can verify a name.

25 JIM SHEA: Oh, no. I have no idea. I just

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1 --

2 DEBBIE WILLIAMS: Okay, never mind.

3 JIM SHEA: -- sent it to the --

4 DEBBIE WILLIAMS: So he got it. And I'll
5 verify he's got it.

6 JIM SHEA: Anyway, there's --

7 DEBBIE WILLIAMS: And you said you sent it
8 late Friday.

9 JIM SHEA: Just in case you're looking for
10 people who know how this thing works.

11 DEBBIE WILLIAMS: Okay.

12 JIM SHEA: I sent that name out.

13 DEBBIE WILLIAMS: Great.

14 JIMSHEA: And I think he's retired. I talked
15 to him. He said -- In fact, he's been kind of my advisor
16 on the side, as I go through this thing --

17 DEBBIE WILLIAMS: Okay.

18 JIM SHEA: -- as the BWR expert here at the
19 NRC.

20 DEBBIE WILLIAMS: Okay. Cool.

21 JIM SHEA: But anyway --

22 DEBBIE WILLIAMS: All right.

23 JIM SHEA: I mean, anyway, but --

24 DEBBIE WILLIAMS: Well thank you, Jim.

25 JIM SHEA: Sure.

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1 DEBBIE WILLIAMS: I appreciate it.

2 JIM SHEA: No problem.

3 DEBBIE WILLIAMS: And I appreciate it.

4 JIM SHEA: Sure.

5 DEBBIE WILLIAMS: All right. Bye, bye.

6 JIM SHEA: All right. Bye.

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(CONFERENCE CALL INITIATED)

GREG SCHOENEBECK: Reactor Safety Team.

This is Greg speaking.

HEADQUARTERS OPERATIONS OFFICER: I have Mr. Temple from DoE for Mr. Schoenebeck.

GREG SCHOENEBECK: Okay, sure. Send him over. Thanks.

RICK TEMPLE: Hello.

GREG SCHOENEBECK: Hey, Rick, it's Greg Schoenebeck.

RICK TEMPLE: Oh, hey, Greg. How are you doing?

GREG SCHOENEBECK: Good, good, good.

RICK TEMPLE: Good. I tried that number you gave me, and it didn't seem to work.

GREG SCHOENEBECK: Oh.

RICK TEMPLE: So I had to go through the Ops Center.

GREG SCHOENEBECK: Interesting.

RICK TEMPLE: I may have written it down wrong. That may be the problem. I have 301-816-5504.

GREG SCHOENEBECK: Yes, you know, that's weird. I don't know why that's not going through. Instead, next time -- Let's see, I'm trying to figure

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1 out what's a good one to get you in on here. Try, you
2 know -- Shoot, that's so odd why that's not working.
3 Try 5505, I guess, you know, instead of 5504.

4 RICK TEMPLE: Okay.

5 GREG SCHOENEBECK: Maybe there's something
6 wrong with incoming on that one. But if not, I guess
7 -- Sorry. Just go through the HOO.

8 RICK TEMPLE: Yes.

9 GREG SCHOENEBECK: I don't know why that's
10 not working. I'll talk to somebody about that. So how
11 can I help you?

12 RICK TEMPLE: Well, I wanted to see if, I
13 guess, what times might be good. If now is good, I think
14 I'll head down now. If not, later, or tomorrow morning,
15 or --

16 GREG SCHOENEBECK: Tell you what, I wanted
17 to give our BWX time to kind of get a look at your email.

18 RICK TEMPLE: Oh, okay.

19 GREG SCHOENEBECK: We just kind of, we did
20 the turnover. We're just working on our agency's briefing
21 paper for 1800.

22 RICK TEMPLE: Right.

23 GREG SCHOENEBECK: So yes, yes.

24 RICK TEMPLE: I know exactly how that goes.

25 GREG SCHOENEBECK: So I would say, let me

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1 give you a call back when he would be ready. How's that
2 sound?

3 RICK TEMPLE: No, that would be fine. You
4 think we're talking today or tomorrow?

5 GREG SCHOENEBECK: Today should be fine.

6 RICK TEMPLE: Today, okay.

7 GREG SCHOENEBECK: Today should be fine.

8 RICK TEMPLE: I've got a meeting that runs
9 from like 5:00 to 6:00.

10 GREG SCHOENEBECK: 5:00 to 6:00.

11 RICK TEMPLE: So, does it look like before
12 that would be possible?

13 GREG SCHOENEBECK: Yes, I think so. You
14 know what, I mean, by the time he looks at your questions
15 on the way down, I think you should be fine.

16 RICK TEMPLE: Yes, I mean, it could be --
17 Even if he doesn't know.

18 GREG SCHOENEBECK: Yes.

19 RICK TEMPLE: Just to make a contact --

20 GREG SCHOENEBECK: Yes.

21 RICK TEMPLE: -- and exchange phone numbers
22 would be like --

23 GREG SCHOENEBECK: Sure, sure. Not a
24 problem.

25 RICK TEMPLE: -- a lot.

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1 GREG SCHOENEBECK: Not a problem So tell
2 you what, I'm going to give you my cell phone. Just
3 because, when you get down here, just call me directly
4 And I'll come down and we can get you escorted and bring
5 you up.

6 RICK TEMPLE: Okay.

7 GREG SCHOENEBECK: So whenever you're
8 ready..

9 RICK TEMPLE: All right.

10 GREG SCHOENEBECK: Okay. 760.

11 RICK TEMPLE: 760.

12 GREG SCHOENEBECK: 277.

13 RICK TEMPLE: 277.

14 GREG SCHOENEBECK: 1833.

15 RICK TEMPLE: 1833. Okay. And I should
16 wait to hear from you before heading down?

17 GREG SCHOENEBECK: No. I would just say,
18 just come on down.

19 RICK TEMPLE: Oh, okay.

20 GREG SCHOENEBECK: Just come on down.

21 RICK TEMPLE: Fine.

22 GREG SCHOENEBECK: And then, but what I'm
23 saying, by the time you drive down, I think he should
24 have it by then.

25 RICK TEMPLE: Okay.

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1 GREG SCHOENEBECK: And then we can get you
2 aligned with the right people.

3 RICK TEMPLE: And like I said, even if not,
4 just to be able to spend a few minutes with somebody
5 would probably be well worth it.

6 GREG SCHOENEBECK: Okay, great.

7 RICK TEMPLE: Fantastic, Greg. All right.
8 I'll take off here in a couple of minutes..

9 GREG SCHOENEBECK: Okay.

10 RICK TEMPLE: And see you probably in like
11 a half hour or so.

12 GREG SCHOENEBECK: All right. Sounds
13 great.

14 RICK TEMPLE: All right, great.

15 GREG SCHOENEBECK: Just give me a holler.

16 RICK TEMPLE: Thank you.

17 GREG SCHOENEBECK: All right.

18 RICK TEMPLE: Bye, bye.

19 GREG SCHOENEBECK: Bye.
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Title: Japan's Fukushima Daiichi
RST Coordinator Audio Files

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(CONFERENCE CALL INITIATED)

RICK HASSELBERG: Reactor Safety Team,
Hasselberg.

HEADQUARTERS OPERATIONS OFFICER: Hey, Rick.
Yes, this is Vince, HOO. Hey, we have INPO and GE on
the line on the 2456 code to evaluate the TEPCO salt
accumulation.

RICK HASSELBERG: Yes.

HEADQUARTERS OPERATIONS OFFICER: And
there's no one from the RST on the line with then.

RICK HASSELBERG: Okay. We're on a 10
o'clock with INPO right now. But it may be a different
10 o'clock.

HEADQUARTERS OPERATIONS OFFICER: There's
a 10 o'clock consortium call.

RICK HASSELBERG: Okay.

HEADQUARTERS OPERATIONS OFFICER: It's like
industry consortium.

RICK HASSELBERG: Yes.

HEADQUARTERS OPERATIONS OFFICER: This
other call that GE and INPO is on deals specifically
with validating the TEPCO salt accumulation.

RICK HASSELBERG: Okay. All right. And
what line are they on now? Are they on the counterpart

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1 bridge?

2 HEADQUARTERS OPERATIONS OFFICER: No. No,
3 not at all. They called in the 800 number.

4 RICK HASSELBERG: Oh, okay. Then I'm
5 confused. Because -- Hang on one second. What's that
6 number?

7 HEADQUARTERS OPERATIONS OFFICER: I'm going
8 to transfer you over.

9 RICK HASSELBERG: Okay.

10 HEADQUARTERS OPERATIONS OFFICER: I'm going
11 to transfer you over, okay.

12 RICK HASSELBERG: Okay.

13 HEADQUARTERS OPERATIONS OFFICER: And it's
14 code (b)(6) I'm going to transfer you.

15 RICK HASSELBERG: (b)(6) Hello.

16 RECORDING: Followed by the pound key.
17 Thank you. After the tone, please state your name and
18 organization, followed by the pound key.

19 RICK HASSELBERG: Rick Hasselberg, USNRC.
20 Hello, this is Rick Hasselberg at the NRC Reactor Safety
21 Team. Who's on the line, please?

22 FEMALE PARTICIPANT: We have INPO Emergency
23 Response Center Team here.

24 RICK HASSELBERG: Okay. Sorry about this
25 INPO. We're talking to INPO, I guess at senior management

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1 level. And we were somewhat confused. I think we may
2 be on the wrong bridge. We're getting it straightened
3 out now. Okay. And our apologies for that.

4 MALE PARTICIPANT: You also have GE
5 engineering in Wilmington, North Carolina.

6 RICK HASSELBERG: Okay. Thank you, GE. And
7 if I understand, the subject here is concentrated on
8 the salt buildup issue. Is that correct?

9 MALE PARTICIPANT: That's correct.

10 RICK HASSELBERG: Okay. Let me make sure
11 I get the right technical guys on here. My apologies.
12 We're monitoring another call. So if you just give
13 me one second?

14 FEMALE PARTICIPANT: Okay.

15 RICK HASSELBERG: All right. Thanks.

16 TONY MENDIOLA: Okay, INPO, GE?

17 FEMALE PARTICIPANT: Yes.

18 TONY MENDIOLA: There you are. Sorry about
19 that. Come on over here guys. Good morning, this is
20 Tony Mendiola from NRC headquarters.

21 DEBBIE WILLIAMS (phonetic): Hello. This
22 is INPO Emergency Response Center Team.

23 PAUL NICHOLS (phonetic): GEH Wilmington
24 Team. This is Paul Nichols, Tony.

25 DEBBIE WILLIAMS: This is Debbie Williams.

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1 TONY MENDIOLA: Debbie, good morning, Paul.

2 PAUL NICHOLS: Good morning.

3 TONY MENDIOLA: We're ready to go. Whoever
4 wants to lead, either Paul or Debbie.

5 ANDY LINGENFELTER (phonetic): I guess --
6 Hey, Tony, this is Andy Lingenfelter. Maybe our first
7 question would be, can you send us your salt accumulation
8 calculations? So we can take a look at how you've done
9 it, and your substance. And then we can kind of look
10 and see if we --

11 PAUL NICHOLS: The email we got alludes to
12 it being in the Power Point. But there didn't seem to
13 be enough information there.

14 ANDY LINGENFELTER: Maybe that was actually
15 TEPCO's calculations. I don't know.

16 TONY MENDIOLA: I happen to know that TEPCO
17 did one. But it's rudimentary in the Power Point.

18 ANDY LINGENFELTER: So it just -- I'm sorry.
19 Okay.

20 DEBBIE WILLIAMS: So I know we're stating
21 the same thing from an INPO point of view. But we wanted
22 to validate too. So that's all we've got is that salt
23 accumulation calc that's in the Power Point?

24 PAUL NICHOLS: I wouldn't even call it a
25 calc, to tell you the truth.

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1 DEBBIE WILLIAMS: Yes. Because this uses
2 the words validate the calc. So does this validate some
3 of their assumptions maybe? And the white papers seem
4 to be more chemistry issues, versus some of the other
5 questions about core cooling and criticality, things
6 likethat. Soitwasmorefocusedonthechemistryaspects.

7 What I would like to suggest, if you don't
8 mind. Can we go through at least the first, question
9 by question, talk about who, where we're at with either
10 our thinking on it, or what questions we as a group want
11 to validate on it. And if we have any information we
12 need or can share. How's that for a suggestion?

13 ANDY LINGENFELTER: Sounds good.

14 DEBBIE WILLIAMS: Okay. So let's start with
15 the question. And we were talking about it. So let's
16 start there. What we got was, the NRC would like us
17 to validate their salt accumulation calcs.

18 Do we agree that they would lose core cooling
19 by March 31st. And I'm just a facilitator. I have a
20 room full of people here who will be talking. So we
21 want to talk about what we know about it, what we need
22 to know about it, things like that.

23 MALE PARTICIPANT: So, Bob.

24 BOB BURNHAM (phonetic): Yes, Bob Burnham
25 with the INPO engineering department. And I've been

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1 working with Eddie Gibson (phonetic) with Southern, and
2 Perry Childress (phonetic) with Duke, on Question 1.

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16 (b)(4) Anything you want to
17 add to that Eddie?

18 EDDIE GIBSON: (b)(4)

19 (b)(4)
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21

22 TONY MENDIOLA: Yes, this is Tony Mendiola.

23 That was the general context of the conversation, was
24 not the buildup of the salt and the scaling within the
25 core, but a buildup of the salt collecting at the bottom

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1 in the inlet plenum.

2 (Inaudible) time as they continue to put
3 seawater in there. And the water leaves the steam, and
4 the salt collects at the bottom. That builds up to a
5 point where it would completely fill the inlet plenum.

6 So that it would block additional cooling
7 flow to the core. Air calculations that this would occur
8 for the unit, captured in the Power Point slides. March
9 31st I think for Units 1 and 2, and April 2nd for Unit
10 3.

11 What it was, was not the scaling associated
12 with either magnesium or calcium. But instead the
13 (inaudible) of the salt at the bottom of the, underneath
14 the core. And therefore blocking the inlet to the core.

15 EDDIE GIBSON: Okay.

16 TONY MENDIOLA: Now with that though,
17 there's a caveat. As we understand it, as I explained
18 last night, 1, they're using core spray for injection,
19 which of course means the water is at the top (inaudible)
20 down through the core.

21 And we're using injection in the reactor
22 recirc loop, which means that the water was coming up
23 from underneath. So we were trying to determine if that
24 had some effect on where the salt would actually collect
25 first. Eventually it would end up underneath.

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1 But if it collects up on top first, on Unit
2 1, was something we were trying to (inaudible). And
3 we were not able to (inaudible) that I saw last night
4 when we were talking to them.

5 Fundamentally, this becomes a precipitation
6 problem, figuring that it has been precipitating since
7 initial use. And how much does that height of salt at
8 the bottom of the core (inaudible) critical when it blocks
9 the (inaudible).

10 MALE PARTICIPANT: Okay.

11 BOB BURNHAM: All right. Okay. We got our
12 handle on what the basis for that is. Okay.

13 DEBBIE WILLIAMS: And Tom Kane (phonetic)
14 from GE. I understand that you were one of the people
15 that was going to work on this particular issue?

16 TOM KANE: Well, I'll coordinate with
17 probably Andy Lingenfelter in terms of who has the lead
18 on it.

19 ANDY LINGENFELTER: Just as we talked about
20 it, I'm listening to this. I think that we'll get somebody
21 to do this that's done the boil off calculation already.

22 I think the one at one. We'll use that to help us
23 understand how the salt accumulates. So you've got the
24 direction I'm going to head with GE.

25 TOM KANE: Yes.

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1 DEBBIE WILLIAMS: So that was Andy talking?

2 ANDY LINGENFELTER: Yes.

3 DEBBIE WILLIAMS: So, Andy, I guess we'll
4 get Bob to get in touch with you about this as you guys
5 continue. That's kind of why we're trying to, you know,
6 make the matches of who needs to work on this.

7 ANDY LINGENFELTER: Yes. On that, what is
8 the flow path though that you're using? If it goes in
9 as the core spray area, what are you considering to be
10 that goes out? Are you using the recirc seals? Or, we
11 saw they're venting through the SRVs --

12 TONY MENDIOLA: Venting through the SRVs.

13 ANDY LINGENFELTER: Okay. So you're
14 assuming that then the vessel is wholly filled, and just
15 overflowing out through the SRVs?

16 TOM KANE: It's steaming through the SRVs

17 TONY MENDIOLA: Yes, steaming through the
18 SRVs. Everything else is left behind.

19 CARL HOLLER (phonetic): And that'
20 discussion's over Unit 1. Is there --

21 DEBBIE WILLIAMS: This whole discussion is
22 Unit 1.

23 CARL HOLLER: Right. Correct. And when
24 we're done with Unit 1, then I think we need to understand
25 (inaudible) working on something for Unit 2 as well.

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1 Because with the coolant coming in the bottom, if there's
2 concerns over similar situations on Unit 2 and 3.

3 TONY MENDIOLA: Yes, there are, yes.

4 PAUL NICHOLS: Yes. There are situations.

5 CARL HOLLER: Okay, do we -- This is Carl
6 Holler over at INPO. I'm sorry, I'm sitting in the room.

7 So is there -- I'm going to ask anybody on the phone,
8 is there other information that we need to understand
9 for Units 2 and 3, the flow path, or anything that wasn't
10 in the information provided?

11 PAUL NICHOLS: It's our understanding from
12 the NEI meeting that all three units, the water, the
13 seawater's being injected through the core spray. And
14 all being vented through the SRVs.

15 TOM KANE: I think from here at INPO we have
16 information that for Units 2 and 3 that it was being
17 injected via a (indiscernible, possible "lift tee") Bravo.
18 We got that from the NRC several nights ago. Was the
19 injection path, not through core spray.

20 PAUL NICHOLS: Yes. I think it's not clear.
21 Because they reported flow rates through the lift tee
22 Bravo accident management panel. But we have a status
23 sheet today that says they're injecting through core
24 spray, seawater through core spray.

25 TONY MENDIOLA: This is Tony Mendiola. From

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1 our phone call last night, TEPCO did clarify that the
2 injection path for Units 2 and 3 (inaudible) pump loops
3 at the recirc (inaudible).

4 PAUL NICHOLS: Say that again, Tony. We
5 did not catch that.

6 TONY MENDIOLA: Yes. That the injection
7 path for the seawater flow was through the loops on Units
8 2 and 3. Core spray for Unit 1.

9 CARL HOLLER: Okay. Through the loops for
10 --

11 MALE PARTICIPANT: That's for when, to weigh
12 you down.

13 CARL HOLLER: That's correct. Okay.

14 TONY MENDIOLA: We did verify that last
15 night.

16 CARL HOLLER: All right. All right. So on
17 Question Number 1, we sort of talked through what we
18 know. It sounds like there isn't a -- I think I surmised
19 there wasn't a calculation, more detailed calculation
20 from TEPCO that we have.

21 But we understand though the issue the
22 industry's concerned with about blocking, and the
23 (inaudible) coming out. And accumulating on the bottom
24 and ultimately blocking the flow on the bottom, okay.
25 Is there anything else we can do with this cluster,

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1 any professional opinions to share at this point --

2 BOB BURNHAM: We would like to talk to Andy
3 following this phone call. Andy and Gibson. We'll call
4 Andy.

5 DEBBIE WILLIAMS: So, Andy, we didn't have
6 your specific phone number. We only had the general
7 number. Do you mind --

8 ANDY LINGENFELTER: Yes, you can call me
9 on my cell phone at (b)(6)

10 DEBBIE WILLIAMS: So it's (b)(6)

11 ANDY LINGENFELTER: Yes, ma'am.

12 DEBBIE WILLIAMS: Okay. Thank you. You
13 should be expecting a call from Bob Burnham after this
14 phone call on Question 1. So let's go on to Question
15 2, unless there's some stuff from GE you'd like to talk
16 about, about this.

17 TONY MENDIOLA: This is Tony Mendiola. One
18 more thing. The Japanese use their version of EPRI to
19 do some of this work. It's a package they talk about.

20 It's the estimation was based on the support
21 of CRIEPI. I don't know how to pronounce it exactly.
22 It's their version of EPRI. And they use them as a verifier
23 of the information that led to the rough estimation of
24 the time limits for the units.

25 I don't know if there's anything to be gained

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1 from that. We don't have a copy of that analysis, if
2 there was an analysis done. But it is something else
3 that's out there that may offer some information.

4 DEBBIE WILLIAMS: So has that got a document
5 number, or anything like that, that we can --

6 TONY MENDIOLA: No. If you have a copy of
7 the TEPCO slides from last night, it's on one of the
8 last pages, final rough estimation of --

9 DEBBIE WILLIAMS: Okay. So it's just got
10 the names, support of CRIEPI?

11 TONY MENDIOLA: Right. I don't know if
12 there's any way that information's available. But --

13 CARL HOLLER: All right.

14 DEBBIE WILLIAMS: Okay.

15 TONY MENDIOLA: And some (inaudible).

16 CARL HOLLER: We might be able to make some
17 calls and figure that out.

18 DEBBIE WILLIAMS: Yes.

19 CARL HOLLER: All right, Deb.

20 DEBBIE WILLIAMS: Okay. So do we want to
21 go on to Question 2? It's, are there other methods of
22 core cooling, or potential ways to inject into the core?
23 What do we feel is the preferred method of long term
24 cooling is what we had written down. That still the
25 right question? And who's working on it? And we'll start

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1 from our side. Mike Rando (phonetic).

2 MIKE RANDO: Well, from our side, you know,
3 I said to the GE folks earlier. But we've got an old
4 set of drawings, you know, in one book. And some SAM-G
5 information from some other domestic utilities, that
6 we were just going through the various options, as far
7 as injection flow paths.

8 And then also, you know, potential sources
9 of fresh water. So really, that's what we've done so
10 far is brainstorm. So, you know, we would be looking
11 for, you know, what does the NRC have on that, if they
12 have already done that. And the same token, you know,
13 if GE has done any work on that too.

14 TOM BOYCE: Well, from NRC's side, I think
15 we were following the same type of approach, you know.
16 We just picked them up with --

17 ANDY LINGENFELTER: Seems like you're
18 dropping out. We're not hearing everything.

19 PAUL NICHOLS: I think your speaker phone,
20 you need to get just a little closer so it picks up your
21 voice.

22 TOM BOYCE: Let me try again. We're
23 following the same general approach. And we just pulled
24 up, I think, Dresden's (phonetic) drawings. And we're
25 going through them.

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1 And separately we're going through their
2 EOPs, which is, I guess an outgrowth of the SAM-Gs.
3 And then trying to just establish the various potential
4 paths.

5 PAUL NICHOLS: So when you say their EOPs,
6 are you saying it's Dresden's EOPs?

7 TOM BOYCE: I believe so.

8 PAUL NICHOLS: Because we've done that.
9 We have Quad City's EOPs, and hash, plan hash EOPs.
10 We do not have Dresden's. But they should be somewhat
11 familiar.

12 TOM BOYCE: Okay. Well, we're going down
13 the same path, the same line of thinking. So if nothing
14 else, we can come up with the same lists, or compare
15 lists.

16 PAUL NICHOLS: So who's the lead person then,
17 from the NRC, that's doing that?

18 TOM BOYCE: It was done by my predecessor
19 on the shift.

20 PAUL NICHOLS: Who am I talking to?

21 TOM BOYCE: This is Tom Boyce of NRC. I'm
22 the Reactor Safety Team member at the moment. I may
23 have done that. But I think we'd be looking --

24 FRED BROWN: Fred Brown, Reactor Safety Team
25 Director. Our intent was to distribute -- I think we

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1 had a series of questions that diverted us. Something
2 I would suggest, as we look at priorities.

3 The information that we have is that they
4 tried to megger (phonetic) installed equipment. They
5 find grounds on existing motors. So conceptually, if
6 they're going to have to put in a replacement motor,
7 or replacement temporary pump motor, the further away
8 from the principal radiation sources, the better, from
9 a perspective of a priority as you evaluate this.

10 CARL HOLLER: That's helpful information.

11 And, Mike -- This is Carl Holler from INPO. But, Mike,
12 you were speaking. I'm not sure you said your name as
13 well. And if you want to get contact information with
14 Tom and Fred --

15 MIKE RANDO: Yes, Tom Boyce of the NRC, Mike
16 Rando. I was just trying, you know, to get some contact
17 information so that compare, you know, compare what we've
18 come up with basically, at some point in time.

19 And also the same thing would go for GE.

20 I don't know if the GE folks have got, you know, individual
21 responsibilities to work on this question also.

22 MORT BREEHAN (phonetic): This is Mort
23 Breehan from GE. Do we know for sure, like the information
24 that we have, you know, they said they've got seawater
25 that is connected, you know, on to a, it looks like maybe

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1 a flange or some point. Do we know exactly where they
2 are hooked on to put the water in for, you know, starting
3 out for Unit 1?

4 MIKE RANDO: INPO does not have that
5 information. I don't know if NRC has it.

6 MORT BREEHAN: I mean, I think it's sort
7 of helpful to know, if we can know exactly where they
8 have the water hooked in. And then, you know, you start
9 looking at other options. But that wasn't really clear.
10 We were trying to figure out how they would have tied
11 the seawater into the core spray.

12 FRED BROWN: I don't have that information
13 here.

14 MORT BREEHAN: You say you do?

15 TONY MENDIOLA: Do not.

16 MORT BREEHAN: Do not. Okay.

17 MIKE RANDO: Yes, I did not get anybody from
18 the NRC or GE contact information.

19 FRED BROWN: Yes. Or email to us if you
20 -- This is Fred Brown again. If you use our RST01 email,
21 which we have shared, I think, with many of the folks
22 on the line.

23 And if not, we can, I can get it. And then
24 to talk personally, just come through the switchboard
25 and ask for RST. And that way you'll get whoever's on

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1 shift.

2 DEBBIE WILLIAMS: Well, I'll tell you, we
3 tried that earlier. This is Debbie. I've been talking
4 to you guys over the last couple of days many times.
5 And that worsened today.

6 For some reason that didn't work. So I don't
7 know if there's a person on the switchboard that doesn't
8 understand. But they sent us to some menu. Called back
9 again, it didn't work. So, can you verify that they
10 understand if we call and ask for Reactor Safety Team,
11 we go to the right number.

12 FRED BROWN: Was that the 800 number that
13 you tried?

14 DEBBIE WILLIAMS: No. It was the
15 301-816-5100.

16 STEVE BLOOM: I think that -- This is Steve
17 Bloom. I think the problem was that there two simultaneous
18 calls with about the same name. And I think it confused
19 the HOO.

20 FRED BROWN: Yes. So let me give you a backup
21 number if that doesn't --

22 DEBBIE WILLIAMS: Okay.

23 FRED BROWN: 301-816-5502.

24 DEBBIE WILLIAMS: Okay, 301-816-5502.

25 Thank you.

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1 FRED BROWN: Okay.

2 CARL HOLLER: This is Carl Holler at INPO.

3 On this Question Number 2 I want to go a little higher
4 level here. Is this actually about the core cooling,
5 or potential ways to inject it into the core.

6 Is this an exercise that is, the plant
7 equipment, they can't get the motors back because of
8 all the flooding, you know, whatever the case may be.

9 Is this also an exercise in totally different out of
10 the box thinking? Or using the systems they have? Or
11 we don't know?

12 MIKE RANDO: I'll tell you -- This is Mike
13 Rando from INPO again. What we have looked at from an
14 operations perspective is, we're not looking at it
15 necessarily as, hey, you've got an entire, say RHR system,
16 or entire control drive system.

17 (b)(4)
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25 CARL HOLLER: Thank you, Mike. This is Carl.

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1 Actually what I'm interested in is the perspective that
2 we're supposed to be looking at this question. Tom,
3 at the NRC, do you know?

4 FRED BROWN: This is Fred Brown.

5 CARL HOLLER: Sorry.

6 FRED BROWN: I would -- I had not talked
7 directly to our team. But I believe TEPCO could do the
8 obvious stuff without assistance. I believe that the
9 reason that they've reached out and asked for suggestions
10 would imply that the INPO approach is the appropriate
11 approach. And we'll attempt to confirm that morning
12 Japan time.

13 DEBBIE WILLIAMS: That will be after this
14 is due. Because I understand we're going to have a call
15 at 4:00, and pretty much compile what we know, right?

16 FRED BROWN: Right.

17 CARL HOLLER: So maybe we should just go
18 down the road in perspective.

19 MIKE RANDO: Well the other thing, before
20 we go down that road, from the GE side, you know, who
21 the GE's lead is on this particular question.

22 ANDY LINGENFELTER: So if you could -- Paul
23 Nichols has the lead. But I don't know that we had somebody
24 assigned to this particular point.

25 MALE PARTICIPANT: Which one?

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1 ANDY LINGENFELTER: Number 2. Three we got,
2 Tom will do 1 and 3 (inaudible). But I don't know about
3 2.

4 MIKE RANDO: Give Paul the contact right
5 now.

6 ANDY LINGENFELTER: Yes. Paul Nichols is
7 the contact. So we'll have -- And you can call back
8 in to this line to talk to us.

9 DEBBIE WILLIAMS: And that's the GE ERC
10 number. Okay.

11 CARL HOLLER: Allright. Sowe go into Number
12 3.

13 DEBBIE WILLIAMS: All right. Do we want
14 to start on Number 3, which what are the potential methods
15 of flushing the salt solution out of the vessel?

16 BOB BURNHAM: Again, we haven't assigned.
17 But we don't have any more info on it for now.

18 CARL HOLLER: Also, this is Carl from INPO.
19 This is quite frankly in the order of priority against
20 time. This is probably a lower order of priority question.

21 I don't know how GE or the NRC feel. But
22 you could share that with us. Maybe we could, if we
23 think that's the case, maybe we could move on to another
24 question and come back to this in the end.

25 TONY MENDIOLA: Yes, this is Tony Mendiola

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1 in the NRC. The question of flushing is essentially
2 to remove the salt, which is secondary to stopping the
3 salt from building up. So I would tend to agree that
4 it's something we would want to do after fresh water
5 introduction.

6 DEBBIE WILLIAMS: Okay. So then let's go
7 to Question 4. Do we have any criticality concerns with
8 the inadvertent criticality in the reactor vessel? And
9 I'm going to turn it over to Bob Burnham again, from
10 INPO.

11 BOB BURNHAM: Yes, I'll sort of paraphrase
12 what, my discussions with Eddie. (b)(4)

13 (b)(4)
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22

23 Anything you want to add to that, Eddie?

24 EDDIE GIBSON: No. That's good.

25 TONY MENDIOLA: This is Tony Mendiola. On

1 the phone call last night, it fundamentally, it was an
2 open question. It basically said, how do we prevent
3 criticality in the next several days? Basically whatever
4 actions they're going to take.

5 It seemed that they were focused on the
6 introduction of fresh water, versus the salt water that's
7 already there. And it seems to be that, you know, whether
8 they would need to anticipate putting boron back into
9 the solution, once the fresh water flow had been
10 reestablished.

11 There was not a whole lot of detail or
12 conversation on it. But I think their concern is, if
13 they replace the salt water with the fresh water, what
14 would happen if they suddenly find themselves critical?

15 What could they do?

16 DEBBIE WILLIAMS: Or what can they do to
17 prevent it, right?

18 TONY MENDIOLA: Probably more that. What
19 can they do to prevent it ahead of time, so they don't
20 find themselves in the problem?

21 DEBBIE WILLIAMS: Okay.

22 TONY MENDIOLA: I think their concern, of
23 course, is if boron is the call, is there some way they
24 can work that out with, you know, maybe some sort of
25 special --

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1 Something planned ahead of time. Let's try
2 it that way. Something that they planned ahead to time
3 and put into place before they start putting the fresh
4 water in.

5 BOB BURNHAM: I would have assumed that they
6 continued with the boration, no matter what the water
7 source.

8 TONY MENDIOLA: They can't do it with the
9 salt water in there. And I guess there's some concerns
10 over where the salt may be collecting. And whether it
11 would affect the actual use of those (inaudible) systems.

12 BOB BURNHAM: So they aren't borating the
13 salt water?

14 TONY MENDIOLA: They are borating the salt
15 water. But I understand it's pretty fundamental.
16 Basically, what I understand, what I've heard, is that
17 they pump the water into a trench, they dump the borom
18 into that trench, and then they pump from that trench.

19 So the amount of mixing that's being done in that trench
20 of the boron is questionable.

21 MIKE RANDO: Question whether there would
22 be a problem introducing unborated fresh water?

23 TONY MENDIOLA: It could be that. Based
24 on the fact that they're not sure of the current (inaudible)
25 of the core and the current availability of the rods.

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1 TOM BOYCE: I think one of the concerns is
2 --

3 DEBBIE WILLIAMS: We've lost you.

4 TONY MENDIOLA: Yes, you've got to talk a
5 little louder.

6 TOM BOYCE: I'm sorry. I think one of the
7 concerns is that the control rods melt at a lower
8 temperature than the fuel. So they're questioning
9 whether the rods are still in there.

10 CARL HOLLER: Okay.

11 TONY MENDIOLA: So all that together is
12 probably the basis for their question. We didn't discuss
13 it in any detail last night. It was only just, hey,
14 what would you guys consider criticality when fresh water
15 is reintroduced.

16 CARL HOLLER: So, I think what I heard there
17 was a sequence and summary. A sequence of Number 1 maybe
18 the feasibility of the control rods melting, based on
19 what we know

20 Two, if they did, and you put fresh water
21 in, could the core go critical? So that 3, they could
22 determine whether they need to continue borating or not.

23 If they needed to continue borating. I think that's
24 what I heard there.

25 DEBBIE WILLIAMS: Or if we had any

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1 considerations for criticality, or any problems with
2 unborated water too. I think it's kind of the holistic
3 --

4 CARL HOLLER: Yes, kind of the whole --

5 DEBBIE WILLIAMS: Yes.

6 CARL HOLLER: Okay. That's more helpful.

7 And, GE, do you need anything else, or any clarification
8 on that question?

9 ANDY LINGENFELTER: I think we're okay.

10 DEBBIE WILLIAMS: So who's working on it
11 with you? Is that Andy again?

12 ANDY LINGENFELTER: No, that's Paul. But
13 I haven't assigned somebody yet. I'll have to get back
14 to you, Debbie.

15 DEBBIE WILLIAMS: Okay.

16 BOB BURNHAM: Yes, when you get that, if
17 you could email, or contact Debbie, she'll get it to
18 us.

19 ANDY LINGENFELTER: That's fine.

20 CARL HOLLER: All right.

21 DEBBIE WILLIAMS: All right. You want to
22 go to Question Number 5? Is there anything they can
23 do to reduce the risk of another potential hydrogen
24 explosion in the drywell and reactor building? And I'm
25 going to turn this over to, I'm going to have Bob Burnham

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1 and Mike Rando from INPO talk about that tone. I'll
2 let --

3 BOB BURNHAM: We haven't talked too much
4 about --

5 (Crosstalk)

6 DEBBIE WILLIAMS: Carl.

7 CARL HOLLER: Let me make a stab at it, okay.
8 I'll tell you what we've done with this so far. There
9 was question this morning of -- We're not sure of the
10 Japanese configuration in this particular unit. In the
11 United States, the units were changed after TMI.

12 So I had one of our guys from engineering
13 (inaudible) to get some pinned down facts of the
14 modifications that were done in the United States. Just
15 so that we know and don't have to speculate as we're
16 talking through it. But what we don't know really is
17 what the configuration was of the design in the Japanese
18 units. Does anyone know? Or could they help us with
19 that?

20 ANDY LINGENFELTER: The only thing we heard
21 last night, we asked them specifically whether they were
22 inerted, the containments were inerted. They said, yes
23 they were with nitrogen, all three of them. That's all
24 we know.

25 MIKE RANDO: Do we know anywhere when they

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1 initially vented containment, where they vented through,
2 what's the flow path they used?

3 CARL HOLLER: I don't have that detail.

4 FRED BROWN: We don't have that information
5 either, other than the fact that it apparently ended
6 up in the reactor building.

7 CARL HOLLER: And do we know if some of these
8 vent panels were hardened, if you will, with the
9 (inaudible) type things to go up the stack, like some
10 of the units were in the United States? The hydrogen
11 recombiners, if they existed or not? Any of those type
12 of things?

13 FRED BROWN: Yes, this is the NRC. We do
14 not know the status of those vents.

15 CARL HOLLER: Okay.

16 FRED BROWN: Hardened or not.

17 PAUL NICHOLS: And we from GEH have one email
18 that we have not been able to verify that the belief
19 was that the plant had the hardened vents. But we have
20 not been able to confirm that.

21 CARL HOLLER: Okay.

22 PAUL NICHOLS: So as far as the other items,
23 we haven't been able to confirm with the plant what they
24 implemented at this point.

25 CARL HOLLER: Okay. Maybe what I -- So we

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1 don't really know what the status is there.

2 PAUL NICHOLS: No.

3 CARL HOLLER: What I would suggest is, maybe
4 on this end we'll poke around in the building with some
5 of our liaison engineers from Japan. We won't have the
6 exact on Fukushima, but they may be able to help narrow
7 it down on this, and get us to the right people that
8 could get us the answer.

9 PAUL NICHOLS: Right. One other thing that
10 came from the phone call last night was why we mentioned,
11 well, could you reinert the containments with nitrogen.

12 They weren't sure that the system still exists
13 or is intact. And it didn't seem clear that they could
14 do that from outside the building. That was the part
15 they hadn't been able to --

16 CARL HOLLER: Still don't know the condition
17 of the inerting stuff then with nitrogen. Okay.

18 PAUL NICHOLS: They didn't know if it was
19 intact. And they didn't know if they could tap into
20 it from outside the building.

21 CARL HOLLER: Okay. All right. Thank you.

22 ANDY LINGENFELTER: I mean, if there was
23 -- We did see some, what was it, (b)(5)

24 (b)(5)

25

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(b)(5)

1
2
3
4 The pool up there was in the neighborhood
5 of, I think it was less than 100 degrees, or something
6 like that. But that one had a high number. So even if
7 they try to inert it, if there actually is a leak there,
8 then --

9 CARL HOLLER: It's not going to do any good
10 basically, or minimize the effect.

11 ANDY LINGENFELTER: It may leak out anyway.

12 CARL HOLLER: Yes. Okay. And that was Unit
13 3?

14 ANDY LINGENFELTER: That was Unit 3.

15 CARL HOLLER: All right. Do we know anything
16 about Unit 1 or 2?

17 ANDY LINGENFELTER: No. We didn't see any

18 (b)(5)

So that appears to be still okay.

19 At least from the top anyway.

20 CARL HOLLER: Okay.

21 TONY MENDIOLA: One more I wanted to say.

22 Tony Mendiola, NRC. One more thing from the phone call
23 last night. When we asked them, when they asked us about
24 the nitrogen issue, we asked them if there was specific
25 unit they were concerned about over any other. And they

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1 indicated that there was no unit in general. Just
2 basically that the units that are still, basically any
3 of them at the site.

4 CARL HOLLER: Yes. They have no preference
5 of concern over one unit over another.

6 TONY MENDIOLA: Yes. I think whatever
7 they're going to use, they're going to use wherever they
8 can, and however they can.

9 CARL HOLLER: Okay. All right, thank you.

10 DEBBIE WILLIAMS: So is anyone from DEH
11 working on this particular question?

12 FRED BROWN: Jeff Grogan (phonetic). And
13 we'll get you the numbers. We'll get you the phone numbers.

14 ANDY LINGENFELTER: I'll send them to you.

15 DEBBIE WILLIAMS: Okay. That will be fine.

16 CARL HOLLER: You'll send them to Deb.

17 DEBBIE WILLIAMS: And I'll get those --
18 You'll send them to me, and I will get them distributed.

19 ANDY LINGENFELTER: Yes, I'll send them to
20 your ERC email number.

21 DEBBIE WILLIAMS: Okay. Good.

22 MOREY GREENHAM (phonetic): Hey, this is
23 Morey Greenham. Just wondering, does the U.S. regulatory
24 agency have a communications link with the Japanese
25 regulatory agency when, as far as, you know, you're talking

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1 drawings and that sort of thing?

2 FRED BROWN: This is Fred Brown. Our site
3 team interacts with NISA. They have not been very
4 successful in getting too many. We do have a few large
5 scale, small size drawings. They're not very helpful
6 drawings.

7 MOREY GREENHAM: Okay.

8 CARL HOLLER: Okay. Deb, we're maybe
9 driving to closure, and (inaudible) for the next call.

10 DEBBIE WILLIAMS: Okay. So we didn't have
11 anything else we wanted to cover on this end of the phone.

12 Was there something else we need to know, or someone
13 needs to bring up, from either the NRC or GEH?

14 ANDY LINGENFELTER: Well just to make sure
15 the next spot that there's -- Are we calling back in
16 together at 4 o'clock today to talk about what we found
17 out so far?

18 DEBBIE WILLIAMS: That was what our
19 direction had come fro earlier today. Is that still
20 true, NRC?

21 TONY MENDIOLA: Yes. It's still true. And
22 I would hope that shortly after that, I mean, we would
23 want to have some sort of written product that we can
24 ship back to the NRC team over in Japan. So come prepared
25 with, if we can, more than just words and concepts.

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1 We need to have --

2 DEBBIE WILLIAMS: We need to have what?
3 We lost you again.

4 TONY MENDIOLA: To have something that we
5 can send them in writing. So setting expectations, please
6 come prepared. It would be great if you could send it
7 out on email ahead of time.

8 ANDY LINGENFELTER: Right. Okay, I'll tell
9 you what.

10 TONY MENDIOLA: That's what we would like.

11 ANDY LINGENFELTER: Let's make one more
12 thing. I want to make sure in terms of timing. Your
13 next discussion with TEPCO is this 9 o'clock tonight,
14 is that correct?

15 TONY MENDIOLA: Right.

16 ANDY LINGENFELTER: Okay. So, yes, what
17 we'll do is, we'll start working the questions up. And
18 then we'll start running them through our process here
19 for review cycles and peer reviews. We may have sort
20 of draft answers and (inaudible), that may not be quite
21 peer reviewed yet, by the time we get to 4:00.

22 TONY MENDIOLA: That would be great. In
23 fact, that's probably preferable, so you can get
24 additional ideas before you hit your peer review.

25 ANDY LINGENFELTER: Okay. We'll see how

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1 that goes.

2 DEBBIE WILLIAMS: So what we would like to
3 do from a logistics point of view. That's why we kept
4 asking who we needed to work with. So outside of getting
5 contacts from GEH, we pretty much didn't get a lot of,
6 outside of Fred, information that we needed to be talking
7 to other specific people in the NRC. In the meantime,
8 until 4:00, what did you expect to occur with our
9 communications to you prior to 4 o'clock?

10 TOMBOYCE: This is Tom Boyce again. I guess
11 I'm the point of contact. So I guess I can try and broker
12 that sort of --

13 DEBBIE WILLIAMS: Well I guess the question
14 is, we're going to, at least within ourselves, we're
15 going to be talking between us and GE, with the people
16 we already identified with each question, just so we
17 can our ideas together. So if we do that, then are we
18 to contact Tom and make any kind of discussions happen
19 within, about each question with you?

20 FRED BROWN: This is Fred Brown. And I would
21 recommend at this point, from an efficiency standpoint
22 --

23 DEBBIE WILLIAMS: Okay.

24 FRED BROWN: -- that you focus on the industry
25 conversation around your best technical solutions.

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1 DEBBIE WILLIAMS: Okay.

2 FRED BROWN: And facilitate the
3 communication chain. But extract ourselves from slowing
4 down the problem solving process.

5 DEBBIE WILLIAMS: Okay. We can do that.
6 I just wanted to make sure. Because it sounded like
7 you were also in some problem solving mode yourself.

8 FRED BROWN: I think if we add value, it
9 will be having thought independently in --

10 DEBBIE WILLIAMS: Okay.

11 FRED BROWN: -- what you do in providing
12 any comments to that. But not in actual problem solving.

13 DEBBIE WILLIAMS: Okay. And we want to be
14 clear about the role. And my understanding is the email
15 is RST01, is the email where we're sending it to? I've
16 got the whole rest of the address.

17 FRED BROWN: Yes. It's zero one, correct.

18 DEBBIE WILLIAMS: Correct. All right.

19 CARL HOLLER: I'm sorry, I don't want to
20 delay it. But I just heard two different things here.
21 I heard that the deliverable, what is supposed to be
22 something more than words and concepts.

23 But then on the other hand, I heard we were
24 supposed to deliver our best thinking, professionally,
25 based on what we know, which we don't have a lot of hard

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1 facts to get into detailed problem solving. So I'm not
2 sure I'm clear whether it is conceptual, or not.

3 FRED BROWN: Great question. And I think
4 the distinction was that a written product that can be
5 communicated to the team in Japan, and shared with TEPCO
6 was the firm part. But you're correct. We can only deal
7 with the information that we have.

8 CARL HOLLER: Okay. So I understand now.
9 And I believe it's basically you want a written word,
10 so it doesn't just get lost in a bunch of conversation.
11 Some sort of like white paper written word of the best
12 thinking, recognizing it will be based on assumptions
13 and concepts.

14 FRED BROWN: Exactly.

15 DEBBIE WILLIAMS: And don't come to the
16 meeting just with talking. We need to have, try to have
17 a white paper out prior. We'll try to see if we can
18 shoot for 30 minutes, prior to the 4 o'clock meeting.

19 CARL HOLLER: Yes.

20 DEBBIE WILLIAMS: Okay?

21 ANDY LINGENFELTER: Okay. Now the original
22 set of questions was sent out by RST08.

23 DEBBIE WILLIAMS: Yes.

24 ANDY LINGENFELTER: You want it to go back
25 to that? Or back to RST01?

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1 FRED BROWN: Please use the 01.

2 CARL HOLLER: We understand. Use the RST01.
3 Thank you. Okay.

4 DEBBIE WILLIAMS: I think we're finished,
5 unless there's anything else --

6 ANDY LINGENFELTER: I have one other thing
7 sort of connected. We were supposed to be also talking
8 to the pump team at 10:30 on the same phone call, or
9 same stuff. And they had similar questions to the core
10 cooling, and potential ways to inject water. Is that
11 team connected with this at all?

12 DEBBIE WILLIAMS: Was it an INPO team?

13 ANDY LINGENFELTER: No, it was an NRC call.

14 DEBBIE WILLIAMS: Right. But as far as I
15 know, we don't have an Ops team at INPO that was having
16 a phone call. So it's --

17 ANDY LINGENFELTER: You're right, no. This
18 had nothing to do with INPO.

19 DEBBIE WILLIAMS: Okay.

20 ANDY LINGENFELTER: We had a separate call.

21 I just wanted to know if it was the same group of people
22 in the Reactor Safety Team in the NRC.

23 DEBBIE WILLIAMS: No, not us.

24 FRED BROWN: Yes, this is Fred Brown. And
25 the group of people (inaudible) who is the entire

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1 (inaudible) we had someone dialing into a 10:30 call
2 that may have actually been a separate 10:30 call. My
3 apologies.

4 DEBBIE WILLIAMS: Okay.

5 ANDY LINGENFELTER: Okay. So is there a
6 followup for that one? Or can this one here, the followup
7 to this kind of take care of that first one?

8 DEBBIE WILLIAMS: Are you talking among
9 yourselves?

10 ANDY LINGENFELTER: Yes, I'm talking between
11 us and the NRC, yes.

12 DEBBIE WILLIAMS: Okay.

13 FRED BROWN: Yes, I believe -- I'm not aware
14 of any other followup questions on the pumping situation.
15 It's our understanding both trains are in the ground
16 in Japan. And so I didn't have any open questions on
17 that.

18 ANDY LINGENFELTER: Okay. That's fine. I
19 just wanted to make sure we're clear. Okay. Thank you.

20 FRED BROWN: Yes, very good. And one last
21 thing for INPO, if you're still on the line. I have
22 confirmed with the team in Japan that the inventory or
23 robotics is highly desired by TEPCO and NISA. And they
24 will be appreciative of getting the inventory from which
25 they can look --

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1 CARL HOLLER: You broke up.

2 DEBBIE WILLIAMS: We've lost you.

3 FRED BROWN: I'm sorry. I probably got too
4 close to the speaker. I have confirmed with the site
5 team that TEPCO and NISA are very interested in the inventory
6 of robotics equipment.

7 And if we can, when we can provide that NISA
8 and TEPCO will look at that for things that they believe
9 will be of use. And then would be open to requesting
10 that assistance on specific items.

11 DEBBIE WILLIAMS: Right. And that actually
12 is, we have different groups through the emergency
13 coordinating. And it's through the assistance
14 department.

15 And I did hear this morning they were working
16 on that. And we did -- I am aware of that request.
17 Do they need a contact number? Or do we need to make
18 sure we have the right contact information?

19 FRED BROWN: I can send you an email. But
20 when we talked this morning with that group, Kevin, he
21 asked for assurance that the Japanese were actually
22 interested in this information.

23 DEBBIE WILLIAMS: Okay. So I'm going to
24 that meeting here in about five minutes.

25 FRED BROWN: Perfect.

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1 DEBBIE WILLIAMS: And so I can tell him that
2 this is coming from the NRC. And can I tell him who
3 it's coming from? Is it Fred?

4 FRED BROWN: Yes, Fred confirmed with the
5 NRC site team in Japan --

6 DEBBIE WILLIAMS: Okay.

7 FRED BROWN: -- that this is a productive
8 effort to provide an inventory.

9 DEBBIE WILLIAMS: Okay. So they are
10 interested in providing an inventory of robotics.
11 Because we had gotten told this morning that some people
12 were trying to offer help, and weren't making Japan aware
13 of what it was. And so there was confusion about whether
14 it was needed or not.

15 FRED BROWN: Yes, that is correct. The
16 success path is to provide information on what's available.
17 And then allow them to decide if they want to ask for
18 it or not, before we load an airplane.

19 DEBBIE WILLIAMS: All right, Fred, so I will
20 convey that to Kevin Ryan, who's our EC coordinator --

21 FRED BROWN: Great.

22 DEBBIE WILLIAMS: -- that it is a
23 confirmation from the NRC.

24 FRED BROWN: Yes.

25 DEBBIE WILLIAMS: All right. I'll take care

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1 of that.

2 FRED BROWN: Thank you very much.

3 DEBBIE WILLIAMS: All right. Thank you.

4 FRED BROWN: Thanks all.

5 DEBBIE WILLIAMS: Bye.

6 ANDY LINGENFELTER: Thank you.

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0%LQKH)605065094

(CONFERENCE CALL INITIATED)

JENNIFER UHLE: Jennifer Uhle, RST. This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Hi, Jennifer, this is the HOO here. I got a Randall Crane for INPO.

JENNIFER UHLE: Okay.

HEADQUARTERS OPERATIONS OFFICER: And he wants to talk to a Mike Brown.

JENNIFER UHLE: Yes, yes. Hold on. Hey, Mike, you got a phone call from INPO.

HEADQUARTERS OPERATIONS OFFICER: Can I transfer the call?

JENNIFER UHLE: Yes.

HEADQUARTERS OPERATIONS OFFICER: Okay.

RANDY CRANE: Ma'am?

MIKE BROWN: This is Mike Brown. May I help you?

RANDY CRANE: Hey, Mike, Randy again.

MIKE BROWN: Randy.

RANDY CRANE: What can I do for you?

MIKE BROWN: Oh, I was just giving you guys a bridge number. Hold on.

RANDY CRANE: Oh, okay.

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1 MIKE BROWN: Okay. (b)(6)

2 RANDY CRANE: Got it.

3 MIKE BROWN: (b)(6)

4 RANDY CRANE: Okay.

5 MIKE BROWN: (b)(6)

6 RANDY CRANE: Okay.

7 MIKE BROWN: And then the pin is (b)(6)

8 RANDY CRANE: (b)(6) Okay, got it. We'll
9 be calling in at 10:00, and also 1600.

10 MIKE BROWN: Okay. Did (Inaudible) give
11 you any good info?

12 RANDY CRANE: Not really. We kind of
13 understand now the priorities. And finally heard the
14 flow path for the first time. And also heard some
15 temperature measurements on Unit 1 that were pretty
16 disturbingly high. Feed line around 750 degrees. And
17 the lower head region around 750 degrees.

18 MIKE BROWN: Really?

19 RANDY CRANE: Yes, which is --

20 MIKE BROWN: That's pretty high.

21 RANDY CRANE: Yes. They've prioritized
22 Unit 1 cooling over Unit 2 cooling now. Because Unit
23 2 is substantially lower, like half of that.

24 MIKE BROWN: Right. Feed line temperature
25 750, and what was the other temperature? Oh, reactor

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1 vessel lower head?

2 RANDY CRANE: Yes. Feed nozzle, and then
3 the lower head.

4 MIKE BROWN: Feed nozzle, okay.

5 RANDY CRANE: And so they've got a heck of
6 a lot more electricity back in now, an MCC works, a 480
7 volt MCC in Unit 4, and one in Unit 2 are energized.

8 However, nothing in Unit 1 could get energized.

9 All the MCCs were damaged to the point where they can't
10 use them. And they've got some batteries on site that
11 they're going to be energizing some instrumentation from,
12 which is good.

13 MIKE BROWN: Batteries on site, okay. Wow,
14 well that's some good information.

15 RANDY CRANE: Yes. So progress. But Unit
16 1, that's disturbing. I mean, I don't know, I'm not
17 a reactor engineer. But at temperatures that hot, and
18 the rad levels I've heard, are just screaming.

19 MIKE BROWN: Off the roof, yes. Yes, that's
20 pretty high for a boiler, you know. They don't ever
21 get that high.

22 RANDY CRANE: Yes.

23 MIKE BROWN: Let me just repeat back what
24 I heard. Feed line nozzle temperature on Unit 1 is 750
25 degrees. Reactor vessel, bottom head temperature 750

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1 degrees. Looks like they got a 40 volt MCC energized
2 on Unit 4.

3 RANDY CRANE: Yes.

4 MIKE BROWN: Forty volt MCC energized on
5 Unit 2?

6 RANDY CRANE: That's correct.

7 MIKE BROWN: All MCCs seem to be damaged
8 on Unit 1.

9 RANDY CRANE: That's correct.

10 MIKE BROWN: And they've got batteries on
11 site.

12 RANDY CRANE: Right. And 5 and 6, you know,
13 are on off site power.

14 MIKE BROWN: Right, 5 and 6. Everything
15 seems to be okay up there.

16 RANDY CRANE: Right.

17 MIKE BROWN: They got RHR in there, and shut
18 down cooling.

19 RANDY CRANE: Right. (b)(4)

20 (b)(4)
21
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25 MIKE BROWN: Okay. How did they get these

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1 numbers, do you know?

2 RANDY CRANE: Perhaps some of the
3 instrumentation from the batteries that they brought
4 on. I don't know.

5 MIKE BROWN: Oh, okay.

6 RANDY CRANE: But, those are not, you know,
7 I would call those, everything I just told you, at this
8 point it's sort of --

9 MIKE BROWN: Proprietary information.

10 RANDY CRANE: TEPCO or Tokyo Electric's not
11 on the phone call. This is, you know, it's Wano (phonetic)
12 Tokyo Center, and Paris Center and Atlanta Center. So
13 just talking.

14 MIKE BROWN: Okay. I got you. Hold on.
15 My supervisor wants to talk to you.

16 RANDY CRANE: Okay.

17 JENNIFER UHLE: Hi, this is General Uhle.
18 I'm the director of the Reactor Safety Team here.

19 RANDY CRANE: Hi, Jennifer.

20 JENNIFER UHLE: And I'm just kind of popping
21 in. And I just heard that there's a, the reactor vessel
22 750 degrees Fahrenheit?

23 RANDY CRANE: I'd call that hearsay, but
24 yes.

25 JENNIFER UHLE: Okay. So it's not a direct

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1 measurement that you guys somehow acquired?

2 RANDY CRANE: No.

3 JENNIFER UHLE: So is it based on the
4 instrumentation at the plant?

5 RANDY CRANE: You know what, Jennifer, I
6 am not purposely being elusive. I just was sitting in
7 on a briefing from the Wano Center in Tokyo. And we
8 weren't, it wasn't back and forth with us being able
9 to ask question from people that knew the answers to
10 any of that.

11 It was kind of a status of here's what we've
12 heard. So I really can't elaborate on it. And, in fact,
13 they made it perfectly clear, let's not be putting those
14 numbers out until Tokyo Power actually, you know --

15 JENNIFER UHLE: Yes.

16 RANDY CRANE: -- communicates those.

17 JENNIFER UHLE: Yes, I guess that was my
18 main question is, does TEPCO know this, or --

19 RANDY CRANE: And that's the thing.

20 JENNIFER UHLE: You don't know?

21 RANDY CRANE: They haven't released that.

22 So I don't really know the answer to that. In fact,
23 I'm sitting here thinking, I probably shouldn't have
24 said those. Because I call that preliminary. And they
25 asked us not to make that public.

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1 JENNIFER UHLE: Okay. But it was a meeting
2 with Wano, you said?

3 RANDY CRANE: Yes. It would be -- Yes.

4 JENNIFER UHLE: Okay.

5 RANDY CRANE: I was under the impression
6 at first that you guys were part of that. But the answer
7 is, now that I realize you guys are not part of that
8 --

9 JENNIFER UHLE: Yes. No, we're not. But
10 we've been getting information feeds from all over the
11 place. Because, you know, we've been directly supporting
12 at least the Japanese Ambassador. And then TEPCO has
13 requested us to try to work -- Well, you know, organize
14 --

15 RANDY CRANE: Right.

16 JENNIFER UHLE: -- some of the U.S. response.
17 But one of the things that we've been having a hard
18 time doing is estimating, you know, temperatures.

19 RANDY CRANE: They do have some batteries
20 on site for some instrumentation now. And I'm not sure
21 if --

22 JENNIFER UHLE: Yes.

23 RANDY CRANE: -- the instrumentation is
24 actually functional, and that's where this, where that
25 came from, or not.

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1 JENNIFER UHLE: Okay. Okay, yes. Another
2 thing that we're trying to support is, sort of the federal
3 family has got to come up with a source term that would
4 be eventually used to develop for the President an estimate
5 of likely consequences to Hawaii, and then Alaska.

6 RANDY CRANE: Right.

7 JENNIFER UHLE: So, yes, I mean, if we're
8 seeing conditions degrade, that would help us.

9 RANDY CRANE: Absolutely. I think you need
10 to get a hold of, what's the acronym for the NRC in Japan,
11 NIAI, or something like that?

12 JENNIFER UHLE: No, it's NISA.

13 RANDY CRANE: NISA.

14 JENNIFER UHLE: Yes, we're already in touch
15 with NISA. And we're in touch with everybody. But this
16 was the first time that anyone said anything about --

17 RANDY CRANE: Those kind of temperatures.

18 JENNIFER UHLE: Yes, yes.

19 RANDY CRANE: Yes, that's the first we'd
20 heard of it too.

21 JENNIFER UHLE: Okay.

22 RANDY CRANE: You know, information is
23 sketchy to all of us outside of the --

24 JENNIFER UHLE: Yes, right. Right.

25 RANDY CRANE: -- TEPCO group.

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1 JENNIFER UHLE: Okay.

2 RANDY CRANE: That's the first I heard of
3 it. And they asked us not to repeat it until we --

4 JENNIFER UHLE: Yes, yes.

5 RANDY CRANE: -- until TEPCO actually
6 releases it to the public.

7 JENNIFER UHLE: Yes. Well, we won't repeat
8 it --

9 RANDY CRANE: All right.

10 JENNIFER UHLE: -- to the public or anything.
11 I promise you that.

12 RANDY CRANE: All right. Thank you. But
13 I, you know, I believe they weren't made up numbers.

14 JENNIFER UHLE: Okay. So they looked
15 alarmed?

16 RANDY CRANE: They said that the priority,
17 the cooling is Unit 1 --

18 JENNIFER UHLE: Okay.

19 RANDY CRANE: -- because of those
20 temperatures. Unit 2 is substantially cooler.

21 JENNIFER UHLE: Yes. Okay. Okay. All
22 right. I appreciate it.

23 RANDY CRANE: Okay.

24 JENNIFER UHLE: Sorry to -- I didn't mean
25 to alarm you if you thought I was being a pain in the

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1 ass, or whatever.

2 RANDY CRANE: Oh, no, not at all.

3 JENNIFER UHLE: Okay.

4 RANDY CRANE: All right. Hey, thanks a lot.

5 And I appreciate it. We're going to get on these
6 questions.

7 JENNIFER UHLE: Okay. Yes, I do, I thank
8 you a lot for looking at that.

9 RANDY CRANE: All right.

10 JENNIFER UHLE: Take care.

11 RANDY CRANE: Bye, bye.

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(CONFERENCE CALL INITIATED)

RICK HASSELBERG: Reactor Safety Team,
Hasselberg.

VINCE: Hey, Rick, yes, this is Vince over
at the HOO.

RICK HASSELBERG: Hey, Vince, HOO.

VINCE: Yes.

RICK HASSELBERG: What's up, bud?

VINCE: At 9 o'clock, you still having your
INPO RST meeting?

RICK HASSELBERG: Yes.

VINCE: Okay. We're just going to put you
all on the RST01.

RICK HASSELBERG: RST01.

VINCE: Is that okay, or --

RICK HASSELBERG: RST01, is that our
counterpart bridge or ENF?

VINCE: That's your counterpart bridge.

RICK HASSELBERG: Okay.

VINCE: That's (b)(6)

RICK HASSELBERG: So we'll come up on the
counterpart bridge.

VINCE: The (b)(6) yes.

RICK HASSELBERG: (b)(6)

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1 VINCE: Yes, sir.

2 RICK HASSELBERG: Okay.

3 VINCE: And INPO's probably going to call
4 here And we'll just transfer them up there, okay?

5 RICK HASSELBERG: Very good.

6 VINCE: Thank you.

7 RICK HASSELBERG: Thank you, sir.

8 VINCE: Bye, bye.

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(CONFERENCE CALL INITIATED)

MALE PARTICIPANT: Hello. Hello. Hello.

LT. OPFER (phonetic): (Inaudible).

MALE PARTICIPANT: I'm sorry. I can't hear you.

LT. OPFER: This is Lieutenant Opfer in Japan, at U.S. Forces, Japan.

MALE PARTICIPANT: Ah ha.

LT. OPFER: And we just got our updated information, which we'll be providing you at some point in time.

MALE PARTICIPANT: Okay.

LT. OPFER: From the status of the nuclear power plant on reactor Number 1. They reported that they have a raised temperature. That's what they say.

It's a raised temperature to a 383 degrees Celsius in Reactor 1.

MALE PARTICIPANT: In Reactor 1 --

LT. OPFER: Yes.

MALE PARTICIPANT: -- it's 378 Celsius?

LT. OPFER: 383 degrees Celsius.

MALE PARTICIPANT: 383.

LT. OPFER: And I was just curious if you had any data that, you know -- I mean, they highlighted

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1 in red and put it up on our update. And I was just wondering
2 what the previous temperature was. Or whether that --
3 I mean, it seems kind of high for me.

4 MALE PARTICIPANT: It does sound high. I
5 have to tell you, there is -- I have to get somebody
6 on the phone here that can actually, officially take
7 this call. I'm just an embedded DoE employee here at
8 the NRC. So let me try to find somebody. Hang on.

9 LT. OPFER: All right.

10 MALE PARTICIPANT: Okay, I got somebody here
11 for you. Hang on.

12 DAVE SKEEN: This is Dave Skeen with the
13 Reactor Safety Team.

14 LT. OPFER: This is Lieutenant Matt Opfer
15 with U.S. Forces in Japan.

16 DAVE SKEEN: Yes, sir.

17 LT. OPFER: We just got the updated report,
18 which we should be sending you as soon as we receive
19 it officially. And one of the things that caught our
20 attention was, on Reactor 1 they provide an update on
21 22 March at 11:20.

22 They have a temperature in Reactor Number
23 1 at 383 degrees Celsius, which seems a little bit high.

24 And I don't know what it was before. And I didn't know
25 if you guys had any trending data, or had any account

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1 for that to see what the temperature change was.

2 DAVE SKEEN: Yes, that's the first we've
3 heard that. You say you're going to send something as
4 soon as you have it? Send it to us?

5 LT. OPFER: Yes, we'll send it -- Like,
6 all I have is a paper copy. Because they have to translate
7 all the stuff. And it's encased in an entire report.
8 And I think we've been sending those to you guys --

9 DAVE SKEEN: Yes.

10 LT. OPFER: -- when we have it. But have
11 we been sending you the nightly reports that we get?

12 DAVE SKEEN: I am not sure if we have that
13 or not. We get so many different reports in here. I
14 think you guys have been sending us something. Because
15 we try to get everything, and try to correlate, does
16 this make sense, does that make sense?

17 LT. OPFER: Yes. And that's, I guess, why
18 I was trying to give you a call and give a heads up.
19 Because we're, you know, we just saw this. We just got
20 this probably about 15, 20 minutes ago.

21 DAVE SKEEN: Okay.

22 LT. OPFER: And it just seems kind of high.
23 And I didn't know if we had any data to compare it to
24 from any time before.

25 DAVE SKEEN: Yes. I don't know that we have

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1 data on that one. We didn't show it on the status that
2 we've got right now, from our status report. We're not
3 showing that. So if you've got some new information,
4 that would be good for us to take a look at.

5 LT. OPFER: Okay. And, I mean, what would
6 you expect the temperature to be? I mean, what would
7 -- I mean, that seems incredibly high in my opinion.
8 Because it's like 721 degrees Fahrenheit.

9 DAVE SKEEN: Yes. But I think we had heard
10 something from INPO earlier today, something about 700
11 degrees in the bottom plenum. So again, no confirmation
12 of where that number was coming from. So, is this a
13 TEPCO report, themselves reporting this?

14 LT. OPFER: Let me see the report. I don't
15 really know who the source is. But it's basically either
16 the Government of Japan, or TEPCO. So it's probably
17 TEPCO providing it to the Government of Japan.

18 DAVE SKEEN: Okay.

19 LT. OPFER: (Inaudible). Yes, it's from
20 the Japanese Defense Department, though.

21 DAVE SKEEN: Okay. Yes, I guess the Ministry
22 of Defense has control over there now. So I guess that's
23 probably right.

24 LT. OPFER: Okay. But like I said, it just
25 -- I mean, are you concerned with that? Or is that just

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1 something that --

2 DAVE SKEEN: Yes, I think we have some
3 concerns if that's true. And if INPO reported that earlier,
4 and if we're getting corroborating information there,
5 then that's something that we want to look at.

6 You know, it could mean there's a core in
7 the bottom of the plenum of the reactor. Or, you know,
8 and we think there was some melting that occurred anyway.

9 LT. OPFER: Yes.

10 DAVE SKEEN: So yes. But I guess if you've
11 got something, if you can send it to us, we'll take a
12 look at it. And I'll have my analyst guys look at it
13 here and see what they think.

14 LT. OPFER: Okay. All right.

15 DAVE SKEEN: Okay? Appreciate it.

16 LT. OPFER: All right. So you guys are
17 definitely going to look into it, if that is the fact?
18 And this is the second report you've heard of it. So
19 there's a chance that --

20 DAVE SKEEN: Yes. We heard another report
21 earlier from, I think the INPO folks. It's something
22 through their channels. But that was the only one we
23 had heard.

24 So if this is the second one, you know, I
25 don't know if it's corroborating that, or if they picked

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1 up the same information that they had and passed it on.

2 But yes, let us have it, and we'll take a look at it.

3 LT. OPFER: All right. Thank you, sir.

4 DAVE SKEEN: All right. Thank you.

5 LT. OPFER: Bye.

6 DAVE SKEEN: Bye.

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(CONFERENCE CALL INITIATED)

MIKE MORLING: Reactor Safety Team, Mike Morling, this is a recorded line. How may I help you?

HEADQUARTERS OPERATIONS OFFICER: I've got Mr. Watford from GE Hitachi.

MIKE MORLING: Mr. Watford from GE Hitachi. Were you expecting him? Hold on, please.

HEADQUARTERS OPERATIONS OFFICER: Yes, sir.

CHUCK NORTON: This is Chuck Norton.

GLEN WATFORD (phonetic): Yes, I was trying to get in touch with Len Ward.

CHUCK NORTON: Oh, okay, Len.

LEN WARD: Len Ward.

GLEN WATFORD: Yes, this is Glen Watford with GE Hitachi.

CHUCK NORTON: Yes, thanks for calling back.

GLEN WATFORD: Yes. What specifically are you looking for?

CHUCK NORTON: I guess we're looking for -- We had an earlier call with you people around, you know, late this afternoon around 4:00 p.m. And you passed on some information about the amount of salt that has accumulated in the lower plenum, below the core.

GLEN WATFORD: Yes.

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1 CHUCK NORTON: Do you have, can you summarize
2 those calculations which you made your assumptions, and
3 email it to us?

4 GLEN WATFORD: Did you not get those? I
5 thought those had been sent off, probably about a two
6 page writeup on the salt calcs.

7 CHUCK NORTON: I don't --

8 GLEN WATFORD: You know, there were five
9 questions that we sent an answer to

10 CHUCK NORTON: Okay

11 GLEN WATFORD: I mean, if you don't, if you
12 got that I can sent that again.

13 CHUCK NORTON: Yes. I mean, that summarizes
14 how you came up with the numbers?

15 GLEN WATFORD: Yes, I believe so. It's about
16 two pages.

17 CHUCK NORTON: Okay. Hold on one second.
18 Could you bear with me just a minute?

19 GLEN WATFORD: No problem.

20 CHUCK NORTON: You know, that might have
21 -- Could you bear with us? Could you send it again?
22 Would that be, can you email it?

23 GLEN WATFORD: Oh, yes, not problem. Do
24 you want it to the RST01?

25 CHUCK NORTON: Yes, RST01.hoc@nrc.gov, that

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1 --

2 GLEN WATFORD: okay.

3 CHUCK NORTON: And attention to myself, Len
4 Ward, and the RST team.

5 GLEN WATFORD: Absolutely.

6 CHUCK NORTON: I would appreciate it.

7 GLEN WATFORD: Okay. We'll find that and
8 shoot that right back to you.

9 CHUCK NORTON: Okay. Now that has, I mean,
10 refresh my memory. I mean, how many kinds of salt did
11 you calculate were in the lower plenum, off hand.

12 GLEN WATFORD: You know --

13 CHUCK NORTON: You don't remember? Okay.

14 GLEN WATFORD: You're catching us on shift.
15 That was done on the day shift.

16 CHUCK NORTON: Okay.

17 GLEN WATFORD: There was turnover.

18 CHUCK NORTON: Okay.

19 GLEN WATFORD: I'd have to pull that out.
20 But those numbers are in the write up.

21 CHUCK NORTON: Okay. And the assumptions,
22 and how it was calculated?

23 GLEN WATFORD: Yes.

24 CHUCK NORTON: Okay, okay.

25 GLEN WATFORD: And take a look at that.

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1 If you need more details I believe we can find the calcs.

2 I believe we've got them loaded somewhere here.

3 CHUCK NORTON: Okay.

4 GLEN WATFORD: If we can get them.

5 CHUCK NORTON: Maybe just, you know, just
6 as a backup, so just in case they're asking for more,
7 if you maybe have those on hand, your backup calcs.

8 GLEN WATFORD: Yes.

9 CHUCK NORTON: Just in case --

10 GLEN WATFORD: We'll start looking.

11 CHUCK NORTON: -- management wants to see
12 them, okay?

13 GLEN WATFORD: We'll start looking for those
14 right now, right after we send these.

15 CHUCK NORTON: Okay. I appreciate it.

16 GLEN WATFORD: Okay. Thank you.

17 CHUCK NORTON: Thank you very much.

18 GLEN WATFORD: Bye.

19 CHUCK NORTON: Okay, bye.
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(CONFERENCE CALL INITIATED)

BILL: Good morning, Reactor Safety Team.

This is Bill speaking. This is a recorded line. How can I help you?

JED GAY: Good morning, Bill. My name is Jed Gay. I'm with the Emergency Response Center at INPO.

And we just had a question. We got a request to, for some ALERA (phonetic) to use on site in Japan.

And the request is from Frank Collins (phonetic). And we just needed to, just to see what exactly, you know, get some details on what exactly the request was for. What kind of data was needed. And I've actually got a track number here too, if you needed that.

BILL: Okay. This is what happens when I was foolish enough to pick up the phone. Okay. It's, the INPO tracking number is?

JED GAY: Okay, the tracking number is 2097.

BILL: 2097. Okay. And, sir, could I get your name again?

JED GAY: My name is Jed Gay.

BILL: Jed Gay. And your from the Emergency Response Center at INPO?

JED GAY: Yes, sir. That's correct.

BILL: Sorry, my shorthand also is tragic.

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1 Okay. And you got a request from Frank Collins. And
2 what was the nature of that request again?

3 JED GAY: The nature of the request was to
4 provide the NRC with ALERA guidelines for use on site
5 in Japan. And that was just how the request was stated.
6 And we just wanted to get a little more detail on what
7 exactly was needed.

8 BILL: Okay. To transmit to Japanese, TEPCO
9 for usage on site?

10 JED GAY: Yes. Provide NRC with ALERA
11 guidelines for use on site.

12 BILL: Okay. I believe it was for like a
13 strategy of if we had that -- Well, actually, I don't
14 want to give you any bum dope. So what I'll do is, they're
15 in the middle of a technical phone call right now. It
16 just began. And it may last an hour or so. And then
17 also the attention of our RST director.

18 Mysense, off the top of my head, was basically,
19 you know, if you had, you know, if you had to use, obviously
20 people in the most not expedient manner possible, but
21 in the most efficient manner possible, so let's not burn
22 them out, whatever.

23 I think what the gist of it was had to do
24 with, okay, what strategies would you implement? How
25 would you, you know, enter the facility? What would

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1 you use as a, you know, a natural barrier. That was
2 the sense I got. But as I recall, Frank is not here
3 right now.

4 JED GAY: Okay.

5 BILL: So it's his shift release. But what
6 I'll do is -- Can I get a number to contact you directly?

7 JED GAY: Yes, sir. The number -- And I'm
8 in the RP room. The ERC's in another room. But the number
9 here in this room is going to be 770.

10 BILL: 770.

11 JED GAY: 644.

12 BILL: 644.

13 JED GAY: 8033.

14 BILL: 8033. Okay. It may be a couple of
15 hours. But I will get back to you, Mr. Gay.

16 JED GAY: Okay. Thank you. And is Frank
17 on night shift? Or is he coming in tomorrow?

18 BILL: He was on night shift last night with
19 me. But he's not here this evening. There's another
20 gentleman here.

21 JED GAY: Okay.

22 BILL: And I don't have the watch bill in
23 front of me, so I don't know when he'll be back. But
24 I'll just see what I can determine from the log, as far
25 as, you know, what exactly he was asking of you folks.

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1 JED GAY: Okay. Okay. That sounds good.
2 And I'll be here until 2:00 a.m. eastern time. And
3 then I'll have another, someone else come in to relieve
4 me. His name's Brad Mitchell (phonetic). So, I guess
5 if I don't get the call before then, then he'll be here.

6 BILL: Brad Mitchell relieves at 2:00 a.m.
7 Okay, sir.

8 JED GAY: All right. Well, I certainly
9 appreciate it. Is there anything else, any other
10 information you need? I gave you the ET number. And
11 it was Frank Collins, and the request was for provide
12 NRC with ALERA guidelines for use in Japan.

13 BILL: Right. And the repeat back is, what
14 I heard you say was, you got a request from Frank Collins,
15 who was acting as our RST coordinator. The INPO tracking
16 number for this request is 2097.

17 And the request was that INPO provide the
18 NRC with ALERA guidelines, or guidance, how to treat
19 the event on site, and move forward. And you'd like
20 more clarifying information as to exactly what that means.

21 JED GAY: Okay. Yes. And the --

22 BILL: The phone number --

23 JED GAY: I'm sorry, the tracking number
24 is the ET tracking number. It's 2097.

25 BILL: The what tracking number?

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1 JED GAY: The ET, reference ET tracking
2 number.

3 BILL: Reference ET tracking number?

4 JED GAY: Yes.

5 BILL: Reference ET --

6 JED GAY: That's what it's called here.

7 BILL: Yes, of course. And if we don't get
8 back to you by 2:00 a.m. we should ask for Brad Mitchell?

9 JED GAY: Yes, sir. That's correct. And
10 he'll be in this room. So if he doesn't answer then
11 -- Sorry, if I don't answer then he will.

12 BILL: Okay, great.

13 JED GAY: Okay.

14 BILL: Thank you, sir.

15 JED GAY: All right. Thank you, sir. Good
16 night.

17 BILL: Bye.

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(CONFERENCE CALL INITIATED)

OLEG BUKHARIN: Oleg Bukharin, Reactor Safety Team. This is a recorded line. How could I help you?

HEADQUARTERS OPERATIONS OFFICER: Yes, hi, this is the Ops Officer. I've got Jed Gay on the line.

OLEG BUKHARIN: All right. Thank you. Okay.

JED GAY: Hi, my name's Jed Gay. Yes, sir, I just wanted to return your call of just about 15 minutes ago.

OLEG BUKHARIN: Are you from INPO?

JED GAY: INPO, yes, that's correct.

OLEG BUKHARIN: Yes. And we just wanted to clarify, was it, when were you contacted about this issue? And was it an email request, or was it a verbal request?

JED GAY: Yes. It was an email request from Frank Collins.

OLEG BUKHARIN: Right.

JED GAY: And the email was sent March 22nd at 6:43 a.m.

OLEG BUKHARIN: 6:43 a.m. Okay. We just wanted to check with you, as I understand. And I think

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1 our internal interest is just to see how, if it was a
2 U.S. plan like (inaudible) with your guidelines. And
3 be for approaching the reactor and like that. I think
4 that was the general interest. But we probably will
5 send you a clarification email in a little bit.

6 JED GAY: Okay. Are you going to send it
7 to the Emergency Response Center?

8 OLEG BUKHARIN: What would be the best person
9 to send it to, best address.

10 JED GAY: Okay. The best email would be
11 to send it to, it's INPOERC --

12 OLEG BUKHARIN: Okay.

13 JED GAY: -- RP.

14 OLEG BUKHARIN: RP?

15 JED GAY: Yes, that's correct.

16 OLEG BUKHARIN: Roma, Papa.

17 JED GAY: At -- Yes, Romeo, Papa, at
18 INPO.org.

19 OLEG BUKHARIN: Okay. All right. We'll do
20 that.

21 JED GAY: Okay. And about when should I
22 expect the --

23 OLEG BUKHARIN: We have a conference call
24 in progress now. So I'm not sure when it's going to
25 be done. But maybe half hour. Would you still be

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1 available at that time?

2 JED GAY: Yes, I will be here. And also,
3 if you would like, you can also call if needed. And
4 I'm sorry, I didn't catch your name.

5 OLEG BUKHARIN: It's, my first name is Oleg.
6 It's O-L-E-G.

7 JED GAY: O-L-E-G.

8 OLEG BUKHARIN: And the last name is Bukharin.
9 It's B, as in Bravo, U-K-H-A-R-I-N, N as in November.

10 JED GAY: All right. And is there a number
11 I could call back? Or is this just --

12 OLEG BUKHARIN: Yes. It's 301.

13 JED GAY: Okay.

14 OLEG BUKHARIN: 816.

15 JED GAY: 816.

16 OLEG BUKHARIN: 5504.

17 JED GAY: 5504. Okay. All right. So the
18 original request was just, can INPO provide ALERA
19 guidelines for use on site in Japan. And that was sent
20 from Frank Collins yesterday, or March 22nd.

21 OLEG BUKHARIN: Right.

22 JED GAY: At 6:43.

23 OLEG BUKHARIN: Right.

24 JED GAY: And the tracking number, the
25 reference ET tasking number is 2097.

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1 OLEG BUKHARIN: 2097, okay.

2 JED GAY: So I don't know if there's any
3 -- And really what we were looking for was just some
4 clarification on what exactly the request was for.

5 OLEG BUKHARIN: Yes. And as I said, I think
6 they will put together an email and send it to you, when
7 we are done with conference call they are in.

8 JED GAY: Okay. All right. Well, that
9 sounds good. Well, I think I'll just keep an eye out
10 for the email. And you have the email address? It's
11 --

12 OLEG BUKHARIN: It's INPOERCRP@INPO.org.

13 JED GAY: Yes. Yes, that's correct.

14 OLEG BUKHARIN: Okay.

15 JED GAY: All right.

16 OLEG BUKHARIN: Yes, I will do that. And
17 I forgot to ask you your name, just to say.

18 JED GAY: Okay, yes. My name is Jed Gay.
19 It's J-E-D, G-A-Y.

20 OLEG BUKHARIN: Okay.

21 JED GAY: And I work, I'm in the Emergency
22 Response Center at INPO.

23 OLEG BUKHARIN: Okay. All right. Sounds
24 good.

25 JED GAY: Okay.

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OLEG BUKHARIN: Okay. Thanks, Jed.

JED GAY: All right. Thanks. Have a good
night.

OLEG BUKHARIN: Bye.

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(CONFERENCE CALL INITIATED)

OLEG BUKHARIN: Reactor Safety Team. This is Oleg Bukharin. This is a recorded line. How may I help you?

HEADQUARTERS OPERATIONS OFFICER: Yes, sir. I have the Japan Team, Chuck Casto on the other line. I'm going to connect you.

OLEG BUKHARIN: Okay. Hello.

: Hello.

OLEG BUKHARIN: Yes, this is Oleg Bukharin, Reactor Safety Team.

DAN DORMAN: Hey, Oleg. This is Dan Dorman.

OLEG BUKHARIN: Oh, hello, Dan. Are you in Japan?

DAN DORMAN: Yes, I am. How are you?

OLEG BUKHARIN: Doing good. It's pretty busy here.

DAN DORMAN: Glad to hear that.

(b)(5)

(b)(5)

OLEG BUKHARIN: Yes. Well that -- What can I do for you, Dan?

DAN DORMAN: My recollection, when I was back there a week ago was, about a week ago, maybe even longer now, the Reactor Safety Team put together a list

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1 of suggested equipment that would be useful in the current
2 circumstances. And it had things like pumps that would
3 put out 1200 to 1800 gallons per minute, at a 150 to
4 250 psi, and things like that.

5 OLEG BUKHARIN: Right.

6 DAN DORMAN: If you could dig back in your
7 records and shoot that over to us?

8 OLEG BUKHARIN: Okay. I will do that.

9 DAN DORMAN: That would be great.

10 CHUCK CASTO: Admiral Rodin's (phonetic)
11 sitting here. And would like a copy of that as he walks
12 out the door.

13 DAN DORMAN: So if we can get -- Ideally,
14 if we can get that in the next few minutes, that would
15 be great.

16 OLEG BUKHARIN: Okay. Let me get them
17 (inaudible) them.

18 DAN DORMAN: All right. Thanks, Oleg.

19 OLEG BUKHARIN: Okay. Will do. And that
20 was -- Chuck, I guess, should I just go ahead and send
21 it your way? Or what would be the best email to send
22 it to?

23 CHUCK CASTO: Send it directly to me,
24 Chuck.Casto@nrc.com.

25 OLEG BUKHARIN: All right. Okay.

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CHUCK CASTO: Bye.

OLEG BUKHARIN: All right. Bye.

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RST Coordinator Audio Files

Docket Number: N/A

Location: N/A

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(CONFERENCE CALL INITIATED)

BILL: Good morning. Thanks for calling the RST. This is Bill speaking. This is a recorded line. How can I help you?

HEADQUARTERS OPERATIONS OFFICER: Yes, hi, Bill. I got Tony from Japan on the line. Stand by.

BRIAN: Yes, Tony.

TONY: Hey, is this Brian?

BRIAN: Yes.

TONY: Okay. We saw the same crew in the conference room. And, you know, I think you mentioned this at the beginning of the call. We wanted to make sure we understood the purpose of that document.

BRIAN: Okay. Yes. Thank you. Thank you. Naval Reactors here has pushed us a little bit at Marty's level and others. And they believe that it's their responsibility.

Not theirs, Department of Defense, or Department of State, I forget who, to make protective action guideline recommendations, updated recommendations to U.S. people living in Japan. Only, U.S. people.

So for them to be able to do that, if they want to say, you know, evacuate people up to 50 or farther,

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1 they want an assessment from us on what is the current
2 status, and where could it go, okay.

3 So what's our best assessment of the condition
4 of the units? And a little bit of where it could go,
5 you know, maybe could it go X vessel? Or if you flood
6 up, would you prevent any big issues there?

7 So that's their reasoning, or the reasoning
8 they're at least telling us why they want that. I think
9 a secondary reason, just from being here a few days,

10 (b)(5)

11 (b)(5)

That is my personal thought.

12 But they voiced the reason being that they're
13 into that, is that we have to get recommendations on
14 protective to our citizens through DoD. And they're
15 asking us for, what's NRC's latest paperwork on that.

16 And at NRC we only have something from maybe
17 four or five days ago on what the worst case might be.

18 There was a short, somebody put an email together.
19 So we were trying to find that. But have you updated
20 that? So that's the purpose.

21 And I think the major issue was, that they
22 wanted was, well can we use this to give to the Japanese?

23 And say, in a recommendation section, if you agree with
24 some of these, you know, flooding the containment to
25 the lower portion of the vessel, you know.

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1 If you believe in these assessments, or as
2 you would make the assessments, give them something that
3 we would be okay with, that we would do if we had similar
4 conditions. Does that make sense?

5 TONY: Yes, no, it makes sense. Go ahead,
6 Bill.

7 BILL: Yes. Brian, I got maybe a little
8 different approach to this.

9 BRIAN: Yes, go ahead.

10 BILL: If I understand the objective here,
11 it's to knock down the plume, right?

12 BRIAN: Yes.

13 BILL: Knock it down and keep it down, right?

14 BRIAN: Yes.

15 BILL: And at this stage, knowing what we
16 know about the reactor plants, our overall objective
17 ought to be to cover the spent fuel pool. Because that
18 will prevent them from steaming any further.

19 BRIAN: Yes. Cover them with water you mean.

20 BILL: Right. Now, whether they think they
21 know the condition of them, or they don't know the condition
22 of them, the objective ought to be to flood those as
23 best we can, to keep those assemblies covered with water.

24 BRIAN: Yes. We would agree. I've heard
25 that they all have water in them. That that's not a

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1 concern is what I've heard. But I agree with that statement.

2 So keep going.

3 BILL: Let's not necessarily argue that they
4 are or they aren't.

5 BRIAN: Yes. But just make sure of that.
6 Okay.

7 BILL: (Inaudible) that they are, right?

8 BRIAN: Yes, right. So that should be a
9 recommendation, is what you're saying?

10 BILL: Yes.

11 BRIAN: Yes. Okay.

12 BILL: And then the other part of the
13 recommendation is, flood the reactor vessels.

14 BRIAN: Yes.

15 BILL: Whether they're in-core, ex-core --

16 BRIAN: Yes. I agree.

17 BILL: Rather than seeing them and
18 continually steam and release radio-fission products,
19 flood them. So that we have liquid heat transfer versus
20 steam heat transfer.

21 TONY: You said flood the reactor vessel?
22 You meant flood the (inaudible)?

23 BILL: Flood -- Well we got to -- Right
24 now they believe they have cooling of the cores. Because
25 they've got, I don't know, 40 gpm on one --

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1 BRIAN: Yes. Well, we're not so sure they
2 have cooling of the core, right, Bill?

3 BILL: Right.

4 BRIAN: Yes, that's -- Although they say
5 that. But, yes --

6 BILL: But I think, as long as they're
7 steaming, then that's an indication that there's some
8 cooling going on.

9 BRIAN: Yes.

10 BILL: And what I'm saying is, that's good.
11 That's removing the decay heat. It's not making matters
12 any worse. But by only using that limited amount of
13 injection, you're just continuing the steam. You're
14 continuing to produce the plume. You're continuing to
15 subject the public to, you know --

16 BRIAN: Yes, yes. Plume, right, right.

17 BILL: So again, the objective should be
18 the same as the objective for covering the spent fuel
19 pool, plus the vessels.

20 BRIAN: Yes. You mean, so we don't have
21 that down here. We have -- You're saying we don't have
22 the recommendation to flood the vessel?

23 BILL: I'm -- Yes. From the standpoint,
24 the overall objective is to knock down that plume any
25 way possible. And I don't think there's going to be

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1 any SAM-G guidance that necessarily says, do this, do
2 that. But the overall objective should be the same.
3 And that is --

4 BRIAN: Yes.

5 BILL: -- the plume.

6 BRIAN: Yes. I'm with you. So I'm just
7 trying to get your words, Bill. That was where at the
8 end of the phone call -- Were you still on when I said,
9 one other itch we had here was, why are they throttling
10 flow going in? Why don't they go at max flow? Were you
11 following that discussion?

12 BILL: Truthfully, no. But --

13 BRIAN: Okay. Well, we've wondered why
14 they're throttling slow. And we think it's because
15 they're so worried about the salt water, right?

16 BILL: Right.

17 BRIAN: The salt coming out.

18 BILL: Yes, that's exactly right.

19 BRIAN: Okay.

20 BILL: Salt water is their enemy right now.

21 BRIAN: Yes.

22 BILL: Because the more they continue to
23 use it, the higher the buildup of --

24 BRIAN: Of salt. And then tougher to cool,
25 right.

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1 BILL: But now that they're close to, you
2 know, or about to inject fresh water --

3 BRIAN: Yes.

4 BILL: -- they shouldn't be throttling slow.
5 They ought to be putting in as much as they possibly
6 can.

7 BRIAN: Yes. We would agree with you here,
8 I think. Okay, good. So you want to see -- That
9 recommendation would be to, when fresh water is available
10 --

11 BILL: As coolant injection and --

12 BRIAN: Maximize coolant injection. And
13 then still keep the recommendation to flood primary
14 containment to the lower portion, right?

15 BILL: Well, I think we take this in stages,
16 you know.

17 BRIAN: Yes.

18 BILL: (b)(5)

19 (b)(5)
20
21

22 BRIAN: (b)(6)

23 (b)(5)

24 BILL: (b)(5)

25 (b)(5)

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1 BRIAN: I know. But I think here the thought
2 it, if you've already got the X vessel, go ahead and,
3 or prepare for X vessel, if that might happen, is go
4 ahead and flood the containment also. Get ahead of it,
5 okay.

6 BILL: Well, either it's X vessel now, or
7 it's not. But they're all steaming.

8 BRIAN: Yes.

9 BILL: So I don't think there's any down
10 side to flooding the vessel.

11 BRIAN: I'm okay with that one. I'm going
12 to add that in, Bill. I'm just saying, when you see
13 the containment, primary containment, flood that also
14 to the lower head. It's to try to get ahead of something,
15 in case it goes adverse. Why we'd have that one also.
16 I'm just trying to tell you --

17 BILL: I didn't follow that, Brian.

18 BRIAN: All right.

19 BILL: I'm a little slow on the uptake.
20 Forgive me.

21 BRIAN: No, you're okay. You want added
22 in here, don't throttle slow. Get it into the vessel.

23 BILL: Once it's fresh water.

24 BRIAN: Yes, good. I'm with you on that.
25 It's going to switch to fresh water injection as soon

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1 as possible. And maximize flow.

2 BILL: Right.

3 BRIAN: Okay.

4 BILL: And I would bet that with all the

5 --

6 BRIAN: Yes.

7 BILL: -- make sure that they all agree that
8 that's the right approach.

9 BRIAN: Yes.

10 BILL: (Inaudible) knock down the plume.

11 BRIAN: Yes. All right. I'm going to, I'm
12 adding that in. And I was just leaving the other one
13 in there that we have. A current recommendation is to
14 also flood primary containment to lower portion of vessel.
15 That's the one we talked about. That would be secondary
16 to that.

17 BILL: Well I think you're going to -- If
18 you're X vessel, you're going to achieve the same thing.

19 BRIAN: Yes, you'll get it there. Right.
20 All right. I'm with you. All right, thanks. Well,
21 you guys are going to get another version of this on
22 day shift.

23 So we're going to email it out again. And
24 there's going to be, I think a call at, this 11 o'clock
25 call with INPO. So they're going to discuss these again.

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BILL: All right. Good.

BRIAN: Okay.

BILL: Thank you.

BRIAN: All right. See you.

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
RST Coordinator Audio Files

Docket Number: N/A

Location: N/A

Date: March 25, 2011

Work Order No.: NRC-4222

Pages 1-34

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4 JAPAN'S FUKUSHIMA DAIICHI
5 RST COORDINATOR AUDIO FILES

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7 FRIDAY,

8 MARCH 25, 2011

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(CONFERENCE CALL INITIATED)

RICH STARK (phonetic): Rich Stark.

BRETT: Can I speak to the RST coordinator?

RICH STARK: I'm sorry?

BRETT: Can I speak to the RST coordinator?

RICH STARK: I guess I don't know who that
is.

BRETT: What team are you with?

RICH STARK: Who are you looking for again?

BRETT: The Reactor Safety Team coordinator.

ERIC THOMAS: This is Eric Thomas.

BRETT: Hey, Eric, Brett.

ERIC THOMAS: Yes.

BRETT: You got a minute?

ERIC THOMAS: Sure. For you I got 30 seconds.

BRETT: Okay. Hey, there was an email that
came out this morning looking for covers for this weekend.

ERIC THOMAS: Yes.

BRETT: But there seems to be some confusion
with what schedule is legit.

ERIC THOMAS: Hold on, hold on. Peter, you
looking for any more people this weekend? Or are you
good? Okay. We're good for the weekend.

BRETT: Let me talk to Peter for a second.

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1 (Inaudible) he has to.

2 ERIC THOMAS: I'm going to -- What's your
3 extension there, Peter? I'm going to transfer him. Hold
4 on.

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(CONFERENCE CALL INITIATED)

RICH STARK: Rich Stark.

TREVOR: Hello, Rich, this is Trevor.

RICH STARK: Yes.

TREVOR: Do you know, I don't know if you've been getting the emails. But the 10 o'clock meeting was moved to 11:00. And now it's back to 10:00.

RICH STARK: Okay.

TREVOR: And you need to call into that. Do you want me to get you the number?

RICH STARK: I think I have it somewhere. But give it to me anyway.

TREVOR: Okay. Just give me ten seconds.

RICH STARK: I think there was a number with a password on it too.

TREVOR: Right. It should be in your Blackberry. I'm looking for it right now myself. Okay, the number should be 202 -- Oh, hell, is that the right one? No. I'm sorry. The number is 877-989-3817. And the pass code is (b)(6)

RICH STARK: Let me read that back, (b)(6)

TREVOR: (b)(6) correct.

RICH STARK: Okay.

TREVOR: And the phone number again was 877

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2 RICH STARK: 989-3817.

3 TREVOR: Bingo.

4 RICH STARK: Thank you, sir.

5 TREVOR: Bye, bye.

6 RICH STARK: Right.
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(CONFERENCE CALL INITIATED)

TREVOR HOOK (phonetic): Trevor Hook speaking.

RICH STARK: Hey, Trevor, this is Rich. How are you doing?

TREVOR HOOK: Hey, Rich, how are you?

RICH STARK: Hey, apparently -- Good. I'm glad I'm able to contact you. And I got your email back that you received my message.

TREVOR HOOK: Okay, good.

RICH STARK: You got an attachment with it too?

TREVOR HOOK: You sent me an attachment? Let me see. Yes, sure enough.

RICH STARK: Yes, good. Because that's the update that they update periodically. And I'm going to send it in to you. Pete Lyons apparently called the reactor group here a couple of days ago.

And he wanted to communicate on salt buildup.

And there's a guy named Steve Arndt, A-R-N-D-T here, from NRC. And he wants to know if Pete wants to talk to someone on the phone? If he wants some information sent? Or if he wants -- They don't know what form to contact him, and what Pete is --

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1 TREVOR HOOK: All right.

2 RICH STARK: And they're willing to talk
3 to him if he wants to do that. They just want to know
4 --

5 TREVOR HOOK: Okay. If they give me a phone
6 number, or if you get a phone number that he should call
7 in to, I'll give it to Pete. And he can decide what
8 he wants to do.

9 RICH STARK: Now, there getting something
10 from INPO now. And they're tied up here. I'll get that
11 number and send it on to you. And it will be Steve Arndt,
12 A-R-N-D-T. It will be his phone number.

13 TREVOR HOOK: A-R-D-E-N-T?

14 RICH STARK: A-R-N-D-T, five letters.

15 TREVOR HOOK: Oh okay. A-R-N-D-T.

16 RICH STARK: That's correct. And what the
17 heck phone am I on here?

18 TREVOR HOOK: Looks like you're on
19 301-816-5100.

20 RICH STARK: It's 5189 here.

21 TREVOR HOOK: Ah, 5189. So 5100 is some
22 kind of mystery thing. So 301-816-5189?

23 RICH STARK: That's what it says here on
24 the phone in front of me.

25 TREVOR HOOK: Okay. It might work.

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1 RICH STARK: All right, thanks.

2 TREVOR HOOK: I'm going to call you right
3 back, just to see.

4 RICH STARK: Right, right.

5 TREVOR HOOK: All right. Bye, bye.
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(CONFERENCE CALL INITIATED)

RECORDING: The person at extension 37046
is not available to take your call.

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2 (CONFERENCE CALL INITIATED)

3 RICH STARK: Rich Stark.

4 TREVOR HOOK: Hey, Rich, it's Trev.

5 RICH STARK: Yes.

6 TREVOR HOOK: The second email that you sent
7 didn't come through.

8 RICH STARK: Yes. I just sent you an email
9 on my Blackberry. And it was the phone number of Steve.

10 TREVOR HOOK: Okay. I got the one that said,
11 here's Steve's phone number. But then there was another
12 one.

13 RICH STARK: Oh. Well then I was just, I
14 was farting around doing something there. I only meant
15 to send you two things today. One was the 4:30 this
16 morning assessment, which is like 13 pages.

17 TREVOR HOOK: Okay. Got that.

18 RICH STARK: And the other --

19 TREVOR HOOK: All right. Never mind then.

20 RICH STARK: And the other one --

21 TREVOR HOOK: It doesn't open, because it
22 says it's busted. So no worries.

23 RICH STARK: Yes. I'm struggling with this
24 computer system here.

25 TREVOR HOOK: No worries.

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1 RICH STARK: Yes. They just got an input

2 --

3 TREVOR HOOK: Actually, they both work.
4 So it just resolved itself now. So I've got the one
5 from your Blackberry. And I got the one that says it's
6 from RST01BHOC.

7 RICH STARK: That could be me.

8 TREVOR HOOK: That is you.

9 RICH STARK: Anyway, INPO just called in.
10 And I missed some of it. But there's some report of
11 some pretty high doses, even in the turbine building
12 in Unit 3.

13 TREVOR HOOK: Yes. Unit 3 is messed up.
14 There's still leaks. I'm wondering if a steam isolation
15 valve failed. And so there's a bunch of shit coming
16 into the turbine building that way. I don't know how
17 else it could get in there. Is the feed water on, maybe?

18 RICH STARK: Yes.

19 TREVOR HOOK: If the feed water line fails.

20 RICH STARK: Yes.

21 TREVOR HOOK: I don't know.

22 RICH STARK: Apparently, they're putting
23 fresh water in Unit 1 now. They got it from some pond,
24 and they put it in some tank. And they're able to pump
25 it in.

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1 TREVOR HOOK: Well that's very, very good.

2 RICH STARK: Yes. No boron, though. It's
3 the little bit I heard. I'll try to get better information
4 on that.

5 TREVOR HOOK: Well if we could get the
6 re-criticality, that would help clean this thing out.
7 All right. I didn't mean to say that.

8 RICH STARK: Yes, I know what you mean.
9 It's goofy, but, yes. Take care. Thanks.

10 TREVOR HOOK: This is when I don't know if
11 this line's recorded. Bye, bye.

12 RICH STARK: Right.

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(CONFERENCE CALL INITIATED)

RECORDING: Welcome to the conference calling center. At any time during this message please enter your pass code, followed by the pound sign. Your pass code has been confirmed.

If you need technical assistance during your call, press star 0. The leader has not activated this conference. Please stand by until your call begins. There are four parties in conference, including you.

ALEX: Hello, who's on the line?

JOY RENFI (phonetic): Joy Renfi's here.

ALEX: Hi, Joy.

JOY RENFI: Hi.

ALEX: Who else? I bet you, Jim, you're on. Because your pass code was used.

JIM: Yes, that's right. I'm here, Alex.

ALEX: Okay. Anybody else?

RICH STARK: Rich Stark.

ALEX: Okay. Hi, Rich. Are you down in the watch center, by the way?

RICH STARK: I'm at the NRC Incident Response Center.

ALEX: Okay, good. So we'll have you say a few words to the group.

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1 RICH STARK: Okay. It's pretty noisy here.
2 But I can do it.

3 ALEX: Okay. But just a few words is
4 necessary. All right. Anybody else? Okay. We're just
5 waiting for John at this point, and we'll get going.
6 So please stand by.

7 (Inaudible background conversations)

8 ALEX: Everybody, I have a few admin things
9 I'd like to bring up. So why don't we get going until
10 John shows up. Okay, good morning. A couple of things.

11 A little bit of uncertainty about the meeting
12 this morning. I apologize for that. John has been asked
13 to participate, NRC called. And I'm not sure what happened,
14 but it got --

15 That's why we shifted from 10:00 to 11:00
16 and then back to 10:00. But that will be one of the
17 issues that we have to think about in the future. He's
18 been asked to participate in a few more calls. And we'll
19 have to work our meeting schedule around that.

20 Along those lines, though, we are not planning
21 on having a 5 o'clock meeting. You know, starting today,
22 going forward. So, you know, so we will be meeting just
23 once a day for the group. And exactly when that meeting's
24 going to occur, I'm not sure of right now.

25 Hopefully we'll have an answer for you by

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1 the end of the day. Not completely certain that that's
2 going to happen. But we'll let you know as soon as it
3 is.

4 But right now, we're not planning to have
5 any meetings over the weekend, like last weekend, unless
6 an emergency occurs. And that's the point we'll call,
7 we'll notify everybody, and do a teleconference, or
8 however we're going to do that. Yes, sir.

9 (Inaudible background conversation)

10 ALEX: Did we have a time for that? Because
11 I'm speaking at it. Okay. Then we'll have to modify
12 this meeting. Because the thing I've been asked to do
13 on behalf of John and Sal --

14 And Sal's, you know, he's kind of the mid
15 watch watch commander here for the next few days, is
16 to provide a bit of an overview of the situation for
17 the NE staff, as well as an overview of what NE's doing
18 in the response.

19 So I'm putting together those presentations.

20 And I will warn you that I'm going to call out and ask
21 for assistance as necessary from NERF (phonetic) members.

22 So if you're in the audience and I see you, and I have
23 a question, or need some more information, I may pull
24 it.

25 But if I say something incorrect, I'll also

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1 point out that you guys are going to correct me as things
2 are going forward. So we will modify the Monday meeting
3 to accommodate the all hands.

4 I'm thinking like early afternoon may be
5 the right time for doing this. But I'm not certain on
6 that. On the other hand, Trevor and I have a conflict,
7 and Dan, at early afternoon. But we'll work that out.

8 Okay. So the other side is that we are --

9 I do too. I know Bob Lang's (phonetic)
10 arranging it. And I assume he's had contact with, you
11 know, all, Dennis, and Shane, and presumably Dave, to
12 make sure that they want to do this thing.

13 But I -- There's many all hands meeting
14 for Monday. Okay. So we're on. Okay. All right. I
15 have a few other admin things. But John's here now.
16 Okay.

17 So the other thing is that, you know, we
18 are thinking, we are starting to think about this thing
19 transitioning into a longer term activity. And so one
20 of the things that will have to happen is that people
21 need to identify, and some of you have done that already,
22 Japanese people who can sit in.

23 Because we all can't make every meeting.

24 That's just, you know, humanly impossible. So where
25 there's a meeting that you can't make, you need to designate,

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1 you know, somebody to stand in your place, you know.

2 Trevor, I'm thinking of you in particular,
3 since you're kind of the man, the sole supplier in your
4 area. So we need to figure out who the backups are going
5 to be for these sorts of things. Including myself, by
6 the way.

7 Last thing for me is that I talked to Sal
8 this morning, you know. And he is recognizing the impact
9 in people's work schedules that are going on, you know.

10 And he wants to offer, you know one of two alternatives.

11 If you, you know, he wants people to book
12 the time that they're spending. And, you know, if either
13 as request, you know, put it in so you can ask for comp
14 time, or ask for overtime.

15 If you're going to ask for overtime, the
16 thing you have to do is, you need to fill out the appropriate
17 paperwork. Not for this time period, but for time periods
18 going forward.

19 So, you know, just understand, everybody's
20 been doing a great job of stepping up and doing what
21 needs to be done. But we do want to make sure that people
22 get compensated, either through comp time or overtime,
23 in the proper way.

24 And Sal would be the person to help us figure
25 that out. According to Sal this morning, it does not,

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1 for this time period, but for the future in time. Okay.

2 We can get an exception for this, for the
3 meeting response. But then going forward. Okay? Okay.

4 That's it for me from the admin side. I didn't get
5 time to talk to -- Okay.

6 (Inaudible background conversations)

7 MALE PARTICIPANT: One of the other things
8 we may want to do, you know, is we've got Steven Coons
9 (phonetic), who is a chemist, and actually understands
10 some of these issues a bit better. And we may also want
11 to have him engaged.

12 When I talked to Turner (phonetic) about
13 this this morning, I think she was like (inaudible)
14 different materials. I know the lab's working on that.

15 But it may be useful to have someone engaged in that.

16 (Inaudible background conversations)

17 MALE PARTICIPANT: We agree there's the near
18 term, what's going on effort. And then there is the
19 longer term science council effort of dealing with issues.

20 There's a relation. But I think this term's, you know,
21 where are we today, and where were we, versus where are
22 we going to go?

23 ALEX: Okay, fine. Do we have EOC watch
24 (inaudible), Greg, were you, or who was the latest one?
25 Oh, was it Sal? Okay. Sal's on the other call. So

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1 we won't do that. Does anybody have any observations
2 from the USC side?

3 (Inaudible background conversations)

4 ALEX: Okay, good. Rich Stark, do you have
5 anything from the NRC perspective?

6 RICH STARK: They got a call from INPO, and
7 I only got bits and pieces of it. But it sounds like
8 they got fresh water to Unit 1, non borated, I think.

9 ALEX: Hang on a second, folks. Rich, please
10 go ahead.

11 RICH STARK: As I said, I just got some bits
12 and pieces of an INPO call. And it seems like they think
13 they have fresh water flow to Unit 1 right now. It's
14 non borated.

15 I think they got it from a pond. And they
16 put it in a tank. And I don't know what tank it was.

17 And they're able to do that. And I guess they got some
18 really high rad numbers on Unit 3.

19 They got some radioactive water in the turbine
20 building. They're not exactly sure from where it's coming
21 from just yet. And maybe I'll have more details later
22 on today.

23 ALEX: Okay. Very good. Thank you very
24 much.

25 RICH STARK: All right.

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1 ALEX: Okay. Let's go around the group.
2 Matt?
3 MALE PARTICIPANT: (Inaudible)
4 ALEX: Okay. Rick? Do I see Rick there?
5 MALE PARTICIPANT: Rick's not here.
6 (Inaudible).
7 ALEX: Okay. Tom.
8 MALE PARTICIPANT: (Inaudible).
9 ALEX: Okay. Trevor.
10 MALE PARTICIPANT: (Inaudible).
11 MALE PARTICIPANT: Say that again?
12 MALE PARTICIPANT: (Inaudible).
13 MALE PARTICIPANT: Oh, okay.
14 MALE PARTICIPANT: (Inaudible).
15 MALE PARTICIPANT: I think that's a good
16 excuse. Yes, the food and water shortages are --
17 MALE PARTICIPANT: (Inaudible).
18 MALE PARTICIPANT: So the workers in there
19 were injured. They had radiation burns. They burned
20 their skin. And so they're in there getting treated
21 for that. So I don't think, it wasn't an internal
22 contamination, I believe. Now the question I'd have
23 is, you know, I wonder where that water came from? That's
24 what everybody --
25 (Inaudible background conversations)

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1 MALE PARTICIPANT: Okay. But we don't --
2 The point is I don't think we know for sure.

3 (Inaudible background conversations)

4 MALE PARTICIPANT: Is that, that's the
5 number at the NRC. The watch station at -- Okay.

6 (Inaudible background conversations)
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(CONFERENCE CALL INITIATED)

RECORDING: The person at extension 3 --

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(CONFERENCE CALL INITIATED)

RECORDING: You have been forwarded to a voice mail system. However, the mailbox of the person at 67000 is full. Transferring to an attendant. One moment, please. A valid attendant number has not been specified. Your session cannot be continued at this time. Please try again later.

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(CONFERENCE CALL INITIATED)

RECORDING: The person at extension 3 --

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1
2 (CONFERENCE CALL INITIATED)

3 BRETT RINI: RST Brett Rini.

4 LEIGH TROCINE: Hi, Brett, this is Leigh
5 Trocine. How are you?

6 BRETT RINI: Good. How are you doing?

7 BRETT RINI: Good, how are you?

8 LEIGH TROCINE: Good, good. Hey, listen,
9 I'm kind of the night shift down at the USAID office
10 --

11 BRETT RINI: Okay.

12 LEIGH TROCINE: -- for NRC. I'm the NRC
13 on call night person.

14 BRETT RINI: Okay.

15 LEIGH TROCINE: And you guys may know
16 something about this, you may not. And maybe you can,
17 if it's not RST, maybe you can kind of put me in a different
18 direction, or suggest where I might be able to go. We
19 have, I know we have like seismologists on the NRC staff,
20 that kind of thing.

21 BRETT RINI: Yes.

22 LEIGH TROCINE: Has there been discussion
23 or talk about aftershocks? And, you know, I mean, I
24 know we don't really know the status of, you know, like
25 clearly a building that's, you know, designed to take

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1 a certain shake.

2 BRETT RINI: True.

3 LEIGH TROCINE: And now it's half a shake.

4 Is it still designed for that, you know? And what the
5 status of the equipment is inside we don't know.

6 BRETT RINI: Yes.

7 LEIGH TROCINE: But has there, have we had
8 people looking at potential aftershocks and, you know,
9 any --

10 BRETT RINI: Probably.

11 LEIGH TROCINE: -- progress on that regard?
12 Or how would I find that out?

13 BRETT RINI: Let me transfer you to Becky.
14 Do you know Becky Karas?

15 LEIGH TROCINE: No. But that's all right.

16 BRETT RINI: She's been coordinating the
17 seismologist schedules.

18 LEIGH TROCINE: Oh, okay.

19 BRETT RINI: And she's the branch chief for
20 one of the seismic branches in NRO.

21 LEIGH TROCINE: Oh, great. Koros is her
22 last name?

23 BRETT RINI: Karas, K-A-R-A-S.

24 LEIGH TROCINE: K-A-R-A-S, Becky. Okay.

25 BRETT RINI: So I will get you transferred

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1 to her, and she could probably help.

2 LEIGH TROCINE: Okay, great. Thank you.
3 Is she on the RST? Or is she on the PMT?

4 BRETT RINI: Actually, right now she's
5 working as an ET Chron (phonetic) Officer.

6 LEIGH TROCINE: Oh, oh, okay. Okay.

7 BRETT RINI: But she's coordinating the
8 schedule for the seismic staff.

9 LEIGH TROCINE: Right, right, right. Okay.
10 So she's probably the right person then.

11 BRETT RINI: Yes.

12 LEIGH TROCINE: That would be awesome.

13 BRETT RINI: Okay.

14 LEIGH TROCINE: Thank you.

15 BRETT RINI: I'll transfer you.

16 HEADQUARTERS OPERATIONS OFFICER: NRC
17 Operations Center, recorded line. Can I help you?

18 BRETT RINI: Hey, it's Brett in the RST.

19 HEADQUARTERS OPERATIONS OFFICER: Hey,
20 Brett.

21 BRETT RINI: Can you transfer this call to
22 Becky Karas in the ET Chron Officer position?

23 HEADQUARTERS OPERATIONS OFFICER: Sure can,
24 Brett. Hold on. And honestly what you could have done
25 (inaudible). But what you could have done is just, you

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1 know, if you've got one of the lists, is you could have
2 just dialed 5801 directly from your phone.

3 BRETT RINI: But I don't have her number.

4 HEADQUARTERS OPERATIONS OFFICER: Oh, you
5 don't?

6 BRETT RINI: No. Is there a list of all
7 the positions and the numbers somewhere?

8 HEADQUARTERS OPERATIONS OFFICER: Yes.

9 BRETT RINI: Okay.

10 HEADQUARTERS OPERATIONS OFFICER: We'll get
11 you a copy of that.

12 BRETT RINI: Okay.

13 HEADQUARTERS OPERATIONS OFFICER: Okay.

14 BRETT RINI: So do I have to hit anything?

15 HEADQUARTERS OPERATIONS OFFICER: Why don't
16 you just dial -- Why don't you hang up, and dial 5801.
17 And I'll get you a list.

18 BRETT RINI: Okay.

19 HEADQUARTERS OPERATIONS OFFICER: Bye.

20 BRETT RINI: Thanks. Bye. Leigh, are you
21 still there?

22 LEIGH TROCINE: Yes.

23 BRETT RINI: Okay. Let me try one other
24 thing.

25 CHRIS: NRC Operations Center. This is

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1 Chris. This is a recorded line.

2 BRETT RINI: Chris, is Becky in there?

3 CHRIS: Becky --

4 BRETT RINI: Karas.

5 CHRIS: Yes. Hold on just a minute.

6 BRETT RINI: Thank you.

7 BECKY KARAS: Yes, this is Becky Karas.

8 BRETT RINI: Hi, Becky, this is Brett.

9 BECKY KARAS: Hey.

10 BRETT RINI: Hey, I have Leigh Trocine on
11 the line. She's working down at USAID as the NRC rep.
12 And she has some questions about aftershocks.

13 BECKY KARAS: Oh, okay. That's not -- That
14 shouldn't be me though. That should be the on call
15 seismologist.

16 BRETT RINI: Okay.

17 BECKY KARAS: You shouldn't ask me, I'm a
18 nuclear engineer.

19 BRETT RINI: Okay.

20 BECKY KARAS: Even though I manage the --
21 Did you guys just get the list on the seismologists
22 on call?

23 BRETT RINI: Yes.

24 BECKY KARAS: Yes. Call that person.

25 BRETT RINI: We want to call them at this

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1 time of night?

2 BECKY KARAS: They're on call for those
3 shifts --

4 BRETT RINI: Okay.

5 BECKY KARAS: -- that are designated on there.
6 So, yes, you just call. It should be on the roster.
7 I can't remember who's on call for tonight. But it
8 should be on the regular, on the shift list. Hang on.
9 Let me ask. Who's the on call seismologist right now?

10 (Inaudible background conversations)

11 BECKY KARAS: It's actually Annie right now.
12 But even though we're getting her off of the list right
13 now, it's still her.

14 BRETT RINI: Okay.

15 BECKY KARAS: Okay?

16 BRETT RINI: Okay. I should have the call
17 list here.

18 BECKY KARAS: Hang on, hang on, hang on.

19 BRETT RINI: But I don't know where it is.

20 BECKY KARAS: Let me give you her phone number
21 from my phone.

22 BRETT RINI: So you're just the seismic
23 branch chief, but not --

24 BECKY KARAS: I'm just a branch chief. I'm
25 stupid. No, no, I'm -- No, that's why I keep coming

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1 over there. Because I'm nuclear engineering. Okay.

2 Let's see, Annie, okay, is (b)(6)

3 BRETT RINI: Okay.

4 BECKY KARAS: Okay?

5 BRETT RINI: Thank you.

6 BECKY KARAS: All right. Bye.

7 BRETT RINI: All right. Bye. Leigh?

8 LEIGH TROCINE: Yes.

9 BRETT RINI: Okay, I talked to Becky. She
10 recommended calling the seismologist who's on shift.
11 Do you want me to give you her number?

12 LEIGH TROCINE: If you wouldn't mind, that
13 would be great.

14 BRETT RINI: Okay. Her name's Annie
15 Kammerer. It's K-A-M-M-E-R-E-R. Her phone number is

16 (b)(6)

17 LEIGH TROCINE: Okay, (b)(6)

18 BRETT RINI: Yes.

19 LEIGH TROCINE: And where is that?

20 BRETT RINI: Probably (b)(6) She's
21 local. But it's probably a (b)(6) number.

22 LEIGH TROCINE: Okay, okay. So Annie --

23 BRETT RINI: She works in research.

24 LEIGH TROCINE: Okay. Okay. I'll give her
25 a call.

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BRETT RINI: All right.

LEIGH TROCINE: Thank you.

BRETT RINI: Thank you.

LEIGH TROCINE: Bye, bye.

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(CONFERENCE CALL INITIATED)

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
RST Coordinator Audio Files

Docket Number: N/A

Location: N/A

Date: March 26, 2011

Work Order No.: NRC-4222

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4 JAPAN'S FUKUSHIMA DAIICHI
5 RST COORDINATOR AUDIO FILES

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7 SATURDAY,

8 MARCH 26, 2011

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1
2 (CONFERENCE CALL INITIATED)

3 FRANK: Reactor Safety Team. This is a
4 recorded line.

5 HEADQUARTERS OPERATIONS OFFICER: I have
6 Leigh Trocine, and I guess she wants to talk to Frank.

7 FRANK: Okay. Thank you.

8 LEIGH TROCINE: Hello.

9 FRANK: Hi, Leigh.

10 LEIGH TROCINE: Hey, how's it going.

11 FRANK: Good, good. We don't need that email
12 address.

13 LEIGH TROCINE: Okay, yes. It's kind of
14 lengthy, but it sort of makes sense. It's RMT PACTSU,
15 which is Response Monitoring Team Pacific Tsunami.

16 FRANK: Do the letters out phonetically.

17 LEIGH TROCINE: Okay. Romeo, Mama, Tango,
18 Papa, Alpha, Charlie, Tango, Sierra, Umbrella.

19 FRANK: Okay.

20 LEIGH TROCINE: What that stands for is
21 Response Monitoring Team Pacific Tsunami. And then
22 underscore, Echo, Lima, NRC. And that's Expert Liaison,
23 NRC.

24 FRANK: Echo, Lima, NRC, all one --

25 LEIGH TROCINE: All one together, yes.

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1 FRANK: -- straight?

2 LEIGH TROCINE: So RMTPACTSU_ELNRC.

3 FRANK: Okay.

4 LEIGH TROCINE: At OFDA, which is Office
5 of Foreign Disaster Assistance, Oscar, Foxtrot, Delta,
6 Alpha, dot gov.

7 FRANK: Okay. I got it.

8 LEIGH TROCINE: Thank you. Now the 11
9 o'clock call, I know, because it's 3 o'clock and 11 o'clock.

10 And I turned over to the guys, you know, that were on
11 day shift, that hey, there was an 11 o'clock call. And
12 I just assumed it would be the same bridge number.

13 FRANK: Let me check. Hold on.

14 LEIGH TROCINE: But, yes, they called. They
15 said they didn't get anything. Thanks.

16 FRANK: Same number, different pass code.

17 LEIGH TROCINE: Ah, that's it. Okay.

18 FRANK: Pass code is (b)(6)

19 LEIGH TROCINE: I'm sorry, so (b)(6)

20 FRANK: Yes.

21 LEIGH TROCINE: Fabulous. Thank you very
22 much, Frank. I appreciate your help.

23 FRANK: Okay.

24 LEIGH TROCINE: Take care. Bye.

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(CONFERENCE CALL INITIATED)

FRANK: Reactor Safety Team. This is a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Yes, this is the HOO. I have Tony from Japan wanting to connect.

FRANK: Hang on a second. Let me get the directory here. Well go ahead and connect him.

HEADQUARTERS OPERATIONS OFFICER: Okay.

FRANK: Tony Nakanishi on the line. What's the number on that one?

BRIAN HOLIAN: Tony, Brian Holian.

TONY NAKANISHI: Oh, hi, Brian. How are you?

BRIAN HOLIAN: Good.

TONY NAKANISHI: Hey, just a real quick one. I saw the latest -- And sorry I couldn't participate in --

BRIAN HOLIAN: In that phone call, yes.

TONY NAKANISHI: -- the call today.

BRIAN HOLIAN: We just emailed back to you. There's been swings and miss. There's been some complaints about version control on these documents.

TONY NAKANISHI: Okay.

BRIAN HOLIAN: I just emailed back to your

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1 team members. And they said they're pretty sure. But
2 the copy we gave to the Japanese, I want to make sure
3 it was the 1400 version up top.

4 TONY NAKANISHI: Okay.

5 BRIAN HOLIAN: Were you there when you gave
6 it to them?

7 TONY NAKANISHI: No.

8 BRIAN HOLIAN: Or do you know the version
9 we gave them?

10 TONY NAKANISHI: Well this would have been
11 yesterday sometime.

12 BRIAN HOLIAN: Yes. Yesterday at 1400, yes.

13 TONY NAKANISHI: Yes, well --

14 BRIAN HOLIAN: We're pretty sure that's the
15 one that you guys gave to Japan.

16 TONY NAKANISHI: That's okay. Because I
17 think, you know, the understanding is we're going to
18 update this and --

19 BRIAN HOLIAN: Yes, I know, I know, I know,
20 Tony. Sorry. But at swings they did it. They sent you
21 an email that said a 2030, 1400 revised as of 2030.

22 (b)(5)
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1 Had you heard that?

2 TONY NAKANISHI: No, I did not, no.

3 BRIAN HOLIAN: Maybe you hadn't heard that.
4 That was a whole Peyton Place on a couple of shifts
5 ago.

6 TONY NAKANISHI: Okay.

7 BRIAN HOLIAN: And they sent that out. And
8 then people were-- It didn't go out on a redline strikeout.
9 It just went out. And people don't like having to compare,
10 you know, to some previous version and it's all blank,
11 you know.

12 TONY NAKANISHI: Right.

13 BRIAN HOLIAN: They got to read word for
14 word.

15 TONY NAKANISHI: Understand.

16 BRIAN HOLIAN: All right. So we're going
17 back. I'm going to try to send you something in an hour
18 that is an update, excuse me, from that 1400 one. Redline,
19 strikeout version.

20 TONY NAKANISHI: Okay. Wow, that's great.

21 BRIAN HOLIAN: And it's a living document.
22 And they'll do that. And I promised Mike Scott to get
23 a little bit more in on hydrogen. I don't know if we'll
24 have it on that version. But at 11 o'clock they're going
25 to try to talk a little bit more on that.

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1 TONY NAKANISHI: Okay. So one additional

2 --

3 BRIAN HOLIAN: Yes.

4 TONY NAKANISHI: -- modification to that
5 document.

6 BRIAN HOLIAN: Okay, yes.

7 TONY NAKANISHI: We make, and basically in
8 all of the unit statuses --

9 BRIAN HOLIAN: Yes.

10 TONY NAKANISHI: -- under recommendations.

11 BRIAN HOLIAN: Yes.

12 TONY NAKANISHI: Do you have it in front
13 of you.

14 BRIAN HOLIAN: I'm going to stretch the phone
15 out, then I'll be right there, yes.

16 TONY NAKANISHI: Okay.

17 BRIAN HOLIAN: Are you able to swap this,
18 or not? Easily to here, to this phone? Oh, here, can
19 you do that. Hang on, I'm going to try to swap you,
20 okay?

21 TONY NAKANISHI: Okay.

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(CONFERENCE CALL INITIATED)

FRANK COLLINS: Reactor Safety Team,
recorded line. Hello, Reactor Safety Team. This is a
recorded line.

HEADQUARTERS OPERATIONS OFFICER: Yes, this
is the HOO. I have Mr. Taylor from your Japan contingency
wanting to connect with you.

FRANK COLLINS: Okay. Thank you.

HEADQUARTERS OPERATIONS OFFICER: What line
are you wanting me to call in? Because every time you
seem to be hesitant to take the call.

FRANK COLLINS: No. I'm just the Reactor
Safety Team coordinator. And I always look around to
see where the director is.

HEADQUARTERS OPERATIONS OFFICER: Okay.

FRANK COLLINS: So the director can take
the call. But he's in conference right now in the ET.
So I'll take the call.

HEADQUARTERS OPERATIONS OFFICER: Okay.
Thank you.

FRANK COLLINS: Hello, Reactor Safety Team.
Hello.

ROB TAYLOR: Hello.

FRANK COLLINS: Hello. Yes, it's Frank

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1 Collins. I'm Reactor Safety Team. I'm the coordinator.

2 ROB TAYLOR: Hey, Frank. It's Rob Taylor
3 over in Japan.

4 FRANK COLLINS: Yes, sir.

5 ROB TAYLOR: Hey, a question for you, sir.
6 Can we ask someone there to look into something? We
7 got handed a, Tony Nakanishi got handed four pages of
8 a NUREG CR. It's 2726. And it's called The Light Water
9 Reactor Hydrogen Manual. So it's one of our documents
10 that the Japanese have.

11 And the question to us is, can they use this
12 document? And they specifically handed us the pages
13 containing Section 2.3 on Combustion of Hydrogen. And
14 they asked us if they could use this document to assess
15 potential further hydrogen explosions at the site.

16 And they only gave us three pages of it,
17 Pages 2-28, 2-29, and 2-30, right. And it looks like
18 the initial stuff of how to do a calculation for the
19 effects of a hydrogen explosion.

20 But Ralph Way's here with me. It doesn't
21 necessarily look like it has all the information that
22 they might need to do the calculation, like reflection
23 forces, and such.

24 So we'd like somebody to take a look there,
25 at this document, and see if it's, if there's more to

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1 it. And whether we can recommend that they use this
2 for further assessment of hydrogen explosions on site.

3 FRANK COLLINS: Okay. NUREG CR 2726?

4 ROB TAYLOR: Correct.

5 FRANK COLLINS: Section --

6 ROB TAYLOR: Sandia report.

7 FRANK COLLINS: Section 2.3. And it's Pages
8 2- --

9 ROB TAYLOR: Section 2.3, Combustion of
10 Hydrogen. And they gave us Pages 28, 29 and 30. So we
11 don't know what else is beyond it. So we don't know
12 if this is a complete document for assessing hydrogen
13 explosions, or what's in it beyond it.

14 FRANK COLLINS: Right. Right. Well that's
15 --

16 ROB TAYLOR: We think it is. But we don't
17 want to send them down the wrong road, and have them
18 using half the information they need to do assessments.

19 FRANK COLLINS: Yes, right, right.

20 ROB TAYLOR: Okay?

21 FRANK COLLINS: Is Dr. Way with the team?

22 ROB TAYLOR: Yes.

23 DR. WAY: Yes. It would probably give them
24 enough to calculate the initiating event. But it won't
25 get them to where they can understand what the effect

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1 will be. Who's this?

2 FRANK COLLINS: It's Frank Collins.

3 ROB TAYLOR: Hey, Tony just faxed it to you
4 as well, the pages that we have.

5 FRANK COLLINS: Okay.

6 ROB TAYLOR: So you can see what we actually
7 have.

8 FRANK COLLINS: Okay, good. Thank you.
9 Well I'll get this sent. And then we'll be getting back
10 to you as quick as we can.

11 ROB TAYLOR: Great. We appreciate it.

12 DR. WAY: Thanks, Frank.

13 FRANK COLLINS: Okay.

14 ROB TAYLOR: Take care.

15 FRANK COLLINS: Brian right now --
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1
2 (CONFERENCE CALL INITIATED)

3 FRANK COLLINS: Reactor Safety Team,
4 recorded line.

5 HEADQUARTERS OPERATIONS OFFICER: Yes, this
6 is the HOO. I have INPO on the line. He wanted to talk
7 to the Director or the Deputy. I told him that they
8 might be in meetings, but that I'd connect the call.

9 FRANK COLLINS: Let me get him.

10 HEADQUARTERS OPERATIONS OFFICER: Okay.

11 FRANK COLLINS: Hello.

12 HEADQUARTERS OPERATIONS OFFICER: Yes, I'm
13 going to connect you.

14 FRANK COLLINS: Okay.

15 HEADQUARTERS OPERATIONS OFFICER: Thank
16 you.

17 FRANK COLLINS: Hello.

18 SEAN: Hello, this is Sean.

19 FRANK COLLINS: Hey, Sean. I'm going to
20 transfer you to Brian Holian. Hang on just a second.

21 SEAN: Thank you.
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1
2 (CONFERENCE CALL INITIATED)

3 FRANK COLLINS: Reactor Safety Team,
4 recorded line.

5 HEADQUARTERS OPERATIONS OFFICER: Yes, this
6 is the HOO. This is Sean for Brian.

7 FRANK COLLINS: (Inaudible). Go ahead and
8 bring it in.

9 HEADQUARTERS OPERATIONS OFFICER: Okay.

10 FRANK COLLINS: Sean?

11 (Inaudible background conversation)

12 FRANK COLLINS: Hello, Sean?

13 SEAN: Yes, good morning.

14 FRANK COLLINS: Good morning. It's Frank
15 Collins, the Reactor Safety Team coordinator. I'm
16 getting Brian for you.

17 SEAN: Okay. Thank you.

18 FRANK COLLINS: Brian, I have Sean on the
19 line. I'm going to transfer you.

20 SEAN: Thank you.

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2 (CONFERENCE CALL INITIATED)

3 PAUL NICHOLS (phonetic): Goodmorning, Paul
4 Nichols, DEA.

5 FRANK COLLINS: Goodmorning. This is Frank
6 Collins, Reactor Safety Team at NRC>

7 PAUL NICHOLS: Yes, sir.

8 FRANK COLLINS: This is a recorded line,
9 by the way. We have a conference call started up here,
10 with INPO and the Reactor Safety Team. We were wondering
11 whether you guys wanted to get on this call.

12 PAUL NICHOLS: What's it about?

13 FRANK COLLINS: It's on the recommendations
14 and the RST assessment.

15 PAUL NICHOLS: Sure.

16 FRANK COLLINS: And so if you would call
17 in to our Operations Center, they'll connect you.

18 PAUL NICHOLS: Okay. And which line do we
19 ask?

20 FRANK COLLINS: I'm not sure where they're
21 calling, which bridge it is. If you just ask them to
22 connect you to the Reactor Safety Team conference.

23 PAUL NICHOLS: Okay.

24 FRANK COLLINS: I'll tell them that you're
25 expected.

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PAUL NICHOLS: Okay. Thank you.

FRANK COLLINS: Thank you.

PAUL NICHOLS: Yes, bye, bye.

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0%R8NI#605065094

1
2 (CONFERENCE CALL INITIATED)

3 ERIC THOMAS: Reactor Safety Team, Eric
4 Thomas.

5 HEADQUARTERS OPERATIONS OFFICER: Hey, Eric,
6 Mike Dudek's calling in.

7 ERIC THOMAS: Okay.

8 HEADQUARTERS OPERATIONS OFFICER: I'll
9 patch you in now.

10 MIKE DUDEK: Hello.

11 ERIC THOMAS: Hi, Mike.

12 MIKE DUDEK: Hi.

13 ERIC THOMAS: What's up?

14 MIKE DUDEK: Who is this?

15 ERIC THOMAS: This is Eric.

16 MIKE DUDEK: Hi, Eric. What's going on?

17 ERIC THOMAS: I don't know, nothing.

18 MIKE DUDEK: Hey, who's your RST director
19 right now?

20 ERIC THOMAS: Pat Hiland.

21 MIKE DUDEK: Can I speak to him, please?
22 Is he busy?

23 ERIC THOMAS: He's -- Hold on a sec. What's
24 up? Is it something I can --

25 MIKE DUDEK: I just want to know what to

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1 do with the consortium calls. Because I was thrown a
2 tasking from the LT to figure out, you know, who's paying
3 and who should lead these calls, instead of the NRC.

4 ERIC THOMAS: Who's paying and who should
5 lead the call?

6 MIKE DUDEK: Yes.

7 ERIC THOMAS: I don't know if he's going
8 to know that.

9 MIKE DUDEK: Has he been leading these calls?

10 ERIC THOMAS: Yes. I mean, there's two
11 different consortium calls, right? There's the one that
12 is the ET level. And then there's the one that's our
13 level. What do you mean by who's paying?

14 MIKE DUDEK: They're constantly -- This
15 was the 4:30 call yesterday, correct?

16 ERIC THOMAS: Hold on. We don't do a 4:30
17 call.

18 MIKE DUDEK: Well, there was a consortium
19 call yesterday. And there was -- Maybe I'm getting the
20 two consortium calls confused. Because I was thrown
21 a, from Mike Schultz.

22 We got this request from the Government of
23 Japan, these 14 items. And the RST is working with INPO
24 and a bunch of other people to put together a list of
25 things that it would be good to send over and coordinate

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1 this effort. But the --

2 ERIC THOMAS: It's not necessarily materials
3 to send over. It's like industry recommendations.

4 MIKE DUDEK: Right. But doesn't the -- The
5 questions keep coming back to who's paying, and who's
6 going to ship it? Am I talking about --

7 ERIC THOMAS: I don't know that we're talking
8 about shipping anything. Hold on.

9 MIKE DUDEK: So what is even the point of
10 these calls?

11 (Inaudible background conversation)

12 ERIC THOMAS: Yes, I think most of those
13 tasks are going to DoE, if they're getting assigned at
14 all. We're not involved in sending any equipment over.

15 MIKE DUDEK: All right. So can you guys
16 touch base with Mike Schultz and tell him that?

17 ERIC THOMAS: Yes.

18 MIKE DUDEK: Because he --

19 ERIC THOMAS: He was just in here talking
20 to Pat Hiland.

21 MIKE DUDEK: All right. Because he called
22 me earlier today and said, get USAID ready to step up
23 and start shipping this stuff. And who's going to pay
24 for it and lead this call every day?

25 ERIC THOMAS: What stuff, though?

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1 MIKE DUDEK: I don't know. That's why I'm
2 trying to track down what the heck he's talking about.

3 ERIC THOMAS: I'll go talk to him. I got
4 you at (b)(6)

5 MIKE DUDEK: Yes. Maybe I'm blowing this
6 way out of proportion. Maybe I'm just late on following
7 up on his phone call. But I --

8 ERIC THOMAS: Maybe you're just bored, and
9 felt like you needed something to do?

10 MIKE DUDEK: Maybe I do.

11 ERIC THOMAS: No.

12 MIKE DUDEK: No. But, I mean, USAID can
13 -- Look, I'm your liaison with USAID.

14 ERIC THOMAS: Right, right, right. No. I
15 mean, according to what we're seeing, I mean, there's
16 been no discussion of any equipment shipments, or
17 coordination thereof, since a few days ago when we were
18 talking about sending that pumping system up from Perth.

19 MIKE DUDEK: Yes, we already did that.

20 ERIC THOMAS: Right. I mean, that's already
21 done. So as far --

22 MIKE DUDEK: I think --

23 ERIC THOMAS: -- as other assets --

24 MIKE DUDEK: I think he's looking for someone
25 to actually lead this call with INPO, instead of the

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1 NRC.

2 ERIC THOMAS: Okay. I think we're talking
3 about two different calls.

4 MIKE DUDEK: Okay.

5 ERIC THOMAS: The one that he's talking about,
6 we don't call in on. There's a consortium call where
7 they talk a lot about, most of the action items go to
8 DoE.

9 MIKE DUDEK: Yes.

10 ERIC THOMAS: And then there's a consortium
11 call that we are in on, with like GE Hitachi and INPO,
12 and Kappel (phonetic) and Bettis (phonetic), and all
13 those guys.

14 MIKE DUDEK: Yes.

15 ERIC THOMAS: Where we talk about, okay,
16 what should be in our Reactor Safety Team assessment
17 document? What do we think the condition of the core
18 is? What are we recommending that they do, as far as
19 flooding containments, you know, injection rates, that
20 kind of stuff.

21 MIKE DUDEK: And that's the 1 o'clock call
22 today?

23 ERIC THOMAS: That's the 1 o'clock call
24 today.

25 MIKE DUDEK: All right. I'm talking about

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1 something totally different then.

2 ERIC THOMAS: Yes. The other thing is, we're
3 totally out of that loop, other than getting the meeting
4 minutes. But I can go talk to Schultz and --

5 MIKE DUDEK: No, don't. I'll talk to him,
6 and see if he's got any clarity on what exactly this
7 was.

8 ERIC THOMAS: Yes, I mean, it's -- As far
9 as I know, it's not an RST issue.

10 MIKE DUDEK: Yes. All right. I think he's
11 as confused as I was.

12 ERIC THOMAS: Yes. But, I mean, you know,
13 certainly if he has an RST type question, or if he wants
14 to know what we're talking about in our consortium calls,
15 he's more than welcome to step over.

16 MIKE DUDEK: All right. So don't take any
17 action. I just wanted to thank you for the clarity.

18 ERIC THOMAS: Yes, sure.

19 MIKE DUDEK: All right.

20 ERIC THOMAS: Okay, Mike.

21 MIKE DUDEK: Bye.

22 ERIC THOMAS: Bye.
23
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(CONFERENCE CALL INITIATED)

ERIC THOMAS: Reactor Safety Team, this is Eric.

MALE PARTICIPANT: Yes, this is (inaudible) from down in U.S. Forces Japan. And we've just been given a report that someone from the NRC was just stating that the water level in the Number 3 turbine building at Fukushima was increasing.

ERIC THOMAS: Okay.

MALE PARTICIPANT: Just trying to find out if you guys are aware of that? Or whether it was reported to you? And if so, do you have any idea what the force of the water is, or (inaudible).

ERIC THOMAS: Hold on a second. Who am I speaking with?

MALE PARTICIPANT: This is (inaudible) with U.S. Forces Japan.

ERIC THOMAS: Okay. Hold on just a second. Let's see. Recommendations, fuel pool, water flow. Where did you get your report from?

MALE PARTICIPANT: Basically we have a daily, or I guess bi-daily phone call with Naval Reactors. And during that and NRC rep had reported this.

ERIC THOMAS: Yes. Well, I mean, that guy's

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1 standing right here.

2 MALE PARTICIPANT: Okay.

3 ERIC THOMAS: He's in the same room as me.

4 MALE PARTICIPANT: So is that accurate?

5 ERIC THOMAS: He was off doing his call.

6 Well, I just want to make sure I've got everybody's
7 agreement here. Hold on just a second.

8 (Inaudible background conversation)

9 ERIC THOMAS: Lieutenant?

10 MALE PARTICIPANT: Yes.

11 ERIC THOMAS: Okay. Yes, we don't know where
12 that water's coming from. I mean, we have ideas that,
13 you know, it could be coming from various parts, various
14 potential leakage sources of the reactor itself. Okay.
15 We have some information about the isotopic makeup of
16 the water that suggests that conclusion. But we don't
17 have any real data that is telling us exactly where it's
18 coming from.

19 MALE PARTICIPANT: It may be coming from
20 primary, sub primary --

21 ERIC THOMAS: It could be coming from the
22 reactor coolant system, that's correct.

23 MALE PARTICIPANT: All right. So I guess
24 if you get additional information on that, can you make
25 sure that we get that?

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1 ERIC THOMAS: What's the point of contact
2 there? I mean, do you want to work that through Naval
3 Reactors, since you guys seem to have an open line with
4 them? Because this, the Naval Reactors guy is, he has
5 direct access to everything that we're putting out.

6 MALE PARTICIPANT: Okay.

7 ERIC THOMAS: So I just think, you know,
8 it may be better, in lieu of, you know, adding another
9 POC on what we're dealing with industry on, maybe work
10 through Naval Reactors to get that information. Is that
11 acceptable?

12 MALE PARTICIPANT: Well generally, I mean,
13 you guys have been pretty forthcoming with any information.
14 You've been pretty supportive in giving the information
15 flow to us --

16 ERIC THOMAS: Okay.

17 MALE PARTICIPANT: -- throughout this whole
18 endeavor.

19 ERIC THOMAS: Is there an email, or a --

20 MALE PARTICIPANT: Yes. Basically, the
21 email address we have is (b)(6)

22 ERIC THOMAS: Okay,

23 (b)(6)

24 MALE PARTICIPANT: That's correct, sir.

25 ERIC THOMAS: Okay, got it.

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1 MALE PARTICIPANT: We're on a lot of your
2 distributions anyway.

3 ERIC THOMAS: Yes, yes.

4 MALE PARTICIPANT: So, I mean, it was, as
5 you get more information we'd just like to keep people
6 informed over here.

7 ERIC THOMAS: Will do.

8 MALE PARTICIPANT: All right. Thanks, sir.

9 ERIC THOMAS: All right. Thank you. Bye,
10 bye.

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(CONFERENCE CALL INITIATED)

MARK ORR: RST, this is Mark Orr on a recorded line.

HEADQUARTERS OPERATIONS OFFICER: Hey, Mark, I've got a Mr. Huckabee (phonetic) wants to speak to Mr. Norton.

MARK ORR: I'm sorry, to who?

HEADQUARTERS OPERATIONS OFFICER: Mr. Norton. But, you know --

MARK ORR: Oh, Chuck Norton, yes.

HEADQUARTERS OPERATIONS OFFICER: Yes, what number is he on, if you want me to --

MARK ORR: Oh, hang on a second, I can get him. It's easier.

HEADQUARTERS OPERATIONS OFFICER: Okay.

CHUCK NORTON: From INPO?

HEADQUARTERS OPERATIONS OFFICER: Yes, Huckabee from INPO.

CHUCK NORTON: And you know we're on a recorded line?

HEADQUARTERS OPERATIONS OFFICER: Hold on. I'll connect you through to him.

TOM HUCKABEE: Hello, this is Tom Huckabee at INPO.

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1 CHUCK NORTON: Hi, Tom. Did you get our
2 email?

3 TOM HUCKABEE: Yes.

4 CHUCK NORTON: Okay. Do you have, is this
5 a good time to talk about --

6 TOM HUCKABEE: Yes. We've printed it out.
7 We have the same two people who gave input to the document
8 throughout the day, mostly with, you know, Mike Brown.
9 And we were wondering did we need GE or EPRI on the
10 line? Or, can we just talk through it and take care
11 of it?

12 CHUCK NORTON: Well, let's see if we can
13 talk through it and take care of it. Can I call you
14 back? BECAUSE when they picked up the phone here, they
15 picked it up at a station that's kind of in a corner.
16 And I've got all the SAM-Gs and stuff at another station
17 here.

18 TOM HUCKABEE: Okay.

19 CHUCK NORTON: So what's a good direct number
20 for me to call you?

21 TOM HUCKABEE:

(b)(6)

22 CHUCK NORTON:

23 TOM HUCKABEE: That's correct.

24 CHUCK NORTON: All right. I'll call you
25 directly.

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TOM HUCKABEE: Thank you.

CHUCK NORTON: Bye.

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NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
RST Coordinator Audio Files

Docket Number: N/A

Location: N/A

Date: March 27, 2011

Work Order No.: NRC-4222

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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SUNDAY,
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(CONFERENCE CALL INITIATED)

BRETT RINI: RST, Brett Rini

HEADQUARTERS OPERATIONS OFFICER: I have
Leigh Trocine for you.

BRETT RINI: Sure. Leigh?

LEIGH TROCINE: Hey.

BRETT RINI: Hey, it's Brett Rini. How are
you.

LEIGH TROCINE: Hey, good, Brett. Hey
listen, I was just getting into my email, and I wanted
to give you sort of the location email here. Because,
you know, there are other people that are going to be
on shift at different hours --

BRETT RINI: Okay.

LEIGH TROCINE: -- that may be calling in.
And I had given them to Frank last night. So I don't
know what happened to it. But that way, you know, anybody
who's here would have access to that, you know.

BRETT RINI: No, that makes sense.

LEIGH TROCINE: And it's kind of along email.
And I'll tell you what it means, so it will make sense.
But it's Romeo, Mama, Tango, Papa, Alpha, Charlie, Tango,
Sierra, Umbrella, underscore, Echo, Lima, N-R-C. And
what that stands for, before I finish the rest of it

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1 is, RMT is the Response Management Team.

2 BRETT RINI: Okay.

3 LEIGH TROCINE: PAC is Pacific, TSU is
4 tsunami. The Underscore is just sort of changing it
5 to, you know, whatever office is in here.

6 BRETT RINI: Okay.

7 LEIGH TROCINE: ELNRC is like, I don't know,
8 expert liaison NRC, or something like that.

9 BRETT RINI: Okay.

10 LEIGH TROCINE: Okay, at, and it's OFDA,
11 which is Office of Foreign Defense Assistance, I think.
12 So Oscar, Foxtrot, Delta, Alpha, dot gov.

13 BRETT RINI: Okay.

14 LEIGH TROCINE: Okay. And that way,
15 whoever's here will have access to that.

16 BRETT RINI: Okay. And you guys are doing
17 eight hour shifts too?

18 LEIGH TROCINE: We're doing 12.

19 BRETT RINI: Oh.

20 LEIGH TROCINE: Yes, 7:00 to 7:00.

21 BRETT RINI: Okay.

22 LEIGH TROCINE: And plus, you know, whatever
23 turnover is at the end of it, yes.

24 BRETT RINI: So --

25 LEIGH TROCINE: And there's somebody here

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1 24 hours.

2 BRETT RINI: Okay. What -- Aside from our
3 periodic assessment, what other stuff do you want?

4 LEIGH TROCINE: Now, a couple of nights ago
5 -- Let me see here. Wait a minute. Let me get back
6 into this other email before it locks me out. Where
7 did it go? Bear with me just a second.

8 BRETT RINI: Okay.

9 LEIGH TROCINE: Yes, there was a -- Oh,
10 I think this was it. It's not opening for some reason.
11 Why is it not opening? Oh, it's because of this web
12 thing. It's like a -- I hate the web thing.

13 Yes. There was a document, and I think --
14 Is it this? That I got, yes, with a different unit.
15 That's this. And then there was one actually that was
16 red line marked up on, you know, hey, here's what we're
17 doing. That's probably the most important one.

18 BRETT RINI: Okay. I see it here.

19 LEIGH TROCINE: But if there's, you know,
20 something key that you guys are going to talk about,
21 you know, during the call, you know, whatever would be
22 helpful.

23 BRETT RINI: Okay.

24 LEIGH TROCINE: Okay?

25 BRETT RINI: So we should basically just

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1 send --

2 LEIGH TROCINE: Just put me on distribution.

3 Or put that email address on distribution.

4 BRETT RINI: Anything that we send out to
5 that consortium?

6 LEIGH TROCINE: Yes, if that's okay.

7 BRETT RINI: Yes. I don't see any problem
8 with that.

9 LEIGH TROCINE: That would be awesome.

10 BRETT RINI: So I'll put that in the log.

11 And then turn it over to Peter in the morning. And
12 hopefully we can turn it on.

13 LEIGH TROCINE: Sort of make that happen.

14 That would be great. That would be great. And I'm sorry
15 to be a pain about it. But it's just easier to kind
16 of follow the calls if you have the stuff.

17 BRETT RINI: No, that makes sense.

18 LEIGH TROCINE: Okay?

19 BRETT RINI: Yes.

20 LEIGH TROCINE: Thanks so much.

21 BRETT RINI: Yes. Let me know if you need
22 anything else.

23 LEIGH TROCINE: Okay. Appreciate it.

24 BRETT RINI: Okay, bye.

25 LEIGH TROCINE: Bye.

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
RST Coordinator Audio Files

Docket Number: N/A

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Date: March 28, 2011

Work Order No.: NRC-4222

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JAPAN'S FUKUSHIMA DAIICHI
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MONDAY,
MARCH 28, 2011

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(CONFERENCE CALL INITIATED)

JERRY WILSON: Jerry Wilson.

RICH STARK: Jerry Wilson, Rich Stark. How are you doing?

JERRY WILSON: Hey, how are you doing? I haven't heard from you in a while.

RICH STARK: I'm up in your incident response center.

JERRY WILSON: Really?

RICH STARK: Yes.

JERRY WILSON: Well, you're down in my incident response center.

RICH STARK: Oh, okay.

JERRY WILSON: Are you on the fourth floor?

RICH STARK: Correct.

JERRY WILSON: Hey, when the hell did you do that?

RICH STARK: I was here Friday. I tried to call you. I didn't reach you, thought.

JERRY WILSON: That's because I took Friday off.

RICH STARK: That could be it. Yes, so I'm down here now.

JERRY WILSON: Thanks for volunteering.

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1 RICH STARK: Yes. So you're up on the sixth
2 floor?

3 JERRY WILSON: Yes.

4 RICH STARK: I've got an unlimited badge
5 here. I guess I can go up and visit you.

6 JERRY WILSON: If you can get in on the fourth
7 floor, you can get on the sixth floor.

8 RICH STARK: I can get in --

9 JERRY WILSON: The fourth floor is the
10 hardest one to get into in the whole friggin building.

11 RICH STARK: I get in with no problem. They
12 give me badges that open everything.

13 JERRY WILSON: Well good.

14 RICH STARK: So I'll stop up. You're in
15 6D30?

16 JERRY WILSON: Yes. I'm going to an 11
17 o'clock meeting. So we got a half hour.

18 RICH STARK: I'll run out of stuff in five
19 minutes. I'll see you then.

20 JERRY WILSON: Right. Bye.

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(CONFERENCE CALL INITIATED)

FRANK COLLINS: Reactor Safety Team.

Recorded line.

HEADQUARTERS OPERATIONS OFFICER: Yes, hi,
it's the Ops Officer. I've got Leigh Trocine on the
line. Stand by.

FRANK COLLINS: Yes, go ahead.

LEIGH TROCINE: Hello.

FRANK COLLINS: Hi, Leigh, Frank Collins.

LEIGH TROCINE: Hey, Frank, how's it going.

FRANK COLLINS: Good. Recorded line, you
know.

LEIGH TROCINE: Yes, yes. Hey, listen, I
was wondering if you guys had emailed anything out for
this call. I was going to call into the conference bridge,
but somehow we're still not getting added to the
distribution.

FRANK COLLINS: We didn't email anything
out.

LEIGH TROCINE: Okay. So the last
assessment was last night, right?

FRANK COLLINS: Yes.

LEIGH TROCINE: Okay.

FRANK COLLINS: We're just coming on that

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1 conference now.

2 LEIGH TROCINE: Very good. Okay, I'll call
3 in. Thanks.

4 FRANK COLLINS: Right.

5 LEIGH TROCINE: Bye.

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(CONFERENCE CALL INITIATED)

RECORDING: Welcome to the conference calling center. At any time during this message, please enter your pass code, followed by the pound sign. Your pass code has been confirmed. If you need technical assistance during your call, press star 0. There are four parties in conference, including you.

RICH STARK: Hello, this is Rich Stark.

ALEX: Hi, Rich. Are you on watch at the NRC today?

RICH STARK: I am. I'm having great difficulty hearing you.

ALEX: Okay. Hang on. Okay, can you hear me any better?

RICH STARK: Yes, it's a little better. It's pretty noisy here. But I'm okay.

ALEX: Okay, good. We'll have a report from you in just a moment. Okay. So, like I said, we're looking at shifting into a little bit more long term bases.

Probably on the order of a couple of months doing analysis activities in support of the Secretary, the Science Team, as well as the NE leadership on this point. So that's kind of my overview.

I don't know if there's any questions on

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1 that. Any questions out there in (inaudible) town? Okay.
2 Thank you. Who is the -- Do we have an EOC watch stander.
3 Sal (phonetic), you said you were on the phone. Are
4 you the latest and greatest?

5 SAL: I'm the last one. And Trevor goes
6 on at 4 o'clock.

7 TREVOR: Yes, I'm here.

8 ALEX: Okay.

9 TREVOR: This is Trevor.

10 ALEX: Okay. Sal, could you give us a little
11 update on what's going on down in the EOC?

12 SAL: Well, overall it was a pretty quiet
13 night. I think the first of the Navy barges with the
14 fresh water showed up. And there was the correction
15 about the erroneous readings from the water in the turbine
16 building. And other than that, there really wasn't much
17 going on.

18 ALEX: Okay. Sounds real good. Rich, could
19 you give us what's going on in the NRC at this point?

20 RICH STARK: Yes, I can. There was a meeting
21 this morning with INPO, GE Hitachi, Naval Reactors, and
22 the NRC folks here, where they discussed the reactor
23 coolant system bypassing flow. And there's at least
24 two issues on this that I want to talk to you about.

25 They put together a draft white paper. And

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1 I sent that to you, Sal, and to Trevor, and to, I finally
2 got it to John Kelly. And it's going to be the topic
3 of the 4 o'clock meeting today. And it's the same call
4 in number as this morning. And I provided the call in
5 numbers in the emails to you guys as well.

6 The issue that, one of the issues that they're
7 posing there is, they want to know if the bypass in the
8 containment right now, in Unit 2 and Unit 3 have any
9 impact on the Severe Accident Management Guidelines.
10 They're called SAM-Gs.

11 And that's -- I don't know if you're familiar
12 with the SAM-Gs. But that's a set of severe accident
13 management guidelines that NRC developed years ago.
14 And they try to use it as a template to follow.

15 And it says if you have this condition, do
16 this. If you don't have this, do this. And it kind of
17 follows down a flow path of kind of neat things. One
18 of the --

19 So the first item is, they want to know if
20 the bypassing of the containment has any impact on the
21 SAM-Gs. And they'll be talking about that. The initial
22 feeling is that this bypass does not invalidate, or make
23 the SAM-Gs ineffective. But you'll hear more on that
24 in the 4 o'clock call, because everyone's supposed to
25 think about it.

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1 The second one is, they want to discuss the
2 potential leak path from the drywell and the reactor
3 coolant system into the turbine building in Unit 3.
4 And so they put together that white paper.

5 And I sent the white paper out to you guys
6 about an hour or so ago. It's a one pager. They tend
7 to think it's going to come from, that the leakage is
8 coming from the reactor side, because of the concentration
9 of iodine 131.

10 But they haven't discounted the possibility
11 that it might still be coming from the spent fuel pool.

12 So they'll be talking about both of them, both sources,
13 the spent fuel pool and the containment. But they tend
14 to think right now it's likely coming from the reactor
15 side. But you'll hear more about that then.

16 The third item that Naval Reactors will be
17 reporting on is, there was some professor, or someone
18 from University of California, who wrote a paper out
19 to the world saying, that the corrosion rates in the
20 drywell is because of the seawater.

21 It's going to be 8/10 of a centimeter per
22 day. And NRC has done a calculation, or an estimate
23 on that a few days ago. And they thought it was .001
24 centimeters per day. So Naval Reactors is going to run
25 that down to see which number is right. I don't even

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1 know who the person is. And --

2 MALE PARTICIPANT: Brad said that person
3 was (inaudible) Peterson (phonetic).

4 RICH STARK: Was it?

5 MALE PARTICIPANT: I believe it was.

6 RICH STARK: Okay. In any event, they got
7 a paper from someone that just showed up in the literature
8 somewhere. So you might be hearing something about that
9 as well too, if Naval Reactors can come up with an answer
10 by 4 o'clock today.

11 So those are the three things that I expect
12 to be discussed on the call today. And the 9 o'clock
13 call this morning is probably going to be pushed back
14 to 11 o'clock. Everyone wants to go back to that time
15 tomorrow.

16 I don't know what happened that made it at
17 9 o'clock instead of 11:00. NRC looks like they're
18 thinking about reducing staffing here by the end of the
19 week, because this is consuming a lot of their staff.

20 And the information flow is very small, I guess. That's
21 all I know.

22 ALEX: Good. Thank you. Sal, are you going
23 to be on that 4 o'clock call? Or do we have to do something
24 to get you on on that?

25 SAL: No. No. I'll be on the 4 o'clock call.

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1 And to add to what Rich said, there's really two issues.
2 The first issue is the recommendations on, the consensus
3 recommendations from industry, from NRC, from NR, and
4 to a certain extent from DoE on whether or not they should
5 flood the containment.

6 So that set of recommendations, they're
7 trying to figure out whether it's affected by whether
8 there's a leak or not. So that's one issue. The second
9 issue is the potential pathways for the contamination
10 that's showing up in the turbine building. So both of
11 those issues are of interest to Tom Miller. So if he
12 could possibly participate in the call, it might be useful
13 for him.

14 ALEX: Tom, do you have the number? Okay,
15 excellent. Good. Okay, great. Yes, sir.

16 (Inaudible background conversations)

17 ALEX: Did you hear that, Rich?

18 RICH STARK: No. I can't hear it.

19 ALEX: I'm sorry. Pat Schwab (phonetic)
20 was asking you to confirm that you had said something
21 about a release from the Number 1 spent fuel pool as
22 being a possible source.

23 RICH STARK: No. I don't know what spent
24 fuel pool. They're talking about the water in the turbine
25 building in Unit 3. I think it would be unlikely coming

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1 from Unit 1.

2 ALEX: Okay. Okay. All right. Rich, that
3 was great. Thank you very much for the update.

4 RICH STARK: Yes.

5 ALEX: Okay. We're going to go around the
6 group and just get a catch up on where things stand.
7 Matt?

8 MATT: (Inaudible).

9 ALEX: Okay. What about that plutonium that
10 keeps showing up in the ditches? Okay, good. Okay.
11 Great. Okay. We'll ask Trevor when he comes up. Rick?
12 Rick, do you have anything on electricity?

13 RICK: (Inaudible).

14 (Inaudible background conversations)

15 MALE PARTICIPANT: And Alex, I really can't
16 hear the Germantown people. Can you turn their volume
17 up so it will get through the phone?

18 MALE PARTICIPANT: Yes, I can't hear it
19 either.

20 RICH STARK: I can't hear anything either.

21 ALEX: Okay. Turning up the volume. No,
22 it's okay. It's just a question, we got the phone at
23 one end, your speaker's on the other. Our end's the
24 problem. Go ahead. No need to do that. I have the volume
25 button. Go ahead.

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1 (Inaudible background conversations)

2 ALEX: (Inaudible) and send that back to
3 you when they get it? Excellent. Okay, very good. Thank
4 you. Can any of you guys hear that any better?

5 RICH STARK: No.

6 MALE PARTICIPANT: I heard that a bit better.

7 But I think the noise is bleeding through on Rick Stark's
8 end. If he can put his on mute when he's not talking.

9 MALE PARTICIPANT: Yes, that's what I was
10 thinking.

11 RICH STARK: Let's see if I can figure out
12 where the heck the mute is on this damn thing.

13 MALE PARTICIPANT: Are you using your
14 Blackberry?

15 RICH STARK: No, I'm using the NRC. Here's
16 the mute.

17 ALEX: Okay. All right. Very good. Tom,
18 what's going on with the cooling?

19 TOM: Real quick, I think everybody knows
20 all the reactors, 1, 2, 3 are on pressure water cooling
21 now. And there's intermittent, I understand there's
22 still intermittent spray of the seawater cooling into
23 the spent fuel pools. Other than that, there's not much
24 going on.

25 ALEX: Okay. Thank you. Okay, Trevor.

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1 TREVOR: Okay, yes. Where to start. The
2 main thing is that the Japanese late last night, early
3 this morning, retracted their statement that the activity
4 in the water in the basements was a million times greater
5 than it should have been, and would have been had it
6 been in the reactor coolant system.

7 They have admitted now that they simply
8 measured and ascribed to iodine measurements from other
9 isotopes. The levels now predicted, or now measured,
10 I should say, in that water are much more in line with
11 what we knew yesterday and the day before.

12 And so there's really been no big gigantic
13 spike in activity, as you might have been led to believe
14 from that initial NHK report. We are actively evaluating
15 where the radioactive water is coming from.

16 We had a conference call at 1 o'clock on
17 that, which I unfortunately was not able to attend.
18 But I do have the report of that conference call. And
19 I'll be looking that over. Looks like we have another
20 conference call coming up on the same subject. So we
21 are trying to figure out what is the source of that water.

22 Workers are continuing to work. And really
23 nothing much has changed, except for they're much more
24 acutely aware of the contamination in the turbine
25 buildings. Other than that, I have nothing to report.

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1 MALE PARTICIPANT: When were they going to
2 have that next conference call? Today or tomorrow,
3 Trevor?

4 TREVOR: I think it's today. I think it's
5 at 4 o'clock. But I'll have to check. Let me just --

6 MALE PARTICIPANT: Okay. You'll be down
7 to EOC by then?

8 TREVOR: Yes, I will. I'll be down there
9 shortly. I'm going to go a little early, because I haven't
10 been before. And I need to familiarize myself.

11 MALE PARTICIPANT: Okay. Very good.
12 Anything else? Anything for Trevor? Pat?

13 PAT: Well, there's not a whole lot new.
14 The pools have water. And I'm still concerned about
15 Number 4, although there's now, I understand, two sources
16 of water that we can pump in to Number 2. That is from
17 the concrete pump.

18 And they're also pumping water in through
19 pipes. That's been recently reported. So it's all
20 seawater. But they have two sources of water in Number
21 4. But what worries me is this report about white smoke
22 coming out of Unit Number 4. We don't know what it is.

23 But it's (inaudible) the only heat source
24 in there is the pool. So that bothers me. I don't know
25 what it is. I wish we could fly a miniature UAD in there

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1 and take a sample of it. That's all, Alex.

2 ALEX: Okay. I have a question, Pat. And
3 maybe Rick can answer it too. Do they have any sort
4 of device on the skimmers to take the depths of the pools
5 or, you know?

6 I'm just wondering if they've got this thing
7 floating and going back and forth across the pool, if
8 it's, you know, using a sonar or something to get a depth.
9 I just don't know. Okay. All right. Bill.

10 BILL: I don't have anything else to add
11 that hasn't already been said.

12 ALEX: Okay. Okay, Andrea.

13 ANDREA: I have updates. So only about six
14 people can hear me. So NEA wants to call a ministerial
15 level conference on this subject in June. So they'll
16 be inviting Secretary Chu. And they want to talk about
17 lessons learned from the accident.

18 Strengthening nuclear safety, and then
19 strengthening the emergency response. So like I said,
20 they want to have that in June. It might be a little
21 early. But we might have to get ready for that.

22 ALEX: Okay.

23 ANDREA: And the E.U. is trying, wants to
24 develop stress test criteria for all the E.U. reactors.
25 So far the stress tests aren't mandatory, they're

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1 voluntary. But they would like to make sure the criteria
2 is very similar. And they might want to work with the
3 IAEA or the G-20 and get the U.S. involved.

4 ALEX: Okay.

5 ANDREA: But those are my only updates.

6 ALEX: Okay, great. Very good. Okay, does
7 anybody have any other questions? Or did we miss anything
8 along the way on the round robin? So what I'd like people
9 to do is, let's do at least one update to the status
10 report in DM.

11 I'm going to talk to John when he returns
12 tomorrow morning, to see if we need to continue to update
13 this. You know, clearly, we've gotten to a point where
14 we are, you know, there's just not a lot of activity
15 to be updated.

16 But once again, we're getting good updates
17 from the EOC sitreps, as well as the NRC sitreps. So
18 my suggestion and recommendation to John is that we suspend
19 the daily NERT report unless something comes up that
20 we need to do it. But please update one last time here,
21 so we can sort of put a stake in it.

22 The other thing that's going on, and I don't
23 know how this is going to work. But, you know, the
24 laboratories, you know, working with Secretary Chu and
25 the Science Council, they are posing a lot of analysis

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1 questions. And we're posing a lot of analysis questions
2 here.

3 Jeff Bender and Betsy are the ones who have
4 been honchoing that, in terms of collecting and
5 distributing those things. That's something else that
6 we'll be working on this week is, making sure that we
7 have a bit more visibility into what's going on.

8 And most importantly, understand how the
9 results are coming back, and catalogued. So that we
10 can make sure that, you know, if the same question is
11 asked a week later, we go, you know, okay, we've already
12 dealt with that back here. We don't need to have somebody
13 else launch off and do it again.

14 FEMALE PARTICIPANT: Sure. Steve Aoki
15 (inaudible).

16 ALEX: Good.

17 FEMALE PARTICIPANT: (Inaudible).

18 ALEX: Good.

19 FEMALE PARTICIPANT: (Inaudible).

20 ALEX: Very good. Good. Good. The last
21 thing for me is that, you know, it's turning out that
22 this war room, our little war room here is turning into
23 a bigger deal, and a bit more important.

24 You know, John had a whole list of things
25 he wanted to have installed. In fact, we had the Secretary

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1 come down. And I suspect the Secretary's going to show
2 up a few more times.

3 So one of the things we're doing is, I'm
4 working with Margaret Klein (phonetic), as well as Wendy
5 Funk (phonetic) to figure out how to get a proper space.

6 One of the issues we're going to have is
7 that the construction in this area is going to start
8 some time soon, probably by the end of April. So we're
9 going to work on finding a little bit more comfortable,
10 I won't say permanent, but longer term home, with
11 whiteboards, things like that. So that is something
12 we're working.

13 At some point, we'll have to make a decision
14 about the B432 conference room, to see what we need in
15 that as we go on forward. But that will be a discussion
16 that we have with John tomorrow. So unless anybody has
17 anything else, that's kind of it for me. Are there other
18 questions or comments somebody would like to make?

19 MALE PARTICIPANT: Alex, I got one thing.

20 And as we anticipated, the (inaudible) requests are
21 starting to roll in. And we've got one that I've passed
22 on to Trevor that's basically asking for any and all
23 information on radiological monitoring data or analysis
24 that, you know Friends of the Earth and Union for Concerned
25 Scientists wants.

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1 So I got a message back to Ginny Ole (phonetic),
2 and telling her that, you know, we've got hundreds of
3 emails, and things like that, that might have 20 people
4 on distribution. And asking us for some guidance on
5 how we should respond. But it's going to be a pain in
6 the butt.

7 ALEX: Yes. I had a feeling that was going
8 to happen. I'm so glad Trevor gets to be the first one
9 out of the chute to deal with it.

10 TREVOR: Oh, yes, me too.

11 ALEX: Yes, I'm sure you are.

12 MALE PARTICIPANT: Me too.

13 ALEX: Okay. Does anybody have anything
14 else?

15 MALE PARTICIPANT: When is the next meeting?

16 ALEX: Ah, good question. So let's plan
17 on a 10 o'clock meeting for tomorrow, you know, unless
18 you hear otherwise. And then, you know, one of the things
19 I'll be talking to John about is how often we want to
20 continue to have these meetings. But let's at least
21 plan on having one more tomorrow morning.

22 REBECCA (phonetic): Hey, Alex, I got a
23 question.

24 ALEX: Yes, ma'am.

25 REBECCA: Where is the best place for us

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1 to enter our priorities on these (inaudible)? If I
2 followed the conversation, John is (inaudible) about
3 how (inaudible) the priorities, and pick it up. Where
4 does that come in? Because it's not in the RST reports.

5 Is in the NRC sitreps? If so, I haven't seen the RST
6 sitreps in a couple of days.

7 MALE PARTICIPANT: Rebecca, I can answer
8 that one. On the NRC sitreps, next to each reactor status
9 they've been identifying priorities. And so the last
10 week or so, it's lined up with Unit 1 is priority 1,
11 Unit 2 is 2, Unit 3 is 3, et cetera.

12 Now I didn't understand Brian's, what he
13 was saying. Because they hadn't changed their priorities.

14 But I alerted the NitOps folks to watch for that, in
15 case they do.

16 REBECCA: Okay. Well, Sal, that's not the
17 way the priorities (inaudible) stood, the last time I
18 stood watch. And I --

19 MALE PARTICIPANT: Well it's changed. And
20 we changed it over the weekend to make it 1, 2, 3 and
21 4, corresponding to Reactors 1, 2, 3, 4, 5, and 6.

22 REBECCA: Okay. The issue is, I have
23 (inaudible) the NRC sitreps (inaudible).

24 MALE PARTICIPANT: Yes, they're providing
25 it twice a day. It comes out in the morning now at 0430.

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1 I forget the evening time.

2 MALE PARTICIPANT: (Inaudible).

3 MALE PARTICIPANT: Hey, Trevor, can you send
4 that out when you get down there?

5 TREVOR: Hello, this is Trevor. Can you
6 hear me?

7 MALE PARTICIPANT: Yes, Trevor --

8 MALE PARTICIPANT: Trevor, you may not be
9 able to hear Craig. He's asking for you to send out
10 the latest NRC sitrep when it gets in.

11 TREVOR: Yes. I'll send it to the DL list.

12 MALE PARTICIPANT: One thing though, this
13 morning I was monitoring John's email. And Rob Resluc
14 (phonetic) is on that distribution list. And I asked
15 him to, you know, provide the latest. And he said the
16 latest one was actually the Saturday one.

17 They haven't -- I don't believe they've
18 -- From his perspective they've updated a new one. But
19 maybe the USC watch stander will, you know, have more
20 information. But I --

21 MALE PARTICIPANT: Yes. There was one that
22 came out at 4:30 this morning.

23 MALE PARTICIPANT: Okay.

24 TREVOR: Okay. I'll check to see that that
25 gets forwarded to the NERT all list. And if it didn't

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1 I'll make sure it did. We usually get forwarded those
2 things on. But we'll find out. Okay. I'll take a look.

3 ALEX: All right. Anybody have anything
4 else? Very good. Going, going, gone. We'll see each
5 other at 10 o'clock tomorrow morning.

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(CONFERENCE CALL INITIATED)

SAL DALUP (phonetic): Sal Dalup.

RICH STARK: Hey, Sal, this is Rich Stark.

SAL DALUP: Hey, Rich, how are you?

RICH STARK: Okay. Hey, I got you on a distribution list now. I can't get John. John keeps getting rejected.

SAL DALUP: Oh, well I just -- John's name was on the email that I just sent them. The paper for the 4 o'clock call. Let me just check and see if it was the right address. Hang on one second.

RICH STARK: Okay.

SAL DALUP: You still there?

RICH STARK: Yes.

SAL DALUP: I see, it didn't say John E,
dot Kelly

RICH STARK: It's supposed to be John E dot
Kelly.

SAL DALUP: Yes.

RICH STARK: All right. I'll try that.

SAL DALUP: All right.

RICH STARK: Hey, by the way, they're cutting back on the staff here. And they're talking about closing this down in probably a week or so.

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1 SAL DALUP: Well I can only hope that the
2 situation allows for that.

3 RICH STARK: Yes. Anyway, I don't know what
4 they're going to do. But that's what they're talking
5 about.

6 SAL DALUP: All right. Thanks for keeping
7 me posted.

8 RICH STARK: All right. Thanks. Right.

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NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
RST Coordinator Audio Files

Docket Number: N/A

Location: N/A

Date: March 29, 2011

Work Order No.: NRC-4222

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UNITED STATES OF AMERICA
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JAPAN'S FUKUSHIMA DAIICHI
RST COORDINATOR AUDIO FILES

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TUESDAY,
MARCH 29, 2011

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2 above-referenced phone line on the above-referenced
3 date.)
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(CONFERENCE CALL INITIATED)

GREG: Reactor Safety Team, this is Greg speaking.

HEADQUARTERS OPERATIONS OFFICER: I've got Mr. Blamey for you. Please hold.

GREG: Okay. Thanks. This is Greg on the Reactor Safety Team bridge.

ALAN BLAMEY: Greg, this is Alan Blamey calling. Last evening, before we left here, I requested that somebody take a look at the reactor building volume, and the total amount of hydrogen generated.

GREG: Okay.

ALAN BLAMEY: I know this morning when I got up it was in my email.

GREG: Okay.

ALAN BLAMEY: But I cannot find it now. And my Blackberry and my NRC mail account is no longer in sync. I have no idea what's going on.

GREG: Okay.

ALAN BLAMEY: Could you resend that?

GREG: Sure, sure. And just for context, you're looking at reactor building volume, and total hydrogen generation? Is that right?

ALAN BLAMEY: Yes. And I think it came out,

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1 like a couple hours after requested. So it probably
2 came out about ten hours ago.

3 GREG: About ten hours ago. Okay.

4 ALAN BLAMEY: Yes.

5 GREG: And it should have been sent from
6 RST01, something like that?

7 ALAN BLAMEY: I think so.

8 GREG: Okay.

9 ALAN BLAMEY: Yes. Because I'm going back
10 here. I'm just kind of perplexed. Because something
11 happened. I'm out of sync. I'm not really receiving
12 any emails right now on my laptop.

13 GREG: And would this have been information
14 that we came up with?

15 ALAN BLAMEY: Yes.

16 GREG: That forwarded on to you? Okay.

17 ALAN BLAMEY: Yes.

18 GREG: So this is NRC generated information.

19 ALAN BLAMEY: Yes. I had requested the total
20 volume of the reactor building --

21 GREG: Okay.

22 ALAN BLAMEY: -- on the refuel floor and
23 the floor below it.

24 GREG: Okay.

25 ALAN BLAMEY: And the total amount of

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1 hydrogen that could be generated if all the zirconium
2 under one, the oxidation reaction.

3 GREG: Okay, sure.

4 ALAN BLAMEY: Okay, great.

5 GREG: Let me check on that for you, Alan.

6 And as soon as I find something, I'll shoot that off
7 to you. Or, do you want me to give you a call?

8 ALAN BLAMEY: If you can shoot that off to
9 me --

10 GREG: Sure.

11 ALAN BLAMEY: -- as well as Ralph Way, as
12 well as him.

13 GREG: As well as Ralph Way. Okay. I can
14 do that for you.

15 ALAN BLAMEY: Okay, thank you.

16 GREG: All right. You're welcome, Alan.
17 Bye, bye.

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(CONFERENCE CALL INITIATED)

GREG: This is the Reactor Safety Team, this is Greg speaking.

HEADQUARTERS OPERATIONS OFFICER: Yes, this is Vince, it's the Hoo. Hey, we're just checking on all the paperwork. And we came across a Jack Geissner fax --

GREG: Okay.

HEADQUARTERS OPERATIONS OFFICER: -- that came in at 1300. And I don't know if you folks already saw it or not.

GREG: Jack Geissner. Do you know what it would relate to?

HEADQUARTERS OPERATIONS OFFICER: It was RST01.

GREG: Yes.

HEADQUARTERS OPERATIONS OFFICER: There's a bunch of, it's a mixture of Japanese and English. It's looking like it's plotting various parameters of the reactor, like (inaudible) in Japanese.

GREG: Okay. I think we've seen it. But I'll come over there just to grab it, and take a look if it's anything different.

HEADQUARTERS OPERATIONS OFFICER: Yes. It

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1 may be something you have. But I don't know.

2 GREG: Okay.

3 HEADQUARTERS OPERATIONS OFFICER: Okay.

4 GREG: Will do. Bye, bye.

5 HEADQUARTERS OPERATIONS OFFICER: Bye.

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