

Group EO

(Records Withheld
In Part)

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 11, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/1

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 FRIDAY,
8 MARCH 11th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (No audio was recorded on the
2 above-referenced phone line on the above-referenced
3 date.)
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 12, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/2

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 SATURDAY,

8 MARCH 12th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (No audio was recorded on the
2 above-referenced phone line on the above-referenced
3 date.)
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 13, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

E0/3

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 SUNDAY,

8 MARCH 13th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

(No audio was recorded on the
above-referenced phone line on the above-referenced
date.)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

✓

Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 14, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/4

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

+ + + + +

JAPAN'S FUKUSHIMA DAIICHI
PMT STATE INTERFACE AUDIO FILES

+ + + + +

MONDAY,
MARCH 14th, 2011

+ + + + +

(No audio was recorded on the
above-referenced phone line on the above-referenced
date.)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 15, 2011

Work Order No.: NRC-4222

Pages 1-51

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/5

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 TUESDAY,

8 MARCH 15, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%CS53%_03865094

(CONFERENCE CALL INITIATED)

AUTOMATED ANNOUNCEMENT: Welcome. You have reached the audio conferencing system. After the tone, enter your conference pass code followed by the pound key. Thank you.

MALE PARTICIPANT: Rich (phonetic), unless you've heard something different than that, that's the only thing that I know of that we're sending in.

RICH: No. I mean, there are some ongoing policy discussions, Julie, about how we would refine to a specific request for medical countermeasures from Japan, but nothing per se about dosimeters or dosimetry.

And in fact, I don't believe we have dosimeters, I mean, in terms of external dosimeters, in the Strategic National Stockpile, although I can't say that with absolute certainty.

CINDY JONES: Okay. Hi, this is Cindy Jones with the NRC just joining you.

JULIE BENTZ: Cindy, great, wonderful to have you here.

CINDY JONES: Hi, Julie. Yes.

JULIE BENTZ: Yes. So just so that we're clear, all that this phone is about that Dennis (phonetic) was concerned about was making sure there was the dosimetry

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 capability for our own, the U.S. folks that are -- and
2 I've kind of defined it as the responder, the folks who
3 are going into the problem set.

4 So you know, right now we've got people flying
5 over the areas in search and rescue, you know. Those
6 are the kind of things we need to be certain that we're
7 capturing --

8 CINDY JONES: Right.

9 JULIE BENTZ: -- what the doses are.

10 CINDY JONES: It's my understanding that
11 the DOE RAP Team, the 32-person team has dosimeters with
12 them. They have also KI as do the people that we sent
13 over, the total of eight that are over there have dosimeters
14 and KI.

15 The discussion this morning with Naval
16 Reactors and crew talked about the request that came
17 out of this morning's briefing with the White House and
18 the Chairman regarding, I think it was the Ronald Reagan
19 had indicated that Admiral, that they wanted to make
20 sure that they had dosimetry for the people that were
21 employed on the ship. They just have some dosimeters.
22 We got a report back that they have 50 dosimeters on
23 ship with 300 on the way, and it was only an hour away
24 this morning. So they should have that.

25 But the Admiral was concerned that, he wanted

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 to monitor all the people on the ship, not just a few.

2 And right now they're having to estimate what individual
3 doses are. So you know, we provided information for
4 CDC for the KI. One of the largest producers or
5 manufacturers and suppliers of TLD's is
6 Landauer in the country here. They can get, you know,
7 emergency supply shipments of 100s and 1,000s when you
8 need it.

9 JULIE BENTZ: Okay. So before we drill down
10 on the actual, what we need to do, I just wanted to kind
11 of go around the horn and figure out who's in-country
12 that we need to be thinking about. So NRC, Cindy, you
13 said that there were eight. I think you actually have
14 more than that.

15 CINDY JONES: Yes.

16 JULIE BENTZ: But you've got eight that were
17 sent forward. I think you have two there, already?

18 CINDY JONES: Right.

19 JULIE BENTZ: And one on the way. And all
20 of them -- everybody who's sending it has the dosimetry
21 --

22 CINDY JONES: Right, they have dosimetry
23 and KI. That's correct.

24 JULIE BENTZ: Okay. Great. DOE? David?

25 DAVID BOWMAN: Okay, so we've got 35

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 personnel. One of those people is working with the DART
2 team at the Embassy. The other 34 are responders and
3 they all have dosimetry with them.

4 JULIE BENTZ: All right, good. Let's see,
5 how about over to -- USAID, on your DART team, anybody
6 other than the RAP or NRC folks, do any of those have
7 dosimeters or do you deem it necessary for them to?

8 FEMALE PARTICIPANT: I'm going to turn you
9 over to our Urban Search and Rescue Team colleague, Jerome
10 (phonetic), who can tell us what the USAR teams have.

11 JEROME: Good afternoon. We have 10
12 Canberras, and then the standard PPE level (indiscernible)
13 that (indiscernible) teams, both California and Fairfax
14 are carrying.

15 CINDY JONES: Those are survey instruments,
16 correct? Those are not TLDs.

17 JULIE BENTZ: No, yes. Do they have any
18 kind of like thermoluminescent dosimeter or any kind
19 of badge that captures the dose if they're in a radiation
20 field, that you're aware of?

21 RICH: No, the USARs, I believe, are active
22 monitors, and our safety and security officer has a
23 surveying instrument, an ADM-300 survey instrument.
24 And then with regard -- I think he's got some personal
25 pen dosimeters in the cache as well that can be read

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 and they show an accumulation, or an accumulated exposure
2 amount on those.

3 JULIE BENTZ: Okay, so they have some pen
4 dosimeters?

5 RICH: Yes.

6 JULIE BENTZ: Okay.

7 RICH: And this evening we're going to
8 re-validate who's using what.

9 JULIE BENTZ: And one of the things I would
10 also like to get off of this phone conversation is that,
11 you know, if you've got the pen dosimeters, it doesn't
12 necessarily mean that the USAR teams know how to use
13 them. But we have specialists out there that perhaps
14 they can link up and get some fast training on it if
15 needed. Okay.

16 RICH: I'm not aware of any passive dosimetry
17 use on our side.

18 JULIE BENTZ: Your pen dosimeter I think
19 would be considered that.

20 CINDY JONES: I think it would be important,
21 Julie, and for the rest of the folks, that whenever someone
22 is either in an area that they have at least a person
23 that has a recordable thermoluminescent dosimeter, or
24 if they have a direct reading dosimeter to have the names
25 of the individuals and what that recording is, because

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 the question will come back later, I was in an area and
2 I got exposed and there is no record of dose.

3 JULIE BENTZ: Right. And that is, for
4 everyone on the phone, that is what we want to avoid.

5 CINDY JONES: Exactly.

6 JULIE BENTZ: No record of dose. Okay, so
7 Cindy, we have a direct reading dosimeter, and then we
8 have the thermoluminescent dosimeter.

9 CINDY JONES: Right. And of the two you
10 want to have a TLD, thermoluminescent dosimeter because
11 that can stay on just like a badge, and it will record
12 the radiation dose wherever you go. And it's usually
13 exchanged out every month.

14 So you can get a monthly dose, or if you
15 have a team going out one person could have that. Or
16 if you're short-handed on that there could be one in
17 an area posted in an office or in a room that would be
18 characteristic of all the people that are in that room
19 would receive about that same dose. But it should be
20 representative of the area where the people are working
21 and interacting.

22 JULIE BENTZ: Great. Now before we go to
23 the next point, the one person I'm missing is DoD. Has
24 DoD joined? Joint Staff?

25 LEE SMITH (phonetic): This is Lee Smith

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 in the Naval Reactors. I can provide some --

2 JULIE BENTZ: Ah, perfect. I'm sorry, Lee.

3 LEE SMITH: No, no, that's okay. I won't
4 necessarily present myself to represent DoD, but I can
5 share what information I have.

6 JULIE BENTZ: Please do.

7 LEE SMITH: For perspective, there's about
8 130,000 people, DoD folks including active duty, civilians
9 and dependents in the region. So when you're talking
10 about providing dosimetry for personnel over there, do
11 you mean all responders that you anticipate will approach
12 within a certain distance from the reactor plant?

13 JULIE BENTZ: So by responder you raise a
14 good point. Is a person who lives next to the reactor,
15 is he or she a responder? And that's how I want to make
16 sure I understand how everyone is characterizing who
17 the responder is. Because there's also 160,000 American
18 citizens over there, and we can't badge all of them.
19 So it's more an idea, and this is how we do it here at
20 the states is, you know, those people who we are asking
21 to go into an area that is deemed risky that we put a
22 dosimeter on them.

23 CINDY JONES: That's correct.

24 JULIE BENTZ: If they are caught in the plume,
25 there are other ways to understand their dose so long

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 as, you know, they know when they're in and whether they
2 evacuate or shelter in place or do what is necessary.

3 So it's not that we are going to put a dosimeter on
4 everybody. That would just be a monstrosity. But we
5 want to understand that are we at least putting dosimetry
6 on all those who are going into a radioactive area to
7 do their mission.

8 So I'm not even certain -- well, and let's
9 face it. The White House is not going to tell the
10 departments and agencies how to do their own dosimetry
11 because you already have the protocols and legal
12 authorities in place to do it.

13 We just want to understand how you plan to
14 and, you know, whether or not as an interagency, if there
15 are certain, you know, ideas people are having that they've
16 never tried before, like putting a badge on every person
17 on the Reagan, if that's a necessary requirement rather
18 than perhaps, you know, for every deck on the ship or
19 depending on the missions that they go out on, what's
20 the more useful idea for that. Again not stepping into
21 what DoD says that they should be doing.

22 So Lee, does that kind of answer your
23 question?

24 LEE SMITH: Yes. And I can provide some
25 perspective on what we are currently doing.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JULIE BENTZ: Okay. Please do.

2 LEE SMITH: And what we have in the region.

3 There's approximately ten ships in the region, including
4 two aircraft carriers. Aircraft carriers being nuclear
5 powered obviously have the most inherent capabilities.

6 We have a little over 2,000 TLDs available and several
7 thousand SRPDs, or self-reading pocket dosimeters, and
8 about 150 electronic pocket dosimeters.

9 JULIE BENTZ: How many?

10 LEE SMITH: 1-5-0.

11 JULIE BENTZ: Okay.

12 LEE SMITH: All of our nuclear-trained
13 personnel wear TLDs all the time, anyway, so you're running
14 somewhere around 500 to 550 personnel that are
15 automatically being monitored. Any personnel that are
16 flying or performing flight ops within 100 miles of the
17 reactor plants are being monitored with TLDs and
18 electronic pocket dosimeters.

19 The smaller ships in the region supplying
20 (indiscernible) all have self-reading pocket dosimeters.

21 About half of them have TLDs, as well. We're pushing
22 TLDs to the rest of them. I expect by the time -- by
23 the end of the day all of the ships should have TLDs,
24 enough for at least the flight crews that are flying
25 within a hundred miles.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 We don't believe the ships that are sitting
2 outside of the plume areas need to have TLDs. All of
3 the personnel on board, we believe we will have enough
4 of a representative dose record of those people that
5 remain on board to be able to (indiscernible, possibly
6 "time-dose those that") have not left the ship. We have
7 a number of folks on the ground, both the shipyard and
8 Navy personnel, TLDs and (indiscernible) are being
9 provided for them as well. As far as
10 additional monitoring capability that is either in the
11 region or is being sent to the region, we have
12 (indiscernible) uranium detector able to perform isotopic
13 analysis that's currently being utilized. We have a
14 Spectral 1000 which will also perform isotopic analysis
15 that's being shipped to the Ronald Reagan. We also have
16 two Canberra Accuscan whole-body monitors that are being
17 shipped over there. And I don't have an ETA on their
18 arrival time.

19 As far as dose management or exposure
20 management for our people that are performing flight
21 ops, our current game plan is to limit those people to
22 what we call a control level of 300 millirems, starting
23 out with per day will be reassessed on a per day basis.

24 Then (indiscernible, possibly officers) may
25 reset based on the operation's need, up to a thousand

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 millirems, and if they need to exceed a thousand millirems
2 that will only be performed after a consultation with
3 our emergency responders on the ground and (indiscernible)
4 at what we call the NAC, which is our emergency control
5 center there, which they will discuss with us what their
6 plans are if they think they need to go greater than
7 1,000.

8 Our guidance also includes if they need to
9 go the (indiscernible, possibly ten rem) for equipment,
10 saving vital equipment for higher than that for
11 life-saving measures, that's allowed further discretion.

12 And then the, I believe, the discussion, we're running
13 parallel conference calls here at 1400. I have someone
14 else that's on the other conference call that should
15 be sharing similar information regarding the dosimetry
16 availability of different reading.

17 JULIE BENTZ: Right. No that sounds perfect.

18 Thank you.

19 STU GREEN (phonetic): Yes, this is Stu Green
20 at DHS with just has one quick question, 300 millirems,
21 what was the time frame for that?

22 LEE SMITH: Right now, in a given day to
23 be reassessed following that day.

24 STU GREEN: Okay. So that's per day.

25 JULIE BENTZ: And it's important for that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 number to know that that would be occupational dose.
2 That is not a dose that we would think would be acceptable
3 for the public at this point?

4 LEE SMITH: Yes, copy.

5 JULIE BENTZ: Okay.

6 ALEXANDER KOSYAK: Good afternoon. This
7 is Alexander Kosyak from USAID, Office of Foreign Disaster
8 Systems. There was a comment made about having protocols
9 in place for dealing with radiation exposure.
10 Unfortunately, we don't have anything like that on hand.

11 Is there anyone who could send out a very
12 quick, clean-and-dirty and short policies and procedures
13 of how we should handle the 150 persons that we have
14 in Japan already, and see the best way to protect them?

15 JULIE BENTZ: And by 150, are you talking
16 about the DART members?

17 ALEXANDER KOSYAK: That's correct.

18 MALE PARTICIPANT: DART including Urban
19 Search and Rescue.

20 CINDY JONES: Can I ask that the Urban Search
21 and Rescue normally, at least in this country, they would
22 be equipped with TLDs or radiation monitors. Can you
23 verify that?

24 ALEXANDER KOSYAK: Yes, I think earlier one
25 of our colleagues had mentioned that they don't have

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 those with them.

2 TEDMCGUIRE (phonetic): Julie, TedMcGuire.

3 JULIE BENTZ: Okay, Mac (phonetic).

4 TED MCGUIRE: The FEMA task forces, the guys
5 that are over there from Cal-2 and Fairfax, they carry
6 standard 50 Canberra UltraRadiacs with them.

7 JULIE BENTZ: But a Radiac's not a dosimeter.

8 TED MCGUIRE: A Radiac is a radiation
9 detector, yes.

10 JULIE BENTZ: Right, but you need --

11 TED MCGUIRE: But you're just talking about
12 (indiscernible) type?

13 JULIE BENTZ: No, there's a dosimeter that
14 -- actually, Cindy, why don't you explain what dosimeter
15 is?

16 CINDY JONES: Okay. A dosimeter is a very
17 small thing, smaller than the end of an eraser on your
18 pencil, like about two centimeters square, very thin,
19 that captures any, and records on a thermoluminescent
20 device, looks like a small piece of glass, radiation
21 dosimetry for that person that's wearing it.

22 The entire TLD is only about one inch long
23 by a half-an-inch thick. It clips on just like a microphone
24 lapel. And that's what we're looking to have these people
25 that are in areas where they are doing rescue work-related

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 activities for emergency response should be wearing
2 thermoluminescent dosimeters, or TLDs. Those are
3 personnel dosimeters.

4 TED MCGUIRE: Yes, I mean, the badge type

5 --

6 CINDY JONES: Yes.

7 TED MCGUIRE: -- (indiscernible) tech wears
8 a TLD.

9 CINDY JONES: Yes.

10 JULIE BENTZ: Right. Exactly.

11 TED MCGUIRE: Okay. I'm with you. But the
12 USAR task force, FEMA's task forces, the only thing they
13 have is the UltraRadiacs. They don't have the badge
14 type.

15 JULIE BENTZ: So the UltraRadiacs, and
16 correct me if I'm wrong, I'm assuming that's a detector
17 that if a person is looking at it, it will tell them
18 when to turn around, right? But it's not keeping a --

19 TED MCGUIRE: It will alert them to
20 radioactivity, but it also retains a life dose in the
21 detector itself.

22 CINDY JONES: Well, it remains to be seen
23 how long that information will be kept by that detector.

24 It will respond just like a GM detector, and most of
25 these are either GM or sodium iodide. They'll tell you

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 how much radiation is in the area, but they can't hold
2 information forever in that detector, even if they have
3 a memory chip unless it's sending signals back somewhere.

4 So I think the point that Julie was making
5 earlier regarding making sure that people who are in
6 these situations for emergency response have TLDs, I
7 go back to the question that USAID had. They have 150
8 people. How many of those people are involved with
9 emergency search and rescue? And if they are, they should
10 be badged and get dosimetry from nearby people.

11 JULIE BENTZ: So here's the next question
12 I think that we as a community need to think through
13 and that is, I'm going to assume that the folks on the
14 search and rescue teams aren't part of a dosimetry program.

15 There's not any records managers for them on their dose,
16 like we have in the military or NRC or DOE.

17 And the question is, if that's a correct
18 assumption, how do we kind of manage them into something
19 like that? Thoughts?

20 MALE PARTICIPANT: I think we want to --
21 we'll confer with the safety and security officer out
22 there, and share with them this evening. And again,
23 re-validate what we have in use and have a dialogue with
24 them to evaluate whether we want to establish a TLD program.

25 JULIE BENTZ: So if you look at, down into

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 some of the questions I sent out in the emails, you know,
2 there's this real tight management of the dose. And
3 I think what these active monitors give you are the
4 turn-back rates. But then there's also the additional
5 requirement that there's a long-term management where
6 we follow through with these folks over the long term
7 on, you know, how much dose has accumulated per different
8 activity, right?

9 So that the DoD can in fact say, yes you
10 got 300 millirem today. You know, you got 300 millirem
11 yesterday. At 600 millirems, you know, we're going to
12 take you off the line and hold you in abeyance for a
13 week. Or, you know, if there's a management stuff at
14 real time that you can do with this information. And
15 the question for the search and rescue team, is there
16 anybody there that does that piece?

17 MALE PARTICIPANT: Not that I'm aware of.

18 MALE PARTICIPANT: Not that I know of.

19 JULIE BENTZ: Okay. That's not the Safety
20 and Security Officer.

21 MALE PARTICIPANT: No.

22 CINDY JONES: Is there an Incident Commander
23 or a person in charge of this team? And is this team
24 by any chance within 30 kilometers of the nuclear power
25 plants? Or are these teams primarily in an area outside

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that?

2 JULIE BENTZ: They'll be outside it, Cindy.

3 CINDY JONES: Okay.

4 JULIE BENTZ: They're part of the DART.

5 But what we could do is, you know, we've got, you know,
6 the DART is where the DOE RAP team is going to be located,
7 as is the NRC folks.

8 CINDY JONES: Yes.

9 JULIE BENTZ: So it's not that we don't have
10 experts who can assist, as well as we could find some
11 dosimeters and add them to the group. But how is that
12 for kind of -- that seems to me kind of as a Band-aid
13 to a process. And I just want to figure out from the
14 operator's perspective, you know, some ideas and thoughts.

15 C.J.: The other thing I would like to add
16 in here -- this is C.J. --

17 JULIE BENTZ: Yes.

18 C.J.: -- is if anybody on the call has the
19 legal frame of reference that we would need to determine,
20 not only what is prudent from a radiological perspective,
21 but what is prudent from a legal perspective for the
22 government. I don't know that we have anybody on the
23 call that has that expertise. But if there is someone,
24 please speak up.

25 CINDY JONES: This is Cindy Jones from the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 NRC. I'm not a legal person, but I will tell you that
2 there are requirements under OSHA for personnel doing
3 work that involves exposure to radiation and for being
4 monitoring. If their work and work duties require them
5 to be in a radiation area, they need to be monitored.

6 They can be monitored with one person having
7 a dose that is reasonable or that is being recorded for,
8 say, two or three people if only one dosimeter's available.

9 But if their job functions are to go out and to do search
10 and rescue into a radiation area, OSHA would require
11 them to have dosimetry.

12 C.J.: Yes, I agree, but the question is
13 whether we're in a case where they're going into a radiation
14 area or not.

15 CINDY JONES: Well that would be --

16 C.J.: Yes.

17 JULIE BENTZ: So for the search and rescue,
18 I think it's, you know, we've already seen that some
19 of the folks that have come back from some of these --
20 well, C.J., answer me this rather than me make the
21 assumption it was.

22 Was the helicopter that was contaminated,
23 was that coming back from a search and rescue mission?

24 Or was that -- I think it was, wasn't it?

25 C.J.: The aircraft they're talking about

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 was a COD, which actually landed on Japan and then came
2 back. But they flew through. But some of the helos that
3 have --

4 JULIE BENTZ: Right.

5 C.J.: -- been on search and rescue missions
6 have been contaminated, --

7 JULIE BENTZ: Right.

8 C.J.: -- and that seems to be a continuing
9 trend.

10 JULIE BENTZ: Right.

11 C.J.: So the Navy piece, I think we sort
12 of have that licked. I'm worried about the folks on
13 the ground.

14 JULIE BENTZ: But that's what I'm saying.
15 And so the search and rescue, I think we can probably
16 assume that they could be asked to be going into -- well,
17 if it's up by the reactors, obviously, if it's down in
18 Okinawa that's going to be different, but up in that
19 area we might as well assume it.

20 And the legal piece, it's interesting. I
21 was talking with our legal and the question I had was
22 on the, you know, haves and have-nots, you know, those
23 who are responders versus the non-responders. And
24 there's a pretty easy, clear divide legally on that.

25 Like Cindy said, if we're asking them to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 go into, you know, a place that could have a radiation
2 field, we're obligated. So then the question is, it's
3 not necessary for us to badge everybody. If it's a team
4 of six and I put a badge on one, I've taken care of that.

5 CINDY JONES: Exactly.

6 JULIE BENTZ: But if we have search and rescue
7 folks going out and there's no one on there that has
8 a badge, that's probably what we should look into.

9 C.J.: All right, I agree. Is there any
10 agency that feels like they have the capacity both in
11 the TLD realm, but also with the footprint on the ground
12 to maybe take the lead on getting the AID workers that
13 are not badged and don't have anybody in each little
14 group with a TLD that could sort of take that role?

15 MALE PARTICIPANT: Hey, Julie, I apologize
16 for interrupting. Richard and I both have to take off.
17 Our team has a briefing with the Secretary. We'll get
18 back with you after this call.

19 JULIE BENTZ: Fantastic. Thanks.

20 MALE PARTICIPANT: Thanks, Julie.

21 CHRIS LEONARDO: This is Chris Leonardo
22 again from USAID from the Response Management Team.
23 We just brought in Hal Cohen, who is our general counsel
24 here.

25 But another point I wanted to raise from

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 our point of view for our teams again, we have 157 personnel
2 currently on the ground. And when you add in the planned
3 responders who are going to be part of the DART team
4 from Department of Energy, from HHS and NRC, we're looking
5 at a total of 209 people. From folks who are under the
6 USAID offices, we have a variety of different hiring
7 mechanisms for folks, so we're not just talking about
8 U.S. Government direct hires. We have various
9 contractors. Our USAR, Urban Search and Rescue folks
10 are under a cooperative agreement.

11 And then we also have personal services
12 contractors. So we also want to make sure that any
13 distinctions, if there are any distinctions between those
14 different hiring mechanisms.

15 JULIE BENTZ: So my understanding of the
16 way we work here in America, if we ask anyone to go into
17 a radiation field their dose rate needs to be monitored.

18 CINDY JONES: That's correct.

19 JULIE BENTZ: That's for anybody. If that's
20 part of their working duties, it doesn't matter the hiring
21 mechanism.

22 CINDY JONES: That's correct.

23 DON DAIGLER: This is Don Daigler. I think
24 that's correct, and I'm sorry for getting on the call
25 a little late. I had a problem --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JULIE BENTZ: That's all right.

2 DON DAIGLER: -- back at the -- but you're
3 bringing in some great issues that we hadn't even thought
4 about. Once we're done here, I'm going to go downstairs
5 and talk to our USAR leadership to see if there has been
6 any thought given to monitoring the does of these folks
7 that's over there, and let's think about how we can get
8 them the appropriate coverage.

9 JOHN HOLLAND: This is John Holland, again,
10 with the DART. I think some key distinctions need to
11 be made that I believe our DART team and the USAR reps
12 are utilizing their survey instruments and to determine
13 whether our side is clear to operate in or not. And
14 any kind of exposure levels that would deem them to
15 be occupationally exposed, then they wouldn't go into
16 to that area. Neither would the DART team.

17 JULIE BENTZ: Right.

18 JOHN HOLLAND: So I mean if we start
19 categorizing the entire team as having occupational
20 exposure, then I would agree that the program would be
21 warranted. And I think the occupational rate or exposure
22 limit is one-and-a-quarter rems per quarter on a
23 whole-body dose.

24 JULIE BENTZ: So here's the unique part about
25 what we're up against here, is that you could put your

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 search and rescue team in a place close by Fukushima
2 or Tokai or any of these other places that have these
3 reactors, and they will have no reading on their
4 measurements. So it's safe, right?

5 But then the reactors are quite fragile,
6 so if one goes up while they're out searching, you've
7 put them kind of in -- it's kind of an unexpected dose.

8 But the reason we're up there is it is a earthquake/tsunami
9 response, but you're in an environment. So that's just
10 my personal opinion. That's not White House opinion.

11 I don't know how -- maybe Cindy? What are your thoughts
12 about that?

13 CINDY JONES: Well, I think that search and
14 rescue teams should have a dosimeter with them if they
15 are, say, within 50 kilometers of the plant. And I think
16 it's for the reasons that Julie said, in case there is
17 an accident or a burp of radioactive material or of steam
18 that could be slightly radioactive at this point, that's
19 what we know. But they should not be part of a team
20 that doesn't have any TLDs with them. It's very easy.

21 It's very quick. They're overnight FedExed from Landauer
22 or another manufacturer of TLDs, and they can be easily
23 put in the hands of these people at AID, or wherever
24 the DART members are.

25 So I think it's very easy to do. It's not

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 very expensive. It's quick, and it's a very good thing
2 to have at hand.

3 JULIE BENTZ: Folks at USAID, you guys have
4 the opportunity also to request from the interagency
5 for some support, don't you? I mean, isn't it, if you
6 guys go out, OFDA goes out and they need to pull in people
7 to take over, can you also request equipment from other
8 agencies?

9 MALE PARTICIPANT: We have the ability and
10 resources to establish a program. Again if we have the
11 down log and it's determined from the DART and new dialogue
12 with the RMT, I think we can move forward with it.

13 JULIE BENTZ: Right. And perhaps we should
14 be thinking about that. But for the time being, I'm
15 wondering whether or not, you know, again like I said,
16 you're going to have -- out of the 209 members on your
17 DART I know 46 of them are going to be very highly trained
18 nuclear folks who understand TLDs and dose records, and
19 can assist you with that. And whether or not we, you
20 know, throw some TLDs that are interoperable or
21 compatible with what those guys have, it might make it
22 a little bit easier. So that's only kind of a thinking
23 outside the box.

24 The other thing I want to go back to, Cindy's
25 comment about, you know, if you're going within 50

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 kilometers of a plant. Obviously if there is any kind
2 of incident and that changes per Japanese, you know,
3 discussion or what you're hearing across from the, you
4 know, from this side of the ocean, you know, where that
5 changes, it might become larger, it might become more
6 definitive, obviously, you want to take that into
7 consideration.

8 So it's not a absolute, oh, if you're going
9 within 50 kilometers of those plants. It's based on,
10 you know, where the exclusion zones or where the zones
11 are being figured out at the moment.

12 CINDY JONES: Right. And right now it's
13 20 kilometers, or 12 miles for evacuation. And it's
14 30 kilometers for sheltering. I just used 50 as a --
15 if you're getting that close, and you have a team with
16 you and none of those people in that team have a TLD,
17 you need to get one so that you can have a record of
18 dose for that team.

19 C.J.: The other option, and I don't know,
20 I would be interested in what the DART folks have to
21 say, is if we could, sort of self-select into areas for
22 teams that don't have TLDs, self-select out of those
23 areas where we would think a TLD is warranted. What
24 do you think of that approach, where we manage it until
25 such time that we get TLDs to them?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JULIE BENTZ: DART? Do you think that's
2 doable, or does that constrict you in any way?

3 CHRIS LEONARDO: You're talking about making
4 sure that our teams are not operating within a 50 kilometer
5 radius of a reactor?

6 C.J.: Of the reactors of concern, yes.

7 CHRIS LEONARDO: The reactors of concern?
8 Our team is not operating within 50 kilometers of a
9 reactor of concern. But they are within that radius
10 of Onagawa, which is not a reactor of concern. So in
11 terms of where the team is assigned to work --

12 CINDY JONES: Just to let you know, Onagawa
13 was a reactor of concern, what, two days ago?

14 C.J.: It could be already and us not know
15 it.

16 CINDY JONES: I'm so sorry. I didn't mean
17 to interrupt you, Chris.

18 CHRIS LEONARDO: That's okay. I'm sorry.
19 I guess my point being that the team is assigned a location
20 by the Minister of Foreign Affairs in Japan. So we've
21 been assigned a location. So I honestly don't know what
22 the feasibility of changing location. We have
23 established a joint base of operations, which is led
24 by the Chinese, and then as well as the Brits. So it's
25 a Chinese search and rescue team, a British one from

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (indiscernible), as well as our two teams. And I don't
2 really know if we could change that at this point. We've
3 got all our equipment and, you know, been assigned that
4 piece of the grid. So it wouldn't be easy.

5 JULIE BENTZ: Chris, I would think that this
6 not be a bad time for us to look at -- Dave Bowman and
7 Cindy, tell me if I'm wrong. This is kind of an easy
8 problem to solve, right? It's 150 members, probably
9 not all of them needing TLDs, just the, you know, there's
10 a portion of that, that can be taken under the wing of
11 either the NRC or DOE teams heading in that direction.

12 CINDY JONES: Right.

13 JULIE BENTZ: Is that a useful way to think
14 about this problem right now?

15 CINDY JONES: Yes. It's just a function
16 of if that NRC team or a member of the DART team needs
17 to be in the same area as whatever the DART function
18 is for that day.

19 JULIE BENTZ: Right, but also I was thinking
20 that if DART was able to get some more TLDs and slap
21 it on their USAR folks, you know, can DOE and NRC give
22 them a quick training --

23 CINDY JONES: Absolutely.

24 JULIE BENTZ: -- a brief, and then be
25 responsible to read their TLDs.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 CINDY JONES: Absolutely. And what does,
2 just so everyone is aware, you don't read the TLDs there.
3 They get sent back to the supplier, and they can be
4 read overnight or in a 48-hour period. They actually
5 get mailed back.

6 JULIE BENTZ: So then, Cindy, with that idea,
7 you've got these TLDs that give you kind of a delayed
8 understanding of dose. And you've got people, you know
9 -- how do they do their, you know, real time dose assessment?

10 CINDY JONES: Well, they'll have someone
11 that has a meter, either a Radiac or a GM or a Celumidide
12 (phonetic) that will be with them that will measure the
13 ambient radiation air effluence, and they'll be able
14 to know if they're at low radiation area or what the
15 radiation -- or no radiation area, for example. And
16 then if the radiation area does increase, those people
17 will have dosimeters. But they'll certainly be able
18 to know if it's, you know, so many microSieverts per
19 hour, or whatever it is, so that they can monitor how
20 much their daily intake or exposure rate, excuse me,
21 should be for that period of time.

22 JULIE BENTZ: Okay.

23 DAVE BOWMAN: Hey, Julie, this is Dave
24 Bowman.

25 JULIE BENTZ: Yes.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 DAVE BOWMAN: Okay, so what I heard was that
2 NRC said they could support this. I mean, I'm willing
3 to say, and I'm not the decision-maker, but our people
4 have a big job to do over there, and we didn't resource
5 having to provide training on dosimetry counts.

6 I mean, if that's the priority obviously,
7 you know, you guys in the White House will make the decisions.

8 But not knowing how far away the USAR teams are, this
9 could become a big strain on our DOE team. So I mean,
10 if NRC's willing to do that here, we certainly would
11 appreciate that from the Department of Energy perspective.

12 JULIE BENTZ: So the only thing I can tell
13 you about the White House perspective is that, the one
14 thing that almost got Dennis (phonetic) out of his chair
15 was when PACOM commander said that they were concerned
16 about dosimetry.

17 So I think this is a really big deal. I
18 don't think anybody here wants to put any of our responders
19 at risk. So I would say it probably is a big deal, and
20 I know you're not resourced for the mission. I know
21 NRC's not resourced for the mission. But you
22 know, common sense, it seems like this is pretty low-level.

23 I mean, you're dealing with really high-speed, low-drag
24 folks to begin with that you just kind of have to say,
25 here, clip this on your lapel.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 You know, here's the -- you know, Don Daigler,
2 you could probably write out the procedures in about
3 two seconds that says, you know, when you get back, if
4 your Radiac meter gives you any kind of information you
5 may have been exposed, hand this to point-of-contact
6 x, and then we just have to make sure it gets back for
7 being read while some more TLDs are handed forward.

8 I don't think this is a high amount of work.
9 However, I do get your point that everybody's going
10 over there with an incredible task in front of them.

11 MALE PARTICIPANT: Julie, on a separate
12 point, are there any teams or personnel being staged
13 right now to go in that we should just account for now
14 so that we don't get them to tail-chase on any more people?

15 JULIE BENTZ: Yes. So we've got the CCMRF
16 that is being racked and stacked to go forward. So you
17 know, there's the 20-person planning team that they're
18 pulling up, maybe being there and, what, trying to see
19 three, 24, 36 hours? Is that what I heard --

20 MALE PARTICIPANT: Right.

21 JULIE BENTZ: -- this morning? And then
22 there are backup of an additional 500-person team that,
23 I don't know if they're going to be back-benched somewhere
24 in the event of something happening. But I think that
25 we've at least got 20 coming fairly quickly.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 CINDY JONES: And those people, Julie, will
2 have dosimetry?

3 JULIE BENTZ: Yes.

4 CINDY JONES: Is it possible when they leave
5 or when they go they can bring dosimetry with them, extra
6 dosimetry?

7 JULIE BENTZ: Well, we can certainly give
8 them, given the mission. I think what would be nice,
9 and maybe Don Daigler you can do that, or is just make
10 a mission request, right? Can you guys do that?

11 MALE PARTICIPANT: Don went down to talk
12 to the USAR folks, Julie, but I can pass that along.

13 JULIE BENTZ: Right, because the USAR folks
14 kind of belong out of your pocket, right?

15 MALE PARTICIPANT: Well, they're working
16 under USAID right now, but yes, they're part of the National
17 Urban Search and Rescue crew.

18 JULIE BENTZ: Right. And it might be that
19 FEMA just builds out a program, and pushes it forward
20 and throws dosimeters in their direction. It's just
21 really, you know, unless you get a manager going with
22 it, we're going to have to ask somebody over there to
23 kind of take on the management stuff. And I know within
24 the military there's always some program managers
25 responsible for all of the TLDs, et cetera, to take care

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 and manage it with NRC.

2 CINDY JONES: Right.

3 MAJOR MATTHEWS: This is Major Matthews at
4 Joint Staff.

5 JULIE BENTZ: Hey, Jimmy.

6 MAJOR MATTHEWS: The military, I don't know,
7 the military dosimeters IM-93 or whichever ones are
8 handed, I'm not sure if they meet the same requirements
9 for civilians, because unlike a civilian nuclear worker
10 that you get registered in the system, you get read every
11 month and all, the military does not register each soldier
12 in the same way --

13 JULIE BENTZ: Right.

14 MAJOR MATTHEWS: -- unless they're in a
15 radiation type job normally. It's just that the
16 dosimeters (indiscernible) to the people that are read
17 at the, really at the company level, and I'm not sure
18 if that's going to cut it for a civilian dosimetry as
19 far as your OSHA standards fall.

20 JULIE BENTZ: Correct. So we're not
21 actually asking for the dosimeters from DoD, but more
22 along just a person who understands the requirements
23 for, you know, the management of the stuff and just sending
24 it back. Like I said, it looks like DOE
25 is going to be doing it while they're in Japan. NRC

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 is going to be doing it while they're in Japan. Probably
2 FEMA can get the dosimeters and they, you know, kind
3 of a process, and push it forward. We just have to figure
4 out where the, you know, kind of where the gap is. Is
5 it going to be in somebody there understanding what to
6 do with the dosimeters.

7 CHRIS LEONARDO: This is Chris Leonardo from
8 USAID, again.

9 JULIE BENTZ: Yes.

10 CHRIS LEONARDO: I think because the USAR
11 teams are deployed under out cooperative agreement that
12 it would fall to -- we would be responsible for developing
13 this, not FEMA because they're not under a FEMA assignment
14 right now.

15 JULIE BENTZ: Fair enough. Fair enough.
16 You're more than welcome to develop the procedures for
17 this deployment. I was just thinking, as Don said before
18 he shot downstairs, that FEMA should develop this across
19 the USAR program so that, you know, when people are deployed
20 like this, there's already a process in place like you
21 get with DOE and NRC and DoD.

22 HAL COHEN: Yes, this is Hal Cohen with USAID
23 as well. Perhaps what we could do is as we described,
24 our DART will consist of, in addition to our own personnel,
25 the USAR teams, the 32, 39 member DOE team as well as

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 the 11 NRC folks.

2 Why don't we reach back to the operational
3 side to understand exactly what they have and what they'll
4 be bringing and what they understand would be required
5 beyond what they have? And based on that, we'll also
6 this evening be speaking with our DART in the field that
7 include the Safety and Security officer who is from FOH
8 to get input, as well. And with that, I think we'll
9 have a much better understanding of what, if anything,
10 beyond that is required at least with respect to the
11 folks we have deployed.

12 JULIE BENTZ: Brilliant. So really what
13 I think I would be very, very interested in having come
14 out of this teleconference is two things. One, Hal,
15 is exactly as you said. The USAID's program, or protocols
16 or whatever you call it for how you're going to manage
17 the dose information from the responders that are coming
18 in. I think that's the first one. The second
19 one is the DoD plan, and you guys already have that in
20 stone. So you just have to lead me to the right DoD
21 directive, or whatever it is that shows the process that
22 you guys use. I'm not so much concerned about DoD, only
23 because I came out of that community.

24 C.J.: Well, there is -- Julie, we have
25 the plan to get the Navy folks that are getting on the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 aircraft in and out, but I was hoping that now that we
2 have Major Matthews, maybe we could get back to those
3 questions that we started with --

4 JULIE BENTZ: Okay.

5 C.J.: -- for the other folks outside of
6 the Navy guys.

7 JULIE BENTZ: Right. So --

8 CINDY JONES: Julie?

9 JULIE BENTZ: -- the question is that we've
10 identified that we've got, you know, 209 DART. We've
11 identified the Navy response. C.J., is it non-Navy,
12 or is it non-military?

13 C.J.: It's non-Navy, right?

14 JULIE BENTZ: Okay.

15 C.J.: The other folks that are there that
16 might be used for search and rescue, if DoD sees a
17 requirement or has plan to put dosimetry on the other
18 folks.

19 JULIE BENTZ: Got it. So I do know that
20 those that are coming forward from the U.S. will have
21 dosimetry. So the CCMRF has dosimetry, but if they call
22 other military from around the region of the, like the
23 U.S. Forces Japan --

24 C.J.: That's right.

25 JULIE BENTZ: -- whether they have dosimetry.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 C.J.: Or if it's required. I mean, DoD
2 might make the determination that based on where they
3 are and where they're going to use them --

4 JULIE BENTZ: Right.

5 C.J.: -- it's not required. But Major
6 Matthews, you have anything on that?

7 MAJOR MATTHEWS: No decision's been made.
8 All deployable Army Forces, or ground forces, should
9 have dosimetry in their CMPCO unless there's some, like,
10 agency type that pulled out, you should have some sort
11 of dosimetry or a way to get to get to it.

12 CINDY JONES: If I could just add -- this
13 the Cindy from the NRC, again --

14 AUTOMATED ANNOUNCEMENT: Your conference
15 has been extended an additional 25 minutes.

16 JULIE BENTZ: Hello? Go ahead.

17 CINDY JONES: That's okay. KI should be
18 also made available or at least have on hand in case
19 it's needed. That was raised this morning on the
20 conference call with federal agencies, in addition to
21 TLDs in case it is needed to be used by people who are
22 deployed in that area.

23 JULIE BENTZ: Okay. So again --

24 LEE SMITH: Julie?

25 JULIE BENTZ: Go ahead.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LEE SMITH: This is Lee Smith. If I could
2 --
3 JULIE BENTZ: Yes.
4 LEE SMITH: -- sit in for a second.
5 JULIE BENTZ: Yes.
6 LEE SMITH: Cindy, can you provide
7 perspective on how you would expect these field teams
8 to know when they should take their KI?
9 CINDY JONES: Well, as is happening now,
10 we have protective measures out to 20 and 30 kilometers,
11 20 to evacuate and 30 to shelter. If the radiation doses
12 were to get measurably higher, there would be also an
13 indication that children should be taking KI. I think
14 the Japanese government has indicated that children are
15 receiving KI right now. As far as adults, it would
16 be a much higher dose. But there is guidelines for that,
17 as well. And that would be 5 and 25. It's 5 rem for
18 evacuation, and 25 rem doses for thyroid for
19 administration of iodide.
20 JULIE BENTZ: And --
21 CINDY JONES: So it's quite high, but it's
22 just a precaution to have it available, if need be.
23 JULIE BENTZ: Cindy, is everybody in Japan
24 taking KI, or just those within a certain distance of
25 the reactors?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 CINDY JONES: Just those within a certain
2 distance, and right now it's only for children. But
3 the people that have come out from DOE, and I know that
4 all the people from NRC, in addition to TLDs have a supply
5 of potassium iodide for themselves.

6 LEE SMITH: So do you have any perspective
7 on how, for example, the DART teams would understand
8 whether or not they are encountering a boom that would
9 require them to take KI? In other words, how are they
10 going to assess the thresholds for taking KI
11 (indiscernible)?

12 CINDY JONES: Well, this goes back to Julie's
13 original comment about having a protocol in place for
14 managing the dose information for individuals. If you
15 see that people are receiving in excess of a certain
16 level, for example, we heard earlier that the Navy control
17 level was 300 millirem for a day, and then beyond that
18 they would evaluate it.

19 That incident commander or health physicist
20 in charge of those personnel dosimeter would provide
21 that information to the individuals, and it would be
22 certainly announced widespread as an emergency news-radio
23 media, so forth, that it's advisable to take KI because
24 the doses are in excess of x rem, for example.

25 So that's why it's very important to have

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 a person that's in charge of the dosimetry and of the
2 potential health effects met when that person would give
3 the team the KI.

4 LEE SMITH: Understand. And for complete
5 protection, the folks that we have that will be approaching
6 within 100 miles will also be taking KI.

7 CINDY JONES: They do not need to take KI
8 at this point, not even with -- it's important. Nobody's
9 required to take KI right now if you're an adult.

10 LEE SMITH: Okay. The guidance that we're
11 giving to our responders that are approaching within
12 100 miles.

13 CINDY JONES: Yes. There's not a
14 requirement to do that.

15 LEE SMITH: We are issuing guidance for our
16 responders --

17 CINDY JONES: Oh, I'm sorry, you're telling
18 me that's what you're doing?

19 LEE SMITH: Yes. Yes.

20 JULIE BENTZ: And who is this speaking right
21 now?

22 LEE SMITH: This is Lee Smith at Naval
23 Reactors.

24 JULIE: Okay. So Naval Reactors. Within
25 a hundred miles you have take KI for all your Navy folks.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LEE SMITH: Right, and that goes
2 hand-in-hand with exposure monitoring for the people
3 being maintained at less than 300 millirems. So the
4 TLDs and the Radiacs employed in the region, only monitors
5 can report the whole-body gamma field that they're in,
6 that doesn't give you a complete picture as to the
7 radioiodine exposure that they're going to receive.

8 JULIE BENTZ: Right.

9 LEE SMITH: So an important component is
10 taking KI in order to prevent the thyroid dose from becoming
11 a limiting dose for these people. And since they don't
12 have, you know -- it's impossible to deploy monitors
13 on the flight crews with them that could assess that
14 we're issuing KI before --

15 JULIE BENTZ: Sure.

16 LEE SMITH: -- they're going within 100
17 miles.

18 JULIE BENTZ: And am I right in saying KI's
19 is a one-time dose? I mean, you just take it once, right?

20 CINDY JONES: Yes.

21 LEE SMITH: One pill per day. One pill per
22 day.

23 JULIE BENTZ: Okay. So the last thing I
24 think is useful for use just to think about before, you
25 know, we start drilling down on the protocols, is the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 whole issue of bioassay. Cindy, is there any assets
2 there that could do a bioassay if needed?

3 For those of you who don't know what a bioassay
4 is, it's after you've been exposed to a, you know, to
5 a significant dose there is a -- they take a urine sample
6 for analysis for a dose rate, or a whole-body dose. And
7 I don't -- please speak up loud and vociferously if you
8 don't believe we need to talk about this in this situation.

9 Cindy or Dave?

10 CINDY JONES: Well, I think you need to be
11 prepared for that. We're not at that stage yet, but
12 there should be an ability to that.

13 (Crosstalk)

14 JULIE BENTZ: Okay, okay. I've got a lot
15 of people talking on this phone, right now. Maybe I
16 can help us out if those folks who are not -- maybe use,
17 what is it? Is it Pound 6 that puts you on mute or I
18 think it's Pound 6. Star 6 will get you back.

19 But Dave Bowman, what is it that you wanted to
20 say?

21 DAVE BOWMAN: I was asking how you define
22 bioassay. Let me ask a more specific question. Is it
23 just collecting the samples, or are you asking if someone
24 could do an analysis as well?

25 JULIE BENTZ: No. Just collect the samples

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 and send it back.

2 DAVE BOWMAN: Okay.

3 JULIE BENTZ: And FEMA, Don, were you trying
4 to say something?

5 DON DAIGLER: No, I was just going to say
6 that the DOE's out there and they might have that capacity.
7 Dave's the right guy to answer that question.

8 JULIE BENTZ: Okay.

9 CINDY JONES: And the other thing to check
10 with, Julie, is CDC is, in this country, is the agency
11 required for population monitoring after an event. So
12 they may have a stockpile or a facility that can send
13 a lot samples to an area, a lot of specimen containers
14 to be collected and then sent back. Dr. Charles Miller
15 at CDC is that point of contact.

16 JULIE BENTZ: Right, and I had Nicky
17 (phonetic) Lurie tell me that, you know, there is a bioassay
18 piece to this. And unfortunately, HHS had to jump off
19 the phone, but we'll pick that back up with them and
20 see just, again, have it in the back of our minds.
21 Hopefully we will not have to use that but, you know,
22 better for us to have the discussion today than in the
23 after impact where everybody's yelling at us where are
24 bioassays capability is.

25 WARREN STERN: Hi, Julie. It's Warren.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 There are actually two things. There's cytogenetic
2 biodosimetry and then there's a bioassay urine as you're
3 suggesting, to find out if someone's been contaminated.

4 And I think we actually ought to start thinking about
5 both, and what are the networks that exist and capabilities
6 that exist for, again, both cytogenetic biodosimetry,
7 which is, I believe, a blood sample and measures damage
8 to chromosomes directly and indirectly dosed. And then
9 there's the bioassay, which is, again, if you consume
10 somehow radioactive materials, what is your body's
11 examination like?

12 CINDY JONES: Cytogenetic is typically used
13 for doses above 10 rad. That would be 10,000 millirad,
14 which we're not there yet. Bioassay is done for routine
15 determination of inhalation or ingestion event.

16 JULIE BENTZ: Okay. So what would be useful
17 is for some group of folks, or maybe one or two individuals
18 to start with some protocols that look at, you know,
19 who gets dosimetry? Who should be using dosimetry? I
20 think we've already defined that, you know, any responder
21 that goes into the area of concern should have some,
22 there should be some method that we can record the dose.

23 It doesn't have to be on the person, but if he's in
24 a group or she's in a group, we can, you know, grab one
25 and average it out. But I think that's probably what

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 I'm hearing folks say.

2 We should look at when is it that you put
3 in for potassium iodide, you know, thoughts about
4 bioassays and then thoughts about a dosimetry manager,
5 just for this specific. And really, the person that
6 probably needs to start this is going to be, Chris, it's
7 going to be you guys with your USAID hat to figure out
8 how you guys want to do that.

9 I will tell you, we've got some absolute
10 brains on this phone call who can assist with that, Dave
11 Bowman, Cindy Jones, Don Daigler. I'm going to ask the
12 DoD folks to do something similar for them to send to
13 me, just so that I can clarify to the upper management
14 here how the U.S. Government is taking care of our folks
15 that we're pushing out there.

16 And it doesn't have to be anything elaborate,
17 you know, a couple bullet points for us. But then a
18 fleshing it out so that your operations over there have
19 a little bit better understanding of the requirements.
20 Does that make sense?

21 CINDY JONES: Yes.

22 CHRIS LEONARDO: Yes. This is Chris. It
23 makes sense, and it's something we've been thinking about.
24 We have some, obviously we have protocols in place,
25 already for the USAR teams. But again, we're going to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 get together with our, we have colleagues here from NRC,
2 DOE and HHS who are working with us on the Response
3 Management Team, and we'll put something together.

4 JULIE BENTZ: That would be great. And would
5 it possible, you guys, to just send me something, even
6 if it's really draft and just a 60 percent solution sometime
7 before 6:00 p.m.? Is that doable?

8 CINDY JONES: Yes, we can send you something,
9 Julie.

10 JULIE BENTZ: Okay.

11 JASON KOZAL: Hey, Cindy Jones, this is Jason
12 Kozal. I take it you're available to consult on this?

13 CINDY JONES: I'm sorry? Can you repeat
14 that?

15 JASON KOZAL: I say, this is Jason Kozal.
16 I'm down here with the USAID folks.

17 CINDY JONES: Yes.

18 JASON KOZAL: You're available to consult
19 on this?

20 CINDY JONES: Yes, I'm going to have the
21 PMT put up a couple bullets on that.

22 JASON KOZAL: Very good. Thank you.

23 CINDY JONES: And we'll send it to Julie.

24 C.J.: And will the Joint Staff be sending
25 in the consolidated input for -- the Naval Reactors talk

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 quite a bit on the phone call. Are you guys sending
2 in everything for both the air assets off the ships in
3 the Navy and the forces that are already deployed there,
4 that are stationed there, I should say?

5 JULIE BENTZ: Jimmy, can you --

6 MAJOR MATTHEWS: We'll get in touch with
7 you on that in detail to get you guys what you're after.

8 C.J.: Okay.

9 JULIE BENTZ: That would be great. So Jimmy,
10 I'll just expect something from JCS, Joint Staff, to
11 come my way? You'll pull it all together?

12 MAJOR MATTHEWS: Roger.

13 JULIE BENTZ: Awesome, awesome, awesome.

14 CINDY JONES: Hey, Julie. You can help us
15 out on a little different thing. I have to leave in
16 about five minutes. We're still urgently needing those
17 Qs and As that were mentioned this morning. We have
18 a lot of calls in from the public on who's notifying
19 people on the West Coast about doses. Do you know when
20 those can be shaken loose and given to our Public Affairs
21 and us?

22 JULIE BENTZ: We're shaking them loose even
23 as we speak. I've been seeing a lot of that stuff going
24 across my email back-and-forth. So also, Cindy, you
25 guys have developed quite a few Qs and As yourselves

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that I'm hoping that you put on your website. Have you?

2 CINDY JONES: I will check that.

3 JULIE BENTZ: Check on that, because you
4 guys probably gave us, you know, if not the bulk you
5 gave us quite a bit of what we're passing around.

6 CINDY JONES: Right.

7 JULIE BENTZ: Yes. We're being pushed up
8 from the above, as well, so we're hoping to get that
9 out yesterday.

10 CINDY JONES: Yes.

11 JULIE BENTZ: Good. All right, 6:00 p.m.
12 -- did I say 6:00 p.m. tonight?

13 CINDY JONES: To you, yes.

14 JULIE BENTZ: Okay, to me. If anybody
15 doesn't know how to get ahold of folks on this phone
16 call, first off I don't think I have all of your email
17 addresses. I do have your Ops Centers if that's helpful,
18 but otherwise just send me a quick email, jbentz,
19 j-b-e-n-t-z at nss dot eop dot gov. If you want to send
20 me a quick email just saying, hey, I was on the phone
21 call, and I offered to do such-and-so, but I have no
22 way to get in contact with Chris Leonardo. Unless, Chris,
23 you want to give us your phone number.

24 CHRIS LEONARDO: Phone number is 20 -- it's
25 the Response Management Team number, 202-712-0039.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 CINDY JONES: Okay, I got to run, Julie.

2 JULIE BENTZ: Okay. Thanks Cindy. You'll
3 know how to get ahold of Chris.

4 CINDY JONES: Thank you. Yes.

5 JULIE BENTZ: Okay, bye. Bye.
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 16, 2011

Work Order No.: NRC-4222

Pages 1-3

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/6

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 WEDNESDAY,

8 MARCH 16th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%E!GS%L03865094

(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Your call is being answered by audit, (b)(6) is not available. To leave a message wait for the tone. Record at the tone.

CYNTHIA JONES: Hi, (b)(6) this is Cindy Jones at NRC Operations Center. It's 12:15 on Wednesday the 16th, (b)(5)

(b)(5)

Please call me back at (b)(6) Thank you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%E!JEM_03865094

(CONFERENCE CALL INITIATED)

OPERATOR: NRC, this is a recorded line,
may I help you?

CYNTHIA JONES: Yes, Hi, this is Cynthia
Jones in the Op Center in PMT. Can you contact (b)(5)

(b)(5)

OPERATOR: (b)(6)

CYNTHIA JONES: Yes, (b)(6)

OPERATOR: (b)(6)

CYNTHIA JONES: Hold on, maybe she's calling
me back right now. Let me see. Cindy Jones.

(b)(6) Yes, I'm here.

CYNTHIA JONES: Yes, I got a hold of (b)(6)
thank you.

OPERATOR: You're welcome.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 17, 2011

Work Order No.: NRC-4222

Pages 1-18

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/7

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 THURSDAY,

8 MARCH 17th, 2011

9 + + + + +
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%EZCMH603865094

(CONFERENCE CALL INITIATED)

OPERATOR: NRC Operations Center,
Protective Measures Team.

TERRY KRAUS: Yes, hi, this is Terry Kraus
the Consequence Management Team. We would like to talk
with Lou Brandon if possible?

OPERATOR: Sure, just give me one second
to find him.

TERRY KRAUS: Okay, great.

OPERATOR: Hey, Lou, you busy? Sorry I
didn't catch his name, but.

LOU BRANDON: Hello, this is Lou Brandon.

TERRY KRAUS: Hey, Lou, it's Terry Krauss.

LOU BRANDON: Good, I want your phone number.

TERRY KRAUS: Okay, area code 505.

LOU BRANDON: Are you coming through really
loud and clear, I've got to turn your phone down here.
Okay, Terry, area code 505.

TERRY KRAUS: 844 --

LOU BRANDON: I need a chair, hold on. 844

--

TERRY KRAUS: 6954.

LOU BRANDON: 844, 6954?

TERRY KRAUS: Copy.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LOU BRANDON: I don't seem to have access
2 to CMHT folder in CMweb nor RAM so we were just sending
3 email.

4 TERRY KRAUS: Okay, so you're going to have
5 to get that from NARAC or, well someone from our cell
6 can get you that I believe. I'm sorry, I can't do it
7 myself.

8 LOU BRANDON: Okay, not a problem.

9 TERRY KRAUS: But if you go back to the bridge
10 line and ask, tell them you need access, they should
11 be able to get you access.

12 LOU BRANDON: If I just send an email to
13 CM?

14 TERRY KRAUS: I think you're better off
15 getting on the bridge line --

16 LOU BRANDON: Okay.

17 TERRY KRAUS: -- and talking to someone
18 directly to make sure your response is, or your request
19 is acknowledged.

20 LOU BRANDON: Okay, I'll do that.

21 TERRY KRAUS: Why I called, you know, I'm
22 sitting here with Brain Haunz (phonetic) and Shawn Burns,
23 another Sandia employee, whose done a lot of work with
24 source terms from reactors and apparently they have talked
25 to the Jennifer Ewell --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LOU BRANDON: Oh, yes, she's our research
2 here at NRC.

3 TERRY KRAUS: Yes. Have you talked to
4 Jennifer regarding release fractions, etcetera?

5 LOU BRANDON: No, but they woke me up tonight
6 an hour before I came in asking about stuff and so I
7 knew Jennifer was doing something, but I haven't talked
8 to her.

9 TERRY KRAUS: Okay, I'm showing you --

10 SHAWN BURNS: Yes, Lou, I'm the manager of
11 the risk and reliability analysis here at San Diego.
12 We do a lot of work with the office of research.

13 And over the last several years we've been
14 doing source term analysis for releases, like this type
15 of long term station blackout as well as spent fuel pools.

16 LOU BRANDON: Okay, what was your name again?

17 SHAWN BURNS: Shawn Burns.

18 LOU BRANDON: Ron Burns?

19 SHAWN BURNS: Shawn.

20 LOU BRANDON: Shawn, oh --

21 SHAWN BURNS: S-H-A-W-N --

22 LOU BRANDON: Got it.

23 SHAWN BURNS: B-U-R-N-S. And the
24 department is Randy Gantz (phonetic) Department. That's
25 another name you want to know.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LOU BRANDON: Yes, I just heard Randy talk
2 at the conference last week.

3 SHAWN BURNS: Yes, yes. So we, Jennifer
4 Ewell, the deputy director or office director for research,
5 asked us to do some consequence calculations using the
6 data that we've been developing for NRC.

7 LOU BRANDON: Oh, okay, good.

8 SHAWN BURNS: So we've been doing that and
9 we're going to be passing that onto Jennifer, hopefully
10 tomorrow we're working on it tonight and we should have
11 something together for her tomorrow. So what I'll do
12 is I'll talk to Susan Pickering, my boss who's been talking
13 to Jennifer, and tell her that we had this conversation
14 so hopefully we can get you that source term information,
15 that information will get into your hands in a faster
16 way that way.

17 LOU BRANDON: Okay, so I'm not quite clear
18 where we're going here. The source term information
19 you're going to provide is going to be characteristic of
20 one unit or all units or --

21 SHAWN BURNS: Well it will be characteristic
22 of one unit. We have that data already as part of the
23 state of the art reactor consequence analysis project
24 that is in Jennifer's organization.

25 LOU BRANDON: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 SHAWN BURNS: But what we're working on right
2 now is a spent nuclear fuel pool fire.

3 LOU BRANDON: Oh, okay.

4 SHAWN BURNS: Okay. So we've done that
5 calculation recently as well. The caveat is it's with
6 high density fuel, high density racks in the spent fuel
7 pool.

8 LOU BRANDON: Okay. Is that what is the
9 case or we're not sure in these units?

10 SHAWN BURNS: Based on the conversation we
11 had with GE this afternoon, it sounds like these are
12 low density racks.

13 LOU BRANDON: Okay.

14 SHAWN BURNS: Which makes the fuel pool fire
15 less likely, but given the uncertainties we're dealing
16 with I wouldn't say it's unlike, it's impossible.

17 LOU BRANDON: Right. And is this source
18 term characterized as a release rate? If it's on fire
19 it will burn and release at some kind of a constant rate?

20 SHAWN BURNS: Yes. We're doing this fuel
21 combustion and atmospheric transport calculations. And
22 what we're trying to get is dose rate as a function of
23 time and distance from the unit.

24 LOU BRANDON: Oh, okay. So if we had some
25 kind of result like that we could tailor our RASCAL run

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 to --

2 SHAWN BURNS: Yes.

3 LOU BRANDON: -- kind of synchronize with
4 it to get a better projection?

5 SHAWN BURNS: Yes, some of these source terms
6 might be more credible then other source terms that might
7 be available right now because it does represent the
8 most recent research that's gone into releases like this.

9 LOU BRANDON: Okay, this is fantastic so,
10 you're going to provide this to Jennifer Ewell sometime
11 --

12 SHAWN BURNS: Yes, we're working with
13 Jennifer. So what I will do is I'll tell Susan, my boss,
14 to talk to Jennifer about our conversation this evening
15 and hopefully that will drive it from Jennifer's side.
16 But you might want to reach out to Jennifer from you
17 side as well.

18 LOU BRANDON: Okay, to the, we're the
19 protective measures team so I think probably her plan
20 is to share it with us, but that's --

21 SHAWN BURNS: I would assume so, yes.

22 LOU BRANDON: Okay.

23 TERRY KRAUS: Have you been having much
24 contact with them? I know you said that they woke you
25 up, so sounds like there's definite, you know, the ball

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 is rolling so to speak.

2 LOU BRANDON: Yes, I'm not sure. Since I
3 have to, she's probably working on the executive team
4 which is right next door to us. And I'm not sure if she's
5 on the last shift or this shift, but I can get the roster
6 and figure out when she's playing, when she's going to
7 be here.

8 SHAWN BURNS: Okay.

9 LOU BRANDON: And we'll follow up on that.

10 SHAWN BURNS: Okay, great. And I'll circle,
11 well I'll have some circle back with you tomorrow then.

12 LOU BRANDON: I'll be on shift until tomorrow
13 morning at 7:00 and then again tomorrow night from 11:00
14 till 7:00.

15 SHAWN BURNS: Okay, so tomorrow night then.

16 LOU BRANDON: Okay. Sounds great, I
17 appreciate your assistance there guys.

18 TERRY KRAUS: Okay, Lou, thanks a lot.

19 LOU BRANDON: All right, talk to you later.

20 SHAWN BURNS: See you later.

21 LOU BRANDON: Okay, bye.

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%FIVG\$603865094

(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Good day, this is Roy Parker, you have reached my voice mailbox. You may hit the pound key at any time to skip the cell phone and fax numbers and leave a message.

If you have an emergency, please leave a voicemail message and then call my cell phone, (b)(6)

The cell phone voicemail and this voicemail are the same.

If you wish to send a fax, please dial (b)(6) Otherwise leave your name, area code, telephone number and if you wish, a message. Have a good day.

NIMA ASHKEBOUSSI: Hi, Roy, this is Nima Ashkeboussi calling from the Nuclear Regulatory Commission Protective Measures Team. I'm just calling to update you that there have been no changes since you left, FUKU, Bruce Watson on any flights that FedEx needs to do across the Pacific, there's noticeable information we have that indicate any dangers.

If you have any questions just call us at Headquarters Operation Center, 301-816-5100. Have a good evening, bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%F-V-4603865094

(CONFERENCE CALL INITIATED)

OPERATOR: NRC Operations Center.

LEE NICKEL: Hi, this is Lee Nickel from the Naval Reactors Emergency Control Center. I'm trying to reach Mr. Jeff Steele who is there as our liaison for reactors.

OPERATOR: Jeff Steele, you know, I think I saw him. Can you hold on the line just one second?

LEE NICKEL: Yes.

OPERATOR: Okay, hold on. Right there. Yes, thank you.

JEFF STEELE: Hello, Jeff Steele.

LEE NICKEL: Hi, Jeff, Lee Nickel here.

JEFF STEELE: Um-huh.

LEE NICKEL: I'm going to transfer you to Elmer Naples.

JEFF STEELE: Okay, where are you?

LEE NICKEL: I'm in the Naval Reactor ECC.

JEFF STEELE: Okay.

LEE NICKEL: Hold on one second.

ELMER NAPLES: You there Jeff?

JEFF STEELE: Yes.

ELMER NAPLES: Okay. Hey, this morning, do you know we're going to have CNO in our ECC for the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 morning update?

2 JEFF STEELE: I did not know that but, I

3 --

4 ELMER NAPLES: Okay, just so you know.

5 JEFF STEELE: Okay.

6 ELMER NAPLES: Last night when we did our
7 update when was the first time we had somebody over in
8 the NRC EOC.

9 JEFF STEELE: Um-huh.

10 ELMER NAPLES: And Burrows went through a
11 kind of summary of the Fukushima plant status and then
12 asked Robert to comment on what was going on over at
13 the NRC. And Tom did a good job of summarizing, hey,
14 the NRC's view of the priorities for the Fukushima site
15 are, one, two, three.

16 One was the Number 4 spent fuel pool, two
17 was Number 3 spent fuel pool, three was the Number 2
18 reactor.

19 JEFF STEELE: Um-huh.

20 ELMER NAPLES: So when we do this update
21 today, you will call in for the bridge, correct?

22 JEFF STEELE: Right.

23 ELMER NAPLES: Okay, I'll coordinate the
24 updates and I will start with a summary of the Fukushima
25 plant status.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JEFF STEELE: Now I would say, I haven't
2 noticed that there's a whole lot of --

3 ELMER NAPLES: I know.

4 JEFF STEELE: -- you know, there's
5 uncertainty on sand versus water versus --

6 ELMER NAPLES: Yes, so here's what I want
7 to do, Jeff.

8 JEFF STEELE: Um-huh.

9 ELMER NAPLES: I want to go over the summary
10 of the plant status and I'll go through it with you right
11 now. There's no significant changes on plant status for
12 the spent fuel pool status since our 8 o'clock update
13 last night.

14 JEFF STEELE: Um-huh.

15 ELMER NAPLES: One, 2 and 3 reactors, core
16 damage, sea water injection in progress, 4 spent fuel
17 pool likely empty, no reports of ongoing fire. Japanese
18 are using helios (phonetic) to make water drops, trying
19 to use a fire truck also.

20 Number 3 pool, no new reports. That one's
21 got low water level. Yesterday rad levels spiked to 400
22 rem per hour. And then this morning they were reportedly
23 back down to 1 rem per hour at the site gate. Back down,
24 so pretty significant.

25 And five, diesel was being used to cool the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Number 5 and 6 spent fuel pools. The Japanese team at
2 Fukushima still reported to be a 100 strong. And Tepco
3 is reporting that they're expecting to restore site power
4 to Units 2, 5 and 6 today --

5 JEFF STEELE: You seem to have better
6 information then people here.

7 ELMER NAPLES: Because I'm reading from the
8 NRC status updates that they're sending out periodically.

9 JEFF STEELE: Oh.

10 ELMER NAPLES: But here's what I want though.
11 After I go through that summary --

12 JEFF STEELE: Um-huh.

13 ELMER NAPLES: -- I'm going to say, hey,
14 we have Jeff Steele, NRC EOC, and I'm going to ask you
15 to comment. I don't want you to contradict anything I
16 said.

17 JEFF STEELE: Okay, I won't.

18 ELMER NAPLES: What I want you to do is comment
19 on what NRC is viewing as priorities and what they're
20 working on.

21 JEFF STEELE: Okay, and what I'm hearing
22 here is they're working on getting a bunch of pumps and
23 gears shipped from Australia.

24 ELMER NAPLES: Okay.

25 JEFF STEELE: Because, that they have

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Bechtel scrounging up for them.

2 ELMER NAPLES: They do have four, five Navy
3 pumps --

4 JEFF STEELE: They do not know where they
5 are.

6 ELMER NAPLES: Jesus Christ.

7 JEFF STEELE: Yes, the last they have is
8 an email from Major Cook at the Air Force base at Yokota
9 yesterday saying that they arrived.

10 ELMER NAPLES: Yes.

11 JEFF STEELE: They do not know where they
12 are.

13 ELMER NAPLES: Who's working on that?

14 JEFF STEELE: I'm not sure they know who's
15 working on it.

16 ELMER NAPLES: All right.

17 JEFF STEELE: Yes, so they're actually
18 preceding to get a whole other set from Bechtel. Four
19 sets.

20 ELMER NAPLES: Yes, I'm going to work on
21 getting to know (inaudible) person up here to be tracking
22 this down.

23 JEFF STEELE: Because they asked me and
24 nobody on our bridge knew anything about, had heard in
25 the last day.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 ELMER NAPLES: See if you can get Glen
2 Southern (phonetic) to come to the ECC. I want to talk
3 to him.

4 JEFF STEELE: And then the other thing I
5 mentioned to Tom Conrad earlier is that there was some
6 frustration here about inability to get a real measurement
7 in the downwind plume.

8 ELMER NAPLES: Uh-huh.

9 JEFF STEELE: So the whole question of,
10 what's being admitted is very speculative without having
11 a measurement in the downwind plume and they were expression
12 here frustration that the DOE aerial monitoring airplane
13 --

14 ELMER NAPLES: Yes.

15 JEFF STEELE: -- you know, which is really
16 intended to find very small sources in flyovers. Yes,
17 they were in, unwilling to fly it through the plume.

18 ELMER NAPLES: Yes, I know.

19 JEFF STEELE: Yes, so all of these dose
20 projections that they're working on are based on
21 exceptionally speculative ideas of what's being released
22 because they don't have a good plume measurement --

23 ELMER NAPLES: Yes.

24 JEFF STEELE: -- of what's in it. Now if
25 that's of concern to someone, someone needs to fly through.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 ELMER NAPLES: Right.

2 JEFF STEELE: And measure that.

3 ELMER NAPLES: Yes.

4 JEFF STEELE: Yes, I didn't volunteer
5 anything.

6 ELMER NAPLES: Yes, don't talk in detail
7 on that.

8 JEFF STEELE: I --

9 ELMER NAPLES: Let's just say one of their
10 priorities is getting a measurement in the downwind plume.

11 JEFF STEELE: Well I can say that they're
12 having frustrations in not being able to. Because I don't
13 think they're working on it.

14 ELMER NAPLES: Okay, you can say that. So
15 I'm looking for 30 seconds to a minute of commentary
16 here from our man on the scene over there.

17 JEFF STEELE: Okay.

18 ELMER NAPLES: And then I'll move onto other
19 topics, okay?

20 JEFF STEELE: Okay.

21 ELMER NAPLES: All right.

22 JEFF STEELE: Thanks.

23 ELMER NAPLES: Good, thank you.

24 JEFF STEELE: Bye.

25 ELMER NAPLES: Bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 18, 2011

Work Order No.: NRC-4222

Pages 1-19

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

E0/8

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 FRIDAY,
8 MARCH 18th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%G6NW4L03865094

(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center.

CHRIS NOSER: Is Greg Casto there?

GREG CASTO: This is Greg.

CHRIS NOSER: Hey, this is Chris Noser from
Naval Reactor.

GREG CASTO: Hey, Chris.

CHRIS NOSER: How are you? You have a second?

GREG CASTO: You bet.

CHRIS NOSER: Okay, I was calling to
follow-up on discussions that we had earlier on the bridge

--

GREG CASTO: Yes.

CHRIS NOSER: -- regarding the source term
work that's being done.

GREG CASTO: Um-huh.

CHRIS NOSER: And one specific question was
what somebody had mentioned, I think you guys, that the
earlier source term that had been developed was based
on assumptions regarding the spent fuel pool at the reactor
by (inaudible) spent fuel?

GREG CASTO: Correct. So you got much more
Iodine out of that source than you would normally.
Correct.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 CHRIS NOSER: Okay, thank you very much for
2 clarifying that. And the last thing I was going to ask
3 is, and I think maybe we're going to discuss it on the
4 bridge later, I can wait for that I suppose, but I'm
5 trying to understand what the change is in the current
6 source term that's being developed?

7 GREG CASTO: Well --

8 CHRIS NOSER: Specific question that I think
9 --

10 GREG CASTO: Okay.

11 CHRIS NOSER: -- veering away from the 1
12 and 3 reactors that had previously been looked at and
13 moving onto this combined term with fuel and spent fuel.

14 GREG CASTO: Yes, and this will come. When
15 we deliver these source terms and it will be four separate
16 source terms because of how we model or how we characterize
17 each of the contributing --

18 CHRIS NOSER: Right.

19 GREG CASTO: -- core, you know, sections.

20 CHRIS NOSER: Right.

21 GREG CASTO: Right, right, right.

22 CHRIS NOSER: And what are the four.

23 GREG CASTO: Um, let's see.

24 CHRIS NOSER: Is it two 33 percent, is what
25 I heard on the --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 GREG CASTO: Correct, but that's an active
2 core.

3 CHRIS NOSER: Right.

4 GREG CASTO: Okay, then you have within the
5 Unit 3 spent --

6 CHRIS NOSER: Does that consume any
7 containment?

8 GREG CASTO: No, it won't.

9 CHRIS NOSER: Okay.

10 GREG CASTO: But what we're doing is we're
11 modeling the characteristics of activities in each one
12 of these cores.

13 CHRIS NOSER: Yes.

14 GREG CASTO: To better model. So you'll
15 have four pieces of radioisotope data.

16 CHRIS NOSER: Right, I understand.

17 GREG CASTO: Okay. So when we send this
18 we're going to get back on the bridge and we'll be prepared
19 to discuss it.

20 CHRIS NOSER: Okay, and --

21 GREG CASTO: So everybody will understand
22 what everything means.

23 CHRIS NOSER: Is that in near term here?

24 GREG CASTO: That is in the near term. We

25 --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealgross.com

1 CHRIS NOSER: Okay, great. Then I'll wait
2 for that.

3 GREG CASTO: Okay. It should be, I hate
4 to give you a time because I'll screw it up.

5 CHRIS NOSER: Yes, I'm sorry.

6 GREG CASTO: Yes, it will be soon.

7 CHRIS NOSER: Okay.

8 GREG CASTO: Okay, how's that?

9 CHRIS NOSER: Thanks.

10 GREG CASTO: Okay, bye.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%G78ED603865094

(CONFERENCE CALL INITIATED)

RANDY SULLIVAN: NRC PMT, Randy Sullivan
here.

CHRIS NOSER: Hey, is Greg Casto there?

RANDY SULLIVAN: Yes, he is. We've got him
typing something, can I help?

CHRIS NOSER: Aw.

RANDY SULLIVAN: He's a typist now.

CHRIS NOSER: Because you're trying to get
the source term done?

RANDY SULLIVAN: The source term guys look
like their heads are on fire, at least smoking and I
thought --

CHRIS NOSER: Can I ask you a question?

RANDY SULLIVAN: Sure.

CHRIS NOSER: I talked to him earlier about
the previous source term for the spent fuel that had
been iterated.

RANDY SULLIVAN: Yes.

CHRIS NOSER: And someone mentioned, maybe
it was you that mentioned, that it wasn't, it basically
decayed for --

RANDY SULLIVAN: Yes, the Iodine, the Iodine
was wrong.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 CHRIS NOSER: Yes, can I --

2 RANDY SULLIVAN: We have a new source term.

3 CHRIS NOSER: I know, I understand that and
4 I'm very interested in that. But before then, can I
5 actually get another gentlemen that I work with on the
6 phone --

7 RANDY SULLIVAN: Sure.

8 CHRIS NOSER: -- with you as well who has
9 done some analysis and is doing some of our own --

10 RANDY SULLIVAN: Good, good.

11 CHRIS NOSER: -- Mr. Shiner. Hold on a sec.

12 RANDY SULLIVAN: Yes.

13 CHRIS NOSER: Let me see if I can get him.
14 Mr. Shiner (phonetic), are you there?

15 PAUL SHINER: Yes, I am.

16 CHRIS NOSER: Okay, and Mr. Casto from the
17 NRC.

18 RANDY SULLIVAN: Well actually it's Randy
19 Sullivan from the NRC.

20 CHRIS NOSER: Sorry, Randy Sullivan on the
21 line.

22 RANDY SULLIVAN: Hey.

23 PAUL SHINER: Hello, Randy, this is Paul.
24 Go ahead.

25 CHRIS NOSER: Okay, so the question is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 basically regarding the earlier source term, I've
2 explained it to both of you. And so, Mr. Shiner, do you
3 want to make your question or comment here?

4 PAUL SHINER: Yes. I'm looking at the PDF
5 file that accompanies the source term information we
6 used last night.

7 CHRIS NOSER: which is the descriptive
8 information associated with the source term.

9 PAUL SHINER: Yes. And we did not repay
10 this any further. We used the listed (inaudible) pretty
11 much as what was in the source term.

12 And Mr. Noser has said that this source term
13 was fresh fuel. And trying to understand what the term,
14 fresh, means. Does that mean that it was fresh straight
15 out of the reactor but it might have been shutdown for
16 some number of hours or days before it was taken out
17 of the reactor vessel?

18 RANDY SULLIVAN: Yes. Can you tell me
19 specifically what, you're talking about a spent fuel
20 pool, right?

21 PAUL SHINER: Yes, this is Fukushima Unit
22 3 spent fuel pool --

23 RANDY SULLIVAN: Unit 3, yes. I think --

24 CHRIS NOSER: Wait a minute, Unit 4 I thought.
25 Correction, let's make sure we're all talking about

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 the same thing. I thought it was Unit 4 you were talking
2 about.

3 RANDY SULLIVAN: I have Naval Reactors on
4 the line, they're asking me, it isn't 100? I'm sorry
5 Abby. Hi, I don't know how to dial international.

6 PAUL SHINER: Chris, I think what's going
7 on is this source, could you hang on for just a moment.

8 RANDY SULLIVAN: Sure, yes.

9 (Off record comments)

10 CHRIS NOSER: Thanks for your help, Mr.
11 Sullivan.

12 RANDY SULLIVAN: Oh, it's no problem. Hey,
13 Greg? It was 30 day old in Unit 3?

14 GREG CASTO: I think your right.

15 RANDY SULLIVAN: And 105 in Unit 4?

16 GREG CASTO: And 105, correct.

17 PAUL SHINER: Okay, I'm back.

18 RANDY SULLIVAN: Okay.

19 PAUL SHINER: Hello, Chris, are you there?

20 CHRIS NOSER: Yes, we're all here. Can you
21 clarify your question here? Let's talk about Unit 4
22 please.

23 RANDY SULLIVAN: Yes, please ask your
24 question again.

25 PAUL SHINER: All right, there was a summary

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 set of pages that came with the source term. And there
2 was one summary page that applied to an uncovered water
3 pool.

4 RANDY SULLIVAN: Yes.

5 PAUL SHINER: And in that summary we're
6 trying to figure out how long the reactor had been shut
7 down prior to this source term?

8 RANDY SULLIVAN: Okay, the reactor that
9 we've been talking about is Unit 2 and it was shutdown,
10 on whatever that was, Friday. However, I think you're
11 talking about a spent fuel pool.

12 PAUL SHINER: Right.

13 RANDY SULLIVAN: And Unit 4 spent fuel pool,
14 there is fuel in it that's a 105 days old. And then if
15 I'm not mistaken, there's some older fuel in it too.

16 Unit 3, gosh I hope, yes, Unit 3 has some
17 fuel in it that is 30 days old. And I'm forgetting what
18 else is in that pool, although I've got it here somewhere.

19 CHRIS NOSER: Okay, but that's the facts.
20 And I think the question that's being asked is, were
21 the source term numbers, for like radio-iodine, for example,
22 decayed to reflect the three months or whatever 90 --

23 RANDY SULLIVAN: My understanding is no and
24 that's what we asked that that source term not be used.

25 CHRIS NOSER: Right.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 RANDY SULLIVAN: And we've been working for
2 the last few hours trying to get a better source term,
3 which I was hoping was getting out of here but I see
4 the guys still working on it.

5 PAUL SHINER: Okay, Chris, I've been looking
6 at this cover page some more.

7 CHRIS NOSER: Yes.

8 PAUL SHINER: And it has a section called
9 source term information.

10 CHRIS NOSER: Yes.

11 PAUL SHINER: And it says shutdown for newest
12 batch, 12-1-2010.

13 CHRIS NOSER: Yes.

14 PAUL SHINER: Okay, so it's been shut, the
15 newest (inaudible) has been shutdown for three months?

16 CHRIS NOSER: Right.

17 PAUL SHINER: And Iodine-131 contribution
18 was pretty low for selective of it being shutdown. So
19 it wasn't, it basically was shutdown for at least three
20 months. Some other material in this (inaudible) of this
21 fuel had been shutdown longer, but --

22 CHRIS NOSER: No, no, no. I think you're
23 still confusing it here. What I understand from Mr.
24 Sullivan and Mr. Casto, who I also talked with at the
25 NRC, is that the numbers in the source term don't reflect

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that time. It is treated as if it had just come out of
2 the reactor.

3 I think the problem here is that Mr. Shiner's
4 review of the data, his I guess view, is that the Iodine's
5 were already pretty low and so when I told him this updated
6 information, his response was, are you kidding me, if
7 you decay these another 90 days it's going to be much
8 lower than you would expect.

9 PAUL SHINER: Right. The Iodine from a
10 reactor that's just been operating or is operating when
11 that occurs is much higher than what this is.

12 We did the calculation for an operating
13 reactor and we had something like 13R to the thyroid.
14 And from this source term it was down to like .6R to
15 the thyroid indicating there was a lot less radioactive
16 Iodine here already --

17 RANDY SULLIVAN: At --

18 PAUL SHINER: -- having a operating reactor.

19 RANDY SULLIVAN: At what distance?

20 PAUL SHINER: Oh, that was (b)(5)

21 RANDY SULLIVAN: Uh-huh. Okay. Well --

22 PAUL SHINER: (b)(5)

23 RANDY SULLIVAN: I guess I came on at 11:00
24 and I don't know the ins and outs of the source term
25 that was previously transmitted. I just know that the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 staff was convinced we had the Iodine wrong.

2 CHRIS NOSER: Right, right.

3 RANDY SULLIVAN: And especially we had
4 mischaracterized the spent fuel pool.

5 CHRIS NOSER: Right.

6 RANDY SULLIVAN: And that we needed to redo
7 the source term, and we've been busy doing that.

8 CHRIS NOSER: Okay, and that's the best you
9 got at this point.

10 RANDY SULLIVAN: So that's where we're at
11 is we would ask you not to use that source term and --

12 PAUL SHINER: Well we'll be more than happy
13 to recalculate what he get in your source term.

14 RANDY SULLIVAN: Well we would ask you not
15 to publish data based on that source term.

16 CHRIS NOSER: Yes.

17 RANDY SULLIVAN: Because we don't think it's
18 right. And not that any of these are going to be perfect,
19 but we think we've got a better number and I need to
20 get out of my, well --

21 CHRIS NOSER: All right, get off the phone
22 and we can --

23 RANDY SULLIVAN: -- I guess me yakking at
24 these guys isn't going to make it go any faster but I
25 see that they're over there and it's not out of the building

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 yet.

2 CHRIS NOSER: All right.

3 RANDY SULLIVAN: And we were hoping it would
4 be out an hour ago.

5 CHRIS NOSER: Okay, so I understand and I
6 think what we'll do is we'll take that into consideration
7 and eagerly await the next source term.

8 RANDY SULLIVAN: Yes, I'm sorry that we're
9 late.

10 CHRIS NOSER: Nope, I understand. Okay,
11 thanks for your --

12 PAUL SHINER: Very well.

13 RANDY SULLIVAN: Okay, thank you.

14 CHRIS NOSER: Thank you bye.
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%GIUBG603865094

(CONFERENCE CALL INITIATED)

DUANE HARDESTY: Duane Hardesty, PMT coordinator, this is a recorded line, may I help you?

LEE NICKEL: Hello, this is Lee Nickel at Naval Reactors. Is this is the RADCON desk in the NRC EOC?

DUANE HARDESTY: He's right next to me, I can get him for you. Say again your name, sir?

LEE NICKEL: Lee Nickel.

DUANE HARDESTY: Lee Nickel, okay, hold on one second for you. Okay, I apologize, I have to transfer you again, but I'm trying to get you onto the speaker phone where the entire RAD team is so that they can give you their input.

LEE NICKEL: I don't know that I need all of them, but whatever you guys want to do.

DUANE HARDESTY: Well it's the protective measures director as well as the assistant director. So they both want to be able to talk to you.

LEE NICKEL: Okay.

DUANE HARDESTY: Okay, hold on one second.

LEE NICKEL: Thank you.

JOHN LUBINSKI: Oh, you got. John Lubinski, may I help you. This is NRC PMT John Lubinski speaking.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Whose on the line?

2 (No audio approximately 17 minutes)

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%GJK)@L03865094

(CONFERENCE CALL INITIATED)

DUANE HARDESTY: PMT coordinator, this is a recorded line, Duane Hardesty, may I help you?

LEE NICKEL: Hello, this is Lee Nickels at Naval reactors. I was trying to reach the RADCON desk earlier, put on hold for about 10 minutes.

DUANE HARDESTY: Okay, I actually thought, they're on a call with a couple other gentleman that had the same topic, I thought the call had gone through. I apologize.

LEE NICKEL: What's the topic? I never gave a topic.

DUANE HARDESTY: Well they were, I'm not part of the call so I don't know who the people on, but they were talking about the assumptions for the source term and --

LEE NICKEL: Now you mentioned that, is that the ongoing NRC discussion on the FDS line? Well let me see if I got the phone number here.

DUANE HARDESTY: Well they called into a line just as I transferred you, so that's why I thought it was your call. So hold on one second, let me confirm that.

Mr. Nickels, it's a conversation with DOE

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 regarding a super core analysis. I think that's what
2 they're terming it now which is more of a worse case
3 thing. They're currently on the call right now and so
4 the individuals that you need to talk to are in that
5 call. Is there a number where I can have them call you?

6 LEE NICKEL: Yes, it's (b)(6) I'd
7 like to understand from a high level what all the analyses
8 are that are going on, but I also have specific technical
9 questions I'm trying to resolve with regard to the NRC
10 RASCAL estimation for the spent fuel release.

11 DUANE HARDESTY: Okay, they are the right
12 people and I will get them to call you just as soon as
13 they are available.

14 LEE NICKEL: Okay, well thank you.

15 DUANE HARDESTY: Thank you.
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%GO-P3L03865094

(CONFERENCE CALL INITIATED)

BOB KAMER (phonetic): Hello, you've reach
Bob Kamer (phonetic) of the Emergency Preparedness Group
at the U.S. Nuclear Regulatory Commission. Please leave
your name and phone number and I will get back to you
as soon as I can.

DUANE HARDESTY: Hi, Bob, this is Duane
Hardesty, I'm calling from the Operations Center. I had
a question about Iodine tablet inventory and I was hoping
you could perhaps help me.

I was trying to get a hold of Annette Stang
but she's not in. I think she worked a late shift last
night.

So if you are in the office could you please
call the Headquarters Operation Center at 816-5100 and
ask for the PMT coordinator. I'm actually at 5195 but
I don't know if you can dial that direct. Thanks, bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 19, 2011

Work Order No.: NRC-4222

Pages 1-13

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/9

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 SATURDAY,

8 MARCH 19th, 2011

9 + + + + +
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%IQGUG_03865094

(CONFERENCE CALL INITIATED)

OPERATOR: PMT, this is a recorded line.

TERRY KRAUS: Yes, hi, this is Terry Kraus and Brian Hunt. We're with the Consequence Management Home Team.

OPERATOR: Okay.

TERRY KRAUS: And we'd like to speak with someone from the NRC. Is this the Protective Measures Group?

OPERATOR: Yes, it is.

TERRY KRAUS: Okay, excellent. Did you happen to be on that teleconference about an hour ago with Gerry Garino, Steve Aoki --

OPERATOR: Was this the one at 6:30?

TERRY KRAUS: Yes.

OPERATOR: Yes, I wasn't specifically on it full-time but I know a few people that were.

TERRY KRAUS: Okay.

OPERATOR: What sort of information were you looking for?

TERRY KRAUS: Well we are working with NARAC to try to produce some of that information that (b)(6)

(b)(6)

and some of the other folks have asked for.

OPERATOR: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 TERRY KRAUS: So we have, based on this super
2 core source-term, we have a list of 16 radionuclides
3 --

4 OPERATOR: Okay.

5 TERRY KRAUS: -- but we're really, you know,
6 I don't want to impugn anyone but we're kind of questioning
7 if that's the right 16.

8 OPERATOR: Oh, I see. Okay, so you probably
9 want to speak with Michelle Hart since she's involved
10 with those counts. So let me just put you on hold for
11 --

12 TERRY KRAUS: Okay, thank you.

13 OPERATOR: -- for a minute or so. Hold on.

14 TERRY KRAUS: Okay.

15 MICHELLE HART: Hello, this is Michelle
16 Hart.

17 TERRY KRAUS: Hi, Michelle, this is Terry
18 Kraus. I'm a CM Home Team Assessment Scientist.

19 MICHELLE HART: Okay.

20 TERRY KRAUS: And we just want to, I just
21 got done talking with NARAC, we're trying to address
22 all the concerns that (b)(6) expressed during that
23 recent teleconference we had with, that Gerry Garino
24 lined up.

25 MICHELLE HART: Uh-huh.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 TERRY KRAUS: And so NARAC would like to,
2 is planning on modeling the super core source term. At
3 least for one of these runs.

4 MICHELLE HART: Right.

5 TERRY KRAUS: And they have a top 16 list
6 of radionuclides which they got from the NRC. And we
7 are wondering how that list was developed because as
8 far as dose producing radionuclides we suspect there
9 be maybe better radionuclides or more or other
10 radionuclides that could produce a higher dose then,
11 especially some of the noble gases.

12 MICHELLE HART: Right.

13 TERRY KRAUS: Mainly in the, like in the
14 case when it's being transported to Alaska, California,
15 etcetera.

16 MICHELLE HART: Right, right. You have the
17 whole source term though, right?

18 TERRY KRAUS: Right.

19 MICHELLE HART: Is there some particular
20 source term that you're looking at, I mean particular
21 isotope you're looking at that you think would be more
22 appropriate then one that's in that list?

23 TERRY KRAUS: Well I'm thinking like
24 Praseodymium.

25 MICHELLE HART: Uh-huh.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 TERRY KRAUS: Praseodymium-90, 91, 92,
2 Degium-138 (phonetic), Moly-99, the Cesium-138, I can't
3 remember if I said that.

4 MICHELLE HART: Right.

5 TERRY KRAUS: Americium-141.

6 MICHELLE HART: Yes, at the time that the
7 list was probably developed was probably we were concerned
8 about the inhalation and submersion dose. And if you're
9 more concerned about the ingestion pathways for those
10 particular purposes, there maybe a different list that
11 maybe more important.

12 TERRY KRAUS: Yes. Have you ever gone down
13 that road to look at those?

14 MICHELLE HART: No, we have not. I think,
15 you know, we have the standard list. I won't say it's
16 a standard list but the standard ones are that of course
17 Iodine's and Cesium's that we are more concerned about
18 for the short term releases. So we don't have like a
19 standard set of isotopes that we setup for the long term.

20 TERRY KRAUS: Yes, because, okay, so I
21 understand. That makes sense that that list was generated
22 primarily with the in-plume dose.

23 MICHELLE HART: Right.

24 TERRY KRAUS: So I think our current task
25 involves the dose over 96 hours. So I think --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MICHELLE HART: Right.

2 TERRY KRAUS: So I think we need a little
3 bit different list. I'm trying to get NARAC to see if
4 they can model and expand a list beyond that 16 so we
5 can encapture some of those other radio and nuclides.

6 MICHELLE HART: Right.

7 TERRY KRAUS: Because I'm just afraid that

8 --

9 MICHELLE HART: We might miss something,
10 yes.

11 TERRY KRAUS: Yes, and if we give this to

12 (b)(5),(b)(6)

13
14 MICHELLE HART: (b)(6)

15 (b)(6)

16 TERRY KRAUS: Yes.

17 MICHELLE HART: Yes.

18 TERRY KRAUS: And I don't think any of us
19 want that to happen, so --

20 MICHELLE HART: No.

21 TERRY KRAUS: -- we're going to try and do
22 our best. So we will try and expand the list some.

23 MICHELLE HART: Okay.

24 TERRY KRAUS: I don't know, you know, I
25 certainly would like to get the by in from you guys.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MICHELLE HART: Sure.

2 TERRY KRAUS: If NARAC cannot do the entire
3 list than we'll have to try and make an abbreviated list
4 by something that picks up some of those other radionuclides
5 that deliver dose once it's on the ground.

6 MICHELLE HART: Sure. And were you planning
7 on take a first cut at that and then discussing it with
8 us or?

9 TERRY KRAUS: Yes, we're still going back
10 and forth a little bit with NARAC.

11 MICHELLE HART: Okay.

12 TERRY KRAUS: But, Michelle, is this, I mean
13 should we just call at this number or do you have an
14 email account or --

15 MICHELLE HART: We do have an email account
16 that you can send things to and you can also call into
17 the headquarters and ask for us --

18 TERRY KRAUS: Okay.

19 MICHELLE HART: -- if you have a discussion.
20 I can give you the email account?

21 TERRY KRAUS: Okay.

22 MICHELLE HART: It's pmt, that's papa, Mike,
23 tango, 12 --

24 TERRY KRAUS: Okay.

25 MICHELLE HART: -- .hoc, that's hotel, Oscar,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Charlie --

2 TERRY KRAUS: Okay.

3 MICHELLE HART: -- @nrc.gov.

4 TERRY KRAUS: nrc.gov, okay. All right,
5 so I'll get back with, we'll continue to work with NARAC,
6 we'll get back with you as soon as we have something.

7 MICHELLE HART: Okay.

8 TERRY KRAUS: Okay, thanks.

9 MICHELLE HART: Thank you.

10 TERRY KRAUS: Okay, bye.

11 MICHELLE HART: Bye.

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%IS(_4603865094

(CONFERENCE CALL INITIATED)

OPERATOR: PMT, this is a recorded line?

TERRY KRAUS: Hi, this is Terry Krauss, CM
Home Team. Is Michelle Hart there?

OPERATOR: Yes, she is.

TERRY KRAUS: Could I speak with her?

OPERATOR: Sure, hold on for a second.
Michelle, it's Terry from the home team. Should I have
him call back?

MICHELLE HART: What's he --

OPERATOR: Is there any specific questions
you have for her?

TERRY KRAUS: Yes, we --

OPERATOR: She's kind of busy right now.

TERRY KRAUS: -- talked a little while ago
about --

OPERATOR: You did?

TERRY KRAUS: -- adding some additional
radionuclides --

OPERATOR: Okay.

TERRY KRAUS: -- to the short list of 16
to account for some of the dose that's produced after
the materials on the ground. I sent her an email, NARAC
only can handle 20 radionuclides in their mix, so we

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 added four that we believe are the next most significant
2 dose producers.

3 OPERATOR: Okay, all right, she's right here
4 for a second. Hold on for a minute.

5 MICHELLE HART: This is Michelle Hart.

6 TERRY KRAUS: Hi, Michelle, Terry Krauss,
7 CM Home Team.

8 MICHELLE HART: Yes.

9 TERRY KRAUS: I talked with NARAC, they can
10 only support up to about 20 radionuclides in their runs
11 --

12 MICHELLE HART: Okay.

13 TERRY KRAUS: -- to have a reasonable run
14 time. So Brian Hunt and I looked at the radionuclides,
15 we believe that we found the next four top dose producing
16 radionuclides, we added them to the 16.

17 MICHELLE HART: Okay.

18 TERRY KRAUS: And I just sent you an email,
19 I'd like you to just look at that and if you could give
20 us a thumbs up or down.

21 MICHELLE HART: Okay.

22 TERRY KRAUS: We didn't mess with the
23 original 16, we just added four more.

24 MICHELLE HART: Okay. In your best opinion,
25 is that enough to cover what you need for the long term

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 stuff for the inhalation, I mean the ingestion stuff
2 that you need still?

3 BRIAN HUNT: I think it will give us enough
4 to track enough different things that we can take ratios
5 off of an aged full mix and be able to --

6 MICHELLE HART: Okay.

7 BRIAN HUNT: -- different stuff.

8 TERRY KRAUS: You know ideally we'd love
9 to do the whole mix --

10 MICHELLE HART: Right.

11 TERRY KRAUS: -- it's not a possibility.
12 So at least adding these other four we're looking at
13 dose producers that's on the ground in addition to those
14 in the air.

15 MICHELLE HART: Okay. Is it okay if I send
16 you an email back to let you know if thumbs up, thumb
17 down?

18 TERRY KRAUS: That would be great.

19 MICHELLE HART: Okay. I suspect we'll be
20 okay if it.

21 TERRY KRAUS: Okay. And if you have any
22 questions maybe if you just call us at this number we
23 can talk about it rather than I might not see the email
24 right away and --

25 MICHELLE HART: Okay, what is your number

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 again?

2 TERRY KRAUS: It is area code 505 --

3 MICHELLE HART: Excuse me, I need a piece
4 of paper.

5 TERRY KRAUS: Okay.

6 MICHELLE HART: There it is. 505.

7 TERRY KRAUS: 844.

8 MICHELLE HART: 844.

9 TERRY KRAUS: 6954.

10 MICHELLE HART: 6954.

11 TERRY KRAUS: And that number's also in the
12 email too.

13 MICHELLE HART: Okay.

14 TERRY KRAUS: I could have told you that
15 right up front.

16 MICHELLE HART: Well that's okay, in case
17 for some reason I didn't get the email or something.

18 TERRY KRAUS: Yes, okay, good point.

19 MICHELLE HART: All right. All right, well
20 thank you very much, I'll take a look at that and I'll
21 shoot you an email back and if I have any questions I'll
22 give you a call.

23 TERRY KRAUS: Okay, appreciate it. Thank
24 you.

25 MICHELLE HART: Thank you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 TERRY KRAUS: Bye.

2 MICHELLE HART: Bye.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS
COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 20, 2011

Work Order No.: NRC-4222

Pages 1-9

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/10

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 SUNDAY,
8 MARCH 20th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%J2K)K603865094

(CONFERENCE CALL INITIATED)

OPERATOR: Protective Measures Team.

LEE NICKEL: Hello, this is Lee Nickel
calling from Naval Reactors.

OPERATOR: Hi, Lee, how are you?

LEE NICKEL: Good, how are you.

OPERATOR: Fine. What can I help you with?

LEE NICKEL: Hey, in this morning's NRC
Sitrep, the protective measures team update, there's
a sentence in there that says RASCAL runs using data
supplied by AMS flyover and MEXT support the decision
for the 50 miles evacuation recommendation. Is there
a report from that or some plots for anything you can
provide me that are guides to look at because it may
be useful to us to figure, as we assess what we do down
in the Military bases South of Japan?

OPERATOR: Let me ask. Hold on one second.

LEE NICKEL: Okay.

OPERATOR: Hey, John? On the phone I have
Naval Reactors, they're calling about the Sitrep that
we posted and they had a question if we can provide them
with any of our data and assumptions on that?

JOHN: On --

OPERATOR: On the 50 mile evacuation.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN: Sure, put him on the phone over here.

2 OPERATOR: Okay. Hi, Lee?

3 LEE NICKEL: Hi.

4 OPERATOR: I'm sorry, but could you call
5 back and ask for extension 5419?

6 LEE NICKEL: Hold on, that was the first
7 number I dialed. It didn't pick up, but I'll go ahead
8 and dial that now.

9 OPERATOR: Okay, thanks.

10 LEE NICKEL: Yes.

11 OPERATOR: Bye.

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%J20!4L03865094

(CONFERENCE CALL INITIATED)

OPERATOR: Protective Measures Team.

LEE NICKEL: Hi, this is Lee Nickel again

OPERATOR: Hi, Lee. 5119's not working?

LEE NICKEL: 5419 isn't picking up. It's
Rebecca Harsten (phonetic). I'm getting a voicemail for
Rebecca Harsten.

OPERATOR: You're dialing 301-816 --

LEE NICKEL: 5419.

OPERATOR: Ah, okay.

LEE NICKEL: Could you hold on just one second
please?

OPERATOR: I'm sorry?

LEE NICKEL: Could you hold on just one
second?

OPERATOR: Sure. Who is 5100?

LEE NICKEL: Are you there?

OPERATOR: Yes. I think that you have to
dial that number through our operator and the operator
is 301-816-5100.

LEE NICKEL: Okay.

OPERATOR: And then you ask them for 5419.

LEE NICKEL: Okay, I'll try that.

OPERATOR: All right, thanks, Lee. Bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

LEE NICKEL: Bye.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%J6MSJL03865094

(CONFERENCE CALL INITIATED)

CRAIG POSTLEWAITE: Dr. Postlewaite.

NIMA ASHKEBOUSSI: Hey, Doctor Postlewaite, this is Nima Ashkeboussi with the Nuclear Regulatory Commission Op Center.

CRAIG POSTLEWAITE: Yes, good morning.

NIMA ASHKEBOUSSI: Good morning. We received your email and I'm trying to figure out how to open it, the protected website.

CRAIG POSTLEWAITE: You got to get on the classified system.

NIMA ASHKEBOUSSI: Okay.

CRAIG POSTLEWAITE: You all have access?

NIMA ASHKEBOUSSI: Well I open up the link and then there's, hold on one second. There's two choices, there's the (b)(5)

(b)(5)

CRAIG POSTLEWAITE: Okay. Yes, you're speaking over my head in terms of my knowledge on how to do that. I would suggest contacting the points of contact that I listed there --

NIMA ASHKEBOUSSI: Okay.

CRAIG POSTLEWAITE: -- and they may be able to provide the data by other secure means to you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 NIMA ASHKEBOUSSI: Okay.

2 CRAIG POSTLEWAITE: I would try that and
3 if that doesn't work give me a call back. I'm also trying
4 to get the Army and Navy data to you as well.

5 NIMA ASHKEBOUSSI: Okay. Would it be,
6 because we have a classified email address --

7 CRAIG POSTLEWAITE: Uh-huh.

8 NIMA ASHKEBOUSSI: -- would it be easier
9 for you to just send the information there?

10 CRAIG POSTLEWAITE: It probably would but
11 I'm more or less the individual just passing it along.
12 I think if you want to have the spigot turned on to
13 get this data that I would contact the points of contact
14 that I listed there in the email and they can send that
15 directly to you.

16 NIMA ASHKEBOUSSI: Okay, I'll do that.

17 CRAIG POSTLEWAITE: Okay.

18 NIMA ASHKEBOUSSI: Thank you.

19 CRAIG POSTLEWAITE: Uh-huh, bye.
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%J7MAEL03865094

(No words to transcribe.)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%J9XI(L03865094

(CONFERENCE CALL INITIATED)

OPERATOR: Your call is being answered by
(inaudible), (b)(6) is not available. To leave
a message wait for the tone. Record at the tone.

NIMA ASHKEBOUSSI: Hi, (b)(6) this is Nima
Ashkeboussi with the Nuclear Regulatory Commission's
Protective Measures Team. We were calling about the 12:30
call this afternoon and we didn't have the information
here to log in on that, so if it's still going on and
it's not too late we're interested in listening in. You
can send an email to us, pmt12.hoc@nrc.gov with that
or my phone number is 301-816-5100, extension 5403. Thank
you, bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 21, 2011

Work Order No.: NRC-4222

Pages 1-20

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/11

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 MONDAY,
8 MARCH 21st, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%K@8\$!_03865094

(CONFERENCE CALL INITIATED)

CHRIS: Pacific's Tsunami RMT, this is
Chris.

LOU BRANDON: Hi, Chris, this is Lou Brandon
Protective Measures Team Headquarters.

CHRIS: Hi, Lou, how are you?

LOU BRANDON: Doing pretty good.

CHRIS: Are you looking for Lee?

LOU BRANDON: Yes.

CHRIS: Okay, hold on a second.

LOU BRANDON: Thanks.

LEE: This is Lee.

LOUBRANDON: Hello, Lee, this is Lou Brandon
at the Protective Measures Team in Headquarters.

LEE: Hi, Lou, how are you?

LOU BRANDON: I'm doing pretty good.

LEE: Good.

LOU BRANDON: I was guided to call you to
see, regarding this meeting tomorrow exactly what we
should bring, I guess?

LEE: You're talking about the 8:30 meeting?

LOU BRANDON: I think this is the plume
modeling --

LEE: The plume modeling meeting, I don't

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 know exactly what we should bring. I mean this is, you
2 guys have the --

3 LOU BRANDON: All right, we should size it
4 up on our end in terms of what the --

5 LEE: Right. Now I know that --

6 LOU BRANDON: -- latest NARAC plots.

7 LEE: Right. And I know that the director
8 of USAID had asked a little earlier that did we have
9 any information that could help him prepare for that
10 meeting. And we haven't done anything in that regard.

11 I mean I know Lisa was trying to work something
12 and I know you got trumped by some of the things this
13 evening. And I guess we can't release plume models but
14 she was looking for some kind of something in layman's
15 terms that we could help prepare the director of USAID.
16 But, so I know that.

17 LOU BRANDON: Okay.

18 LEE: But other than the email that I got,
19 I mean you got the same email that everybody got I think.

20 LOU BRANDON: Yes, I think so. So we have
21 a folder circulating around here with a number of resources.

22 That should give you some substance to work with there.

23 And I'm not sure how this is coming forth

24 --

25 LEE: Wait, wait, say that one more time?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 You have a folder of information --

2 LOU BRANDON: Yes, that should give you some
3 substance to look at.

4 LEE: Is it something that's electronic?
5 Because I'm in --

6 LOU BRANDON: I haven't looked at everything
7 in there, I don't know what is, my mind is split in several
8 different directions and I --

9 LEE: Oh, I totally understand, yes.

10 LOU BRANDON: I was just guided to call you
11 to see if there was something specific we should send
12 in. I think probably we're already working that issue
13 on this end.

14 LEE: Yes. Because what we had asked for
15 here was something to prepare the director of USAID for
16 that meeting.

17 LOU BRANDON: All right.

18 LEE: Because he's going to be at the White
19 House, you know, so that would be like our chairman going
20 kind of a thing. And since I'm NRC and I'm sitting here
21 liaisoning with them, they --

22 LOU BRANDON: Okay.

23 LEE: -- they were asking is there anything
24 that we could provide him to help him prepare.

25 LOU BRANDON: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LEE: That was it, it was --

2 LOU BRANDON: And where, what's the
3 objective --

4 LEE: And of course this is somebody --

5 LOU BRANDON: -- where we trying to go with
6 this?

7 LEE: Well this is the plume meeting at 8:30
8 at the White House.

9 LOU BRANDON: Yes.

10 LEE: The director of USAID is expected to
11 attend that meeting.

12 LOU BRANDON: Okay.

13 LEE: As well as, I'm sure there's an NRC
14 person attending that meeting.

15 LOU BRANDON: Yes.

16 LEE: Right, I mean NRC was invited to that
17 meeting. So a lot of agency's are expected to either
18 show up or call in or whatever it is for that 8:30 meeting.

19 And the director USAID is not a nuclear person and is
20 trying to get --

21 LOU BRANDON: Trying to get some perspective
22 on what's happening, yes.

23 LEE: -- some kind of perspective on, you
24 know, and to be prepared. (b)(6)

25 (b)(6)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

(b)(6)

So, you know, we were looking for some kind of something if there was anything in layman's terms that we could provide him to get somewhat prepared for --

LOU BRANDON: Okay.

LEE: -- the 8:30 meeting. Does that make sense?

LOU BRANDON: It makes sense and I'm thinking is there anything electronic and I'm wondering what's in the folder already and I'm wondering how it's going to get there and when it's going to get there and I don't, there's a lot of pieces here.

LEE: Yes.

LOU BRANDON: And I already, I have two other jobs I need to attend to right now.

LEE: Right, no I understand. I understand.

LOU BRANDON: So to deal with it.

LEE: I don't know if there's a scanner there?
Is there a scanner?

LOU BRANDON: Yes, I'm sure there is.

LEE: You know, make a PDF or something.
It's a thought, you know, whatever you think is appropriate.
If we can get something that would be helpful.

LOU BRANDON: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LEE: It wasn't --

2 LOU BRANDON: And you want it to you, to
3 yourself right now?

4 LEE: Well I am, actually the best place
5 is to email it to the NRC desk here. And it's, are you
6 ready, can you write --

7 LOU BRANDON: Yes, I'm writing it right now.

8 LEE: Okay, the email address is Romeo, mama,
9 tango, papa, alpha, Charlie, tango, Sierra, umbrella.
10 And what that stands for is Response Monitoring Team
11 Pacific Tsunami.

12 LOU BRANDON: Okay --

13 LEE: Okay.

14 LOU BRANDON: -- T-S-U are the last three?

15 LEE: Yes, T-S-U.

16 LOU BRANDON: Okay.

17 LEE: @ofda, Oscar, foxtrot, delta,
18 alpha, .gov.

19 LOU BRANDON: Okay, I missed that whole last
20 part, @ --

21 LEE: oft, I'm sorry, so Oscar, foxtrot,
22 delta, alpha.

23 LOU BRANDON: Foxtrot, delta, alpha.

24 LEE: I think it's --

25 LOU BRANDON: ofda.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 LEE: Yes, I think it's like Office of Foreign
2 Disaster Assistance, is that right?

3 LOU BRANDON: Okay.

4 LEE: I got a thumbs up there, and .gov.

5 LOU BRANDON: .gov.

6 LEE: Yes, and oh actually, and I'm sorry,
7 after the T-S-U, I forgot the other part because you
8 don't want to send it to everybody. So tsu, so we have
9 rmtpacpsu_elnrc, echo, lima, NRC.

10 LOU BRANDON: el --

11 LEE: el, and el I think is supposed to be
12 like expert liaison or something like that.

13 LOU BRANDON: Okay.

14 LEE: So we're elnrc. So _elnrc gets it
15 to our desk.

16 LOU BRANDON: Okay.

17 LEE: Okay?

18 LOU BRANDON: All right.

19 LEE: Oh, you're awesome, thank you so much.

20 LOU BRANDON: Well --

21 LEE: Any help would be greatly appreciated.

22 LOU BRANDON: -- haven't done anything yet.
23 We'll see what we could get going.

24 LEE: Well no, I appreciate just the fact
25 that you're trying.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LOU BRANDON: Okay.

2 LEE: And that means a lot. So, you know,
3 because we're kind of blind out here so appreciate that.

4 LOU BRANDON: Okay.

5 LEE: Thank you.

6 LOU BRANDON: We'll see what we can do, Lee.

7 LEE: Okay.

8 LOU BRANDON: Bye-bye.

9 LEE: Bye-bye.

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%K65%%L03865094

(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center, Greg
Casto.

MR. HIEKEN: Hi, it's Chris Noser at Naval
Reactors.

GREG CASTO: Hey, Chris.

CHRIS NOSER: Hey. I wanted to make sure
you all had gotten a copy of the data from SIPR that
I coordinated to get you?

GREG CASTO: You know, I haven't checked
yet --

CHRIS NOSER: I called your --

GREG CASTO: -- I will.

CHRIS NOSER: -- Op Center and told them
to bring it to the protective measures team.

GREG CASTO: Okay, yes. We haven't gotten
anything yet but I will check.

CHRIS NOSER: Yes, because it's the plume
data from 50 miles or so off the coast.

GREG CASTO: I'm on my way right now to check
that out.

CHRIS NOSER: Yes, topic stuff --

GREG CASTO: Appreciate it.

CHRIS NOSER: -- might be interested in.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 GREG CASTO: Yes, thanks for staying on top
2 of, oh, okay.

3 CHRIS NOSER: Yes, Major Burrow's was
4 talking to you so I said this probably be good for you.

5 GREG CASTO: Right, okay, appreciate it.

6 CHRIS NOSER: Thanks.

7 GREG CASTO: Thank you.

8 CHRIS NOSER: All right, yes.

9 GREG CASTO: Bye.

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%K82{5_03865094

(CONFERENCE CALL INITIATED)

GREG CASTO: NRC Operations Center Greg
Casto.

CHRIS NOSER: Hi, It's Chris Noser, Naval
Reactors.

GREG CASTO: Hey, Chris.

CHRIS NOSER: Hey. I wanted to make sure,
I just sent a fax to you from Mr. Burrow's and want to
make sure you got?

GREG CASTO: Yes, thank you very much. We
did and we're looking at it now.

CHRIS NOSER: And you have the other data
as well?

GREG CASTO: The other, oh, the data that
we were talking about on the phone earlier with Mr. Burrows?

CHRIS NOSER: The SIPRNet data?

GREG CASTO: SIPRNet data, those are the
wind plots. Okay, well let's see. What we have that
we got over SIPRNet, we have wind plots and --

CHRIS NOSER: And a --

GREG CASTO: -- the flyover.

CHRIS NOSER: -- PDF file that's got
preliminary particulate fission product results?

GREG CASTO: I think that, yes, I believe

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that's what we have.

2 CHRIS NOSER: Okay, good.

3 GREG CASTO: Yes, thank you.

4 CHRIS NOSER: With latitude, longitude and
5 other things?

6 GREG CASTO: Yes.

7 CHRIS NOSER: Okay, good.

8 GREG CASTO: Okay.

9 CHRIS NOSER: Okay, thanks.

10 GREG CASTO: Thanks.

11 CHRIS NOSER: Bye.

12 GREG CASTO: Bye.

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%KINC7603865094

(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Hello, this is Joe Calichino (phonetic), please leave a message.

PROSANTA CHOWDHURY: Hey, Joe, this is Prosanta. I left my information with Philip that I'd be in the operation center today until 3 o'clock. And I came by, you are not there yet so I'm just letting you know that I'm here and if you need anything you can contact me at the Op Center through the bridge board and they would let through, which is I think 5100. 816-5100 or you can stop by. So see you later, bye-bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%KIUXI_03865094

(CONFERENCE CALL INITIATED)

DAN: Hello?

PROSANTA CHOWDHURY: Hey, Dan?

DAN: Yes.

PROSANTA CHOWDHURY: This is Prosanta.

DAN: Hey, Prosanta.

PROSANTA CHOWDHURY: Hey, are you, did you see my calendar for today at 2 o'clock to call PSAG?

DAN: Yes.

PROSANTA CHOWDHURY: Okay, I'm at the Op Center, I don't know whether they accepted it or not?

DAN: I did accept it but I'll in the Op Center at 3 o'clock.

PROSANTA CHOWDHURY: Oh, 3 o'clock.

DAN: Yes, I'll come in for the 3:00 to 11:00 shift.

PROSANTA CHOWDHURY: Oh, okay. But you can attend the call at 2:00, right?

DAN: I can, yes, I'm working in the office beforehand so I'll be there.

PROSANTA CHOWDHURY: Okay, it will be a short call but I think all we need to do is tell them briefly what the status of it --

DAN: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 PROSANTA CHOWDHURY: -- of it. Set with
2 EP to view (inaudible). And I'm not going to make it
3 a long call and I'm even going to call them to see if
4 we can do it earlier if possible.

5 DAN: Right, but I won't be there till around
6 noon time or so. I'm home right now.

7 PROSANTA CHOWDHURY: Okay.

8 DAN: So um.

9 PROSANTA CHOWDHURY: Okay, all right.

10 DAN: If you want to do it earlier give me
11 call and let me know when. But I wouldn't say anything
12 earlier than 1:00.

13 PROSANTA CHOWDHURY: Right, right. It
14 won't be any earlier than 1:00.

15 DAN: Okay.

16 PROSANTA CHOWDHURY: Okay. But right now
17 it's at 2 o'clock.

18 DAN: That's good, time works for me.

19 PROSANTA CHOWDHURY: Okay, thanks.

20 DAN: All right.

21 PROSANTA CHOWDHURY: Okay, bye-bye.

22 DAN: Talk to you later, bye.

23 PROSANTA CHOWDHURY: Bye.
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%KPPE1603865094

(CONFERENCE CALL INITIATED)

STEPHANIE COFFIN: Stephanie Coffin.

ARLIN (phonetic): Hey, Stephanie, this is
Arlin (phonetic), how are you?

STEPHANIE COFFIN: Hi, Arlin.

ARLIN: Hey, I'm a little bit stuck here
in the Op Center --

STEPHANIE COFFIN: Oh, okay.

ARLIN: -- waiting for my replacement to
come here. So as soon as he gets there I will be over
there, okay.

STEPHANIE COFFIN: Okay, I was going to come
up to your office.

ARLIN: Oh, yeah?

STEPHANIE COFFIN: But unfortunately, let's
see, so what time, let's see.

ARLIN: It's --

STEPHANIE COFFIN: Well call me when you
get back to your office.

ARLIN: All right.

STEPHANIE COFFIN: We might have to end up
rescheduling because I have meetings starting at 2:00
for the rest of the afternoon, so.

ARLIN: Okay, all right.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 STEPHANIE COFFIN: One day we'll have this
2 meeting.

3 ARLIN: There you go.

4 STEPHANIE COFFIN: So just call me when you
5 get back in your office.

6 ARLIN: All right, thank you.

7 STEPHANIE COFFIN: See you.

8 ARLIN: Bye.
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%KRO#6L03865094

(CONFERENCE CALL INITIATED)

DAN: Hello?

PROSANTA CHOWDHURY: Hey, Dan?

DAN: Yes.

PROSANTA CHOWDHURY: Prosanta. Are you in
your office?

DAN: I will be in a minute. I'm not quite
there yet.

PROSANTA CHOWDHURY: Okay. So maybe you
can make the call from your office?

DAN: Okay.

PROSANTA CHOWDHURY: Okay, I'll come down
there.

DAN: All right, see you then.

PROSANTA CHOWDHURY: Thanks, bye-bye.

DAN: Bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%KT1BNL03865094

(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: This is Steve Lavie at the Nuclear Regulatory Commission, I'm not able to take your call at this time, please leave a message and the date of which you left the, and a phone number where I can return your call. Thank you.

PROSANTA CHOWDHURY: Hey, Steve, this is Prosanta calling from the NRC Headquarters Operation Center. This is regarding your shift as PMT RAAD Assessment Director.

And your shift for Monday March the 21st is from 3:00 p.m. to 11:00 p.m. That's what I was told and it's on the advisor roster. So I hope you are responding here.

If you get this message you can call to HOO and back to, let me see, 301-816-5403 and then we'll talk about it. Or just show up. I hope you'll be able to make it, thanks, bye-bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 22, 2011

Work Order No.: NRC-4222

Pages 1-20

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

E0/12

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 TUESDAY,
8 MARCH 22nd, 2011

9 + + + + +

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%M2QA@L03865094

(CONFERENCE CALL INITIATED)

KAREN: NARAC, this is Karen.

NIMA ASHKEBOUSSI: Hi, Karen, this is Nima Ashkeboussi with the Nuclear Regulatory Commission Operations Center, this is a recorded line.

KAREN: Yes, Nima?

NIMA ASHKEBOUSSI: Yes.

KAREN: Okay.

NIMA ASHKEBOUSSI: Hi, how are you?

KAREN: Good.

NIMA ASHKEBOUSSI: I'm calling about a model that was provided earlier today, the Trans Pacific model. And we were interested in getting the airborne Iodine activities or concentrations that were in that plume for that model?

KAREN: Okay, just one minute. Okay, and you're calling from NRC?

NIMA ASHKEBOUSSI: Yes.

KAREN: And is it Washington?

NIMA ASHKEBOUSSI: Right.

KAREN: Okay. Nima, what is your last name?

NIMA ASHKEBOUSSI: Ashkeboussi, A-S-H-K-E-B-O-U-S-S-I.

KAREN: Okay, and is this the number that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 you're calling from, is --

2 NIMA ASHKEBOUSSI: It's 301-816-5100,
3 extension 5403.

4 KAREN: Okay, specifically asking for the
5 Trans Pacific model and the airborne activity in the
6 plume?

7 NIMA ASHKEBOUSSI: Right, the airborne
8 activity, for Iodine. The Iodine activity or
9 concentration in the plume.

10 KAREN: Okay, just one moment please.

11 NIMA ASHKEBOUSSI: Okay, thank you.

12 KAREN: Nima?

13 NIMA ASHKEBOUSSI: Yes.

14 KAREN: I'm going to have somebody give you
15 a call back on that.

16 NIMA ASHKEBOUSSI: Okay.

17 KAREN: I'm going to have somebody, and I
18 have your number, 301-816-5100 extension 5403?

19 NIMA ASHKEBOUSSI: Right.

20 KAREN: Okay, Trans Pacific model airborne
21 for Iodine concentration in plume.

22 NIMA ASHKEBOUSSI: Right.

23 KAREN: Okay.

24 NIMA ASHKEBOUSSI: Do you know when they
25 might get back, because this is a pretty high priority

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 item that we get that --

2 KAREN: Okay.

3 NIMA ASHKEBOUSSI: -- today?

4 KAREN: And you're waiting for that
5 information?

6 NIMA ASHKEBOUSSI: Yes.

7 KAREN: Okay, so you don't have a question
8 on it but you're waiting for that information?

9 NIMA ASHKEBOUSSI: Right.

10 KAREN: Okay, let me --

11 NIMA ASHKEBOUSSI: Well, well it's, they,
12 you guys provided us with a model, but the model had
13 surface contamination. We were interested in getting
14 the airborne plume concentration.

15 So you guys did provide a piece of information,
16 but we just want a different piece of information.

17 KAREN: Okay, airborne plume.

18 NIMA ASHKEBOUSSI: Right.

19 KAREN: Okay, got you.

20 NIMA ASHKEBOUSSI: The airborne
21 concentrations in the plume.

22 KAREN: Okay, got it.

23 NIMA ASHKEBOUSSI: Okay.

24 KAREN: Let me have somebody call you back.

25 NIMA ASHKEBOUSSI: Okay, thank you very

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 much.

2 KAREN: Okay, bye.

3 NIMA ASHKEBOUSSI: Bye.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%M4SO2L03865094

(CONFERENCE CALL INITIATED)

LAURA BETH: NARAC, this is Laura Beth.

NIMA ASHKEBOUSSI: Hi, this is Nima Ashkeboussi with the Nuclear Regulatory Commission, this is a recorded line. We made a call about an hour ago to retrieve some information related to Iodine activity in a model that you guys ran for us.

LAURA BETH: Um-huh.

NIMA ASHKEBOUSSI: And I was just calling to see if that was being worked on, if there were any questions about that because that's a high priority question we need answered?

LAURA BETH: Okay, and I'm sorry, you said your name so quickly?

NIMA ASHKEBOUSSI: Oh, sure. It's Nima.

LAURA BETH: Uh-huh.

NIMA ASHKEBOUSSI: And my last name is Ashkeboussi.

LAURA BETH: And you're with the Nuclear

--

NIMA ASHKEBOUSSI: The Nuclear Regulatory Commission.

LAURA BETH: Just one minute please.

NIMA ASHKEBOUSSI: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LAURA BETH: Thank you.

2 JOHN NAASTROM: Yes, hi, this is John
3 Naastrom from NARAC.

4 NIMA ASHKEBOUSSI: Hi, John, this is Nima
5 Ashkeboussi with the NRCs Protective Measures Team.

6 JOHN NAASTROM: Uh-huh.

7 NIMA ASHKEBOUSSI: Earlier you guys had
8 provided us a Trans Pacific model and we were interested
9 in getting the airborne Iodine activity in plume.

10 JOHN NAASTROM: Oh. Yes, I think we saved
11 that. So for each, each of those U.S. locations?

12 NIMA ASHKEBOUSSI: Right.

13 JOHN NAASTROM: Okay. Did you say the Iodine,
14 never mind, we got the guy who I need to ask that question
15 is in the middle of trying to (b)(5)

16 (b)(5)

17 So I think we did, the official channel,
18 we'll have to see if we, how hard it would be to extract
19 it, but all our requests have to go through DOE Headquarters.
20 So I will make a note of that, we'll start looking into
21 it.

22 But if you could call the DOE Headquarters
23 Operations Center.

24 NIMA ASHKEBOUSSI: Okay.

25 JOHN NAASTROM: They're the, everything

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that's the official channel but we'll start looking into
2 it.

3 NIMA ASHKEBOUSSI: Okay, do you have that
4 number?

5 JOHN NAASTROM: Yes, it's area code 202.

6 NIMA ASHKEBOUSSI: Okay.

7 JOHN NAASTROM: 586.

8 NIMA ASHKEBOUSSI: Okay.

9 JOHN NAASTROM: 8100.

10 NIMA ASHKEBOUSSI: Okay.

11 JOHN NAASTROM: And I'll just let you know
12 that we are in, as you may already know, the one we've
13 issued so far is probably the one you've seen which is
14 for the super core scenario.

15 NIMA ASHKEBOUSSI: Yes.

16 JOHN NAASTROM: Okay, so there's been a
17 request to redo that with the MELCOR --

18 NIMA ASHKEBOUSSI: MELCOR, right.

19 JOHN NAASTROM: -- source term that you've
20 gave us.

21 NIMA ASHKEBOUSSI: Right, right, right.

22 JOHN NAASTROM: So all things, you know,
23 are going to be updated with that hopefully.

24 NIMA ASHKEBOUSSI: Okay.

25 JOHN NAASTROM: Okay, sounds like you're

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 already aware of that?

2 NIMA ASHKEBOUSSI: Right, yes.

3 JOHN NAASTROM: So --

4 NIMA ASHKEBOUSSI: For the Trans Pacific
5 that was run earlier, we were just interested in getting
6 --

7 JOHN NAASTROM: Looking for the Iodine air
8 concentration --

9 NIMA ASHKEBOUSSI: In the plume. Because
10 we got the surface contamination deposited, but we need,
11 our chairman is asking to get it, what's the actually
12 activity in the plume.

13 JOHN NAASTROM: Right, okay. And he's
14 specifically interested in Iodine?

15 NIMA ASHKEBOUSSI: In Iodine, yes.

16 JOHN NAASTROM: Yes.

17 NIMA ASHKEBOUSSI: Okay, well we'll make
18 the call to DOE Headquarters, but this is kind of a quick
19 turnaround item that we were given. Do you have an idea
20 of how long it will take to pull that?

21 JOHN NAASTROM: Well I guess, yes, and I
22 know and I think I added on a call earlier with folks
23 in the NRC and I know the chairman's are interested in
24 all the details of the --

25 NIMA ASHKEBOUSSI: Right.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN NAASTROM: -- the ingestion possible
2 as well.

3 NIMA ASHKEBOUSSI: Right, he's going to the
4 White House tomorrow and it's something that he would
5 like to know.

6 JOHN NAASTROM: Yes. Yes, so the best thing
7 since DOE has been asking us similar questions and
8 information and that's why I thinks also important to
9 check with them also.

10 NIMA ASHKEBOUSSI: Okay.

11 JOHN NAASTROM: (b)(5)
12 (b)(5) so kind of want
13 --

14 NIMA ASHKEBOUSSI: It's something that may
15 already be --

16 JOHN NAASTROM: -- that they're talking
17 together, yes, in coordinating their visits and their
18 information. Okay, so let me make sure I have you name
19 spelled right. Could you spell it all out for me?

20 NIMA ASHKEBOUSSI: It's a, first name is
21 Nima, N-I-M-A.

22 JOHN NAASTROM: N-I-M-A, okay.

23 NIMA ASHKEBOUSSI: Last name is, A-S, as
24 in September, H-K-E-B, as in boy, O-U, September, September,
25 I.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN NAASTROM: Okay.

2 NIMA ASHKEBOUSSI: And our number here is
3 301-816-5419.

4 JOHN NAASTROM: 816-5419?

5 NIMA ASHKEBOUSSI: Yes.

6 JOHN NAASTROM: Okay, and you want Iodine
7 air concentrations, now that's going to be a function
8 of time obviously and I think we may, if we saved it
9 would be like 24 hour averages, just so you know.

10 NIMA ASHKEBOUSSI: Okay.

11 JOHN NAASTROM: Iodine air concentration
12 at U.S. locations for U.S. impact super core scenario.

13 NIMA ASHKEBOUSSI: That's the Trans Pacific
14 model?

15 JOHN NAASTROM: Yes.

16 NIMA ASHKEBOUSSI: Okay.

17 JOHN NAASTROM: So all the Trans Pacific
18 area. Okay.

19 NIMA ASHKEBOUSSI: Okay, great.

20 JOHN NAASTROM: So yes, give DOE a call
21 because they're asking us to do those --

22 NIMA ASHKEBOUSSI: Okay, we will.

23 JOHN NAASTROM: -- ten things and you know,
24 we just have to have one coordinating point --

25 NIMA ASHKEBOUSSI: Right, right.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN NAASTROM: -- like everybody does,
2 okay.

3 NIMA ASHKEBOUSSI: I understand.

4 JOHN NAASTROM: Thanks.

5 NIMA ASHKEBOUSSI: Thanks, John.

6 JOHN NAASTROM: Bye-bye.

7 NIMA ASHKEBOUSSI: Bye.
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%M50S9L03865094

(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: You have reached the
United States Department of Energy Operations Center.
Your call is being transferred to a DOE watch officer.

RONNIE: This is Ronnie.

NIMA ASHKEBOUSSI: Hi, Ronnie, this is Nima
Ashkeboussi with the Nuclear Regulatory Commission
Operations Center, this is a recorded line. We've been
working with NARAC to get some dose plume models and
one of the models that they provided us, we have an
additional followup question that we'd like to get a
response to on their Trans Pacific model.

RONNIE: Yes, sir, what I'm going to do,
sir, this is the Op Center, our NIT Ops they can handling
the reports you're asking for.

NIMA ASHKEBOUSSI: Okay.

RONNIE: What's your name again?

NIMA ASHKEBOUSSI: Nima Ashkeboussi.

RONNIE: Nema, -E --

NIMA ASHKEBOUSSI: N-I-M-A.

RONNIE: Hey, Nima, I'm getting out it for
you maybe they'll be able to answer that. Stand by, sir.

NIMA ASHKEBOUSSI: NIT Ops, okay, thanks.

RONNIE: Yes, they'll be able to take care

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 of you.

2 NIMA ASHKEBOUSSI: Okay, thank you.

3 RONNIE: Nima, you still there?

4 NIMA ASHKEBOUSSI: Yes, I'm here.

5 RONNIE: NIT Ops, are you there?

6 JOHN CRAPO: I'm here.

7 RONNIE: Okay, watch office on the drop.

8 JOHN CRAPO: This is John Crapo.

9 NIMA ASHKEBOUSSI: Hi, John, this is Nima
10 Ashkeboussi with the NRC's Operations Center.

11 JOHN CRAPO: Uh-huh.

12 NIMA ASHKEBOUSSI: We were given a dose model
13 by NARAC earlier today or yesterday, the Trans Pacific
14 model that they ran for us, and we had a followup question
15 on what airborne Iodine activity was in the plume. So
16 we were wondering if we could get that information?

17 JOHN CRAPO: Um --

18 NIMA ASHKEBOUSSI: We spoke with, I just
19 spoke with NARAC a while ago and they just said to call
20 the Ops number to officially put the call through to
21 them, to you guys.

22 JOHN CRAPO: So when they want us to ask
23 the question --

24 NIMA ASHKEBOUSSI: Yes, correct.

25 JOHN CRAPO: So for the Trans Pacific run,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 you need to know Iodine-131 in-plume?

2 NIMA ASHKEBOUSSI: Correct, the activity
3 or concentration in the plume for the U.S. locations.

4 JOHN CRAPO: For U.S. locations. All right,
5 I'll have somebody get in touch with NARAC and I'll have
6 them get in touch the --

7 NIMA ASHKEBOUSSI: Okay, can --

8 JOHN CRAPO: -- NRC Op Center. Is there
9 a specific person they need to --

10 NIMA ASHKEBOUSSI: You can have them call
11 the Protective Measures Team and our number is
12 301-816-5419.

13 JOHN CRAPO: Okay.

14 NIMA ASHKEBOUSSI: And we have a kind of
15 quick turnaround time on this, so if it can be done in
16 under an hour --

17 JOHN CRAPO: To the best that I can for you.

18 NIMA ASHKEBOUSSI: To the best that they
19 can, right.

20 JOHN CRAPO: Because I do the best that I
21 can.

22 NIMA ASHKEBOUSSI: Correct.

23 JOHN CRAPO: All right.

24 NIMA ASHKEBOUSSI: All right, thanks, John.

25 JOHN CRAPO: You bet.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 NIMA ASHKEBOUSSI: All right, bye.

2 JOHN CRAPO: Bye.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%MUIT2L03865094

(CONFERENCE CALL INITIATED)

MIKE NORRIS: NRC Operations Center, this is a recorded line, Mike Norris.

CHRIS NOSER: Hi, I was calling to see if I could talk to the Protect Measures Division, please? This is NRC?

MIKE NORRIS: Yes, this is it.

CHRIS NOSER: Oh.

MIKE NORRIS: I'm one of the members, the directors and all are in a briefing.

CHRIS NOSER: Briefing, yes, I heard. I'd like to talk to someone who, I've been working with Greg Casto but I can talk to anyone that can access SIPRNet. I have an email for you all that I have some information to pass --

MIKE NORRIS: And who are you?

CHRIS NOSER: Chris Noser at Naval Reactors.

MIKE NORRIS: Okay.

CHRIS NOSER: So I have an email for you, let me find it again here.

MIKE NORRIS: Yes, I'll have to find somebody who's got access to SIPRNet.

CHRIS NOSER: Yes. This is probably worth the time.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MIKE NORRIS: Yes, that's fine.

2 CHRIS NOSER: Yes. Some detailed life
3 isotopic analysis from another organization that I got
4 imported.

5 MIKE NORRIS: Okay.

6 CHRIS NOSER: Those areas --

7 MIKE NORRIS: Yes, it's --

8 CHRIS NOSER: Yes, I've got an address for
9 you, hool@nrc.sgov.gov.

10 MIKE NORRIS: hool, oh, okay, the HOO's.

11 CHRIS NOSER: Yes, I guess that's who I was
12 able to send it to last time and they got it to --

13 MIKE NORRIS: Yes, I'll go into the center
14 and talk to those guys. Do you have a call back number
15 in case I --

16 CHRIS NOSER: Yes, not this number. It's
17 202.

18 MIKE NORRIS: 202.

19 CHRIS NOSER: 781.

20 MIKE NORRIS: 781.

21 CHRIS NOSER: 6387.

22 MIKE NORRIS: 6387.

23 CHRIS NOSER: And I also have the capability
24 to go secure and talk about the information if necessary
25 to whoever you need me to talk to.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MIKE NORRIS: Okay, and that is a, it's a
2 Steve?

3 CHRIS NOSER: The number that I gave you
4 is not a Steve.

5 MIKE NORRIS: Okay.

6 CHRIS NOSER: I can call back with a Steve.

7 MIKE NORRIS: Okay.

8 CHRIS NOSER: Unfortunately Steve here
9 doesn't have a phone number that I know of.

10 MIKE NORRIS: Okay, that's fine. All right,
11 let me see if I can go track this down.

12 CHRIS NOSER: Yes, I haven't sent it yet,
13 I was going to wait to confirm that somebody would be
14 there to receive it before I actually sent the information
15 over to the right people.

16 MIKE NORRIS: Yes, that would be good. Go
17 ahead and send it and then I'll go --

18 CHRIS NOSER: To that address?

19 MICHELLE RYAN: Yes, the HOO's and I'll go
20 talk to them and if I have any issues I'll call you back.

21 CHRIS NOSER: And this is, I'm going to
22 forward it to Greg Casto, extension Greg Casto.

23 MIKE NORRIS: Yes, Greg's off tonight --

24 CHRIS NOSER: Okay.

25 MIKE NORRIS: -- but I'll take care of it.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 CHRIS NOSER: Whoever the right lead is.

2 MIKE NORRIS: Exactly.

3 CHRIS NOSER: Okay, thanks.

4 MIKE NORRIS: Okay, bye.

5 CHRIS NOSER: All right, bye.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 23, 2011

Work Order No.: NRC-4222

Pages 1-22

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/13

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 WEDNESDAY,

8 MARCH 23rd, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N@QU2L03865094

(CONFERENCE CALL INITIATED)

JAY PATEL: Jay Patel.

NIMA ASHKEBOUSSI: Hi, Jay, it's Nima down in the Op Center.

JAY PATEL: Hey, Nima.

NIMA ASHKEBOUSSI: How you doing?

JAY PATEL: Good.

NIMA ASHKEBOUSSI: I just wanted to confirm with you that you are not going to be coming on Saturday?

JAY PATEL: Yes. Yes, I called in this morning and said I would not be able to make it, so.

NIMA ASHKEBOUSSI: Okay.

JAY PATEL: That's open.

NIMA ASHKEBOUSSI: And you're still coming in tomorrow though?

JAY PATEL: Yes, I'll come in tomorrow and then I'll be there on Sunday.

NIMA ASHKEBOUSSI: Okay, you're on on Sunday?

JAY PATEL: Yes.

NIMA ASHKEBOUSSI: Okay.

JAY PATEL: All right.

NIMA ASHKEBOUSSI: Are you able to take that Friday shift that I took from you?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JAY PATEL: Actually I already just made
2 plans.

3 NIMA ASHKEBOUSSI: Ah, okay. No problem,
4 we'll call somebody else.

5 JAY PATEL: I might know someone else that
6 might be able to do it, but did you really need to get
7 out of it?

8 NIMA ASHKEBOUSSI: I can't make it anymore.

9 JAY PATEL: Okay, because I Ryan, Ryan
10 Craffey. I think he's trying to work as a PM coordinator
11 as well.

12 NIMA ASHKEBOUSSI: Okay.

13 JAY PATEL: And he might be able to do it,
14 but we still have to get him in the system.

15 NIMA ASHKEBOUSSI: Okay, I'll have the
16 people down here start making calls then.

17 JAY PATEL: Okay, that's cool.

18 NIMA ASHKEBOUSSI: Okay, thanks, Jay.

19 JAY PATEL: All right, bye.

20 NIMA ASHKEBOUSSI: Bye.

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N0AG8603865094

(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: We are unable to take your call, please leave a message after the tone.

JAY RAY: Hi, this is a recorded line. This is John Wray at the Op Center calling for Jay Patel.

Jay, we're trying to verify that you'll be on shift, the 3:00 to 11:00 shift on Saturday the 26th, this Saturday. If you could call in or send us an email confirming that you're going to be able to do the swing shift we'd appreciate it. Thanks.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N4M!-_03865094

(CONFERENCE CALL INITIATED)

STEVEN GARRY: Steven Garry.

JOHN WRAY: Steven, voice from the past,
this is John Wray.

STEVEN GARRY: Hi, John.

JOHN WRAY: How are you doing?

STEVEN GARRY: I'm good, you?

JOHN WRAY: Yes, I'm actually calling you
on a recorded line from the Op Center.

STEVEN GARRY: Okay.

JOHN WRAY: And I got a question for you,
maybe you can point me in the right direction.

STEVEN GARRY: Okay.

JOHN WRAY: Got a question from Region 1
on who let's see here, let me pull it up here again exactly.
Who is the contact for us at the NRC in collecting the
RAD data from plants, environmental RAD data?

STEVEN GARRY: From the plants?

JOHN WRAY: You know, the semiannual or
annual environmental reports?

STEVEN GARRY: Well the reports all get
submitted by the licensees to the document control desk.

JOHN WRAY: Yes.

STEVEN GARRY: And from there I believe it

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 goes to the project managers. And we've got a request
2 in to the project managers over at document control desk
3 to be coped on those effluent environment reports.

4 JOHN WRAY: So it's actually in NRR it's
5 not FSME or anyplace else?

6 STEVEN GARRY: It's from the Nuclear Power
7 Plant, that's correct.

8 JOHN WRAY: Yes. So what's the name of your
9 organization, group?

10 STEVEN GARRY: We're in the division of
11 inspection and regional support.

12 JOHN WRAY: Okay.

13 STEVEN GARRY: We're in the Office of NRR,
14 right.

15 JOHN WRAY: Yes.

16 STEVEN GARRY: Division of inspection in
17 regional support.

18 JOHN WRAY: Yes.

19 STEVEN GARRY: And we're the inspection,
20 health physics and human performance branch.

21 JOHN WRAY: Oh, cool. All right, that might
22 answer the question.

23 STEVEN GARRY: Now, those reports --

24 JOHN WRAY: But in essence they get really
25 quickly looked at by the PM's and kind of just --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 STEVEN GARRY: Yes.

2 JOHN WRAY: -- put on a shelf right?

3 STEVEN GARRY: Well we publish them on the
4 web.

5 JOHN WRAY: Aw.

6 STEVEN GARRY: Or not published, we linked
7 them on the web.

8 JOHN WRAY: Does anybody actually look at
9 them for abnormalities and --

10 STEVEN GARRY: The regional inspectors use
11 them as part of their inspection process.

12 JOHN WRAY: Yes.

13 STEVEN GARRY: And we, Richard can answer,
14 is kind of our effluent lead.

15 JOHN WRAY: Yes.

16 STEVEN GARRY: And he will go through some
17 of them, some of the more, I don't know, more publically
18 sensitive ones.

19 JOHN WRAY: Sensitive ones, yes.

20 STEVEN GARRY: And just review them for his
21 own edification.

22 JOHN WRAY: Yes, I think I saw his name on
23 some of the emails going back and forth with the, apparently
24 some positive readings in Ginna and the Nine Mile Point.

25 STEVEN GARRY: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN WRAY: The last 24 hours.

2 STEVEN GARRY: Okay.

3 JOHN WRAY: Okay.

4 STEVEN GARRY: But now those reports are
5 annual reports.

6 JOHN WRAY: Yes. So when something comes
7 in that's a little abnormal?

8 STEVEN GARRY: Then they would possibly hit
9 a, the first thing we would officially see would be if
10 they hit a reporting level.

11 JOHN WRAY: Yes.

12 STEVEN GARRY: And those reporting levels
13 are laid out in their ODCM.

14 JOHN WRAY: Yes.

15 STEVEN GARRY: And if you want to look at
16 them they're in NUREG-1301 and 1302.

17 JOHN WRAY: Okay, yes.

18 STEVEN GARRY: And those are attributable
19 to the plant though, those aren't attributable to Japan.

20 JOHN WRAY: Right.

21 STEVEN GARRY: So if they started picking
22 up Iodine everywhere --

23 JOHN WRAY: Yes.

24 STEVEN GARRY: -- and did an evaluation and
25 found that that was from Japan, then that doesn't trigger

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 the reporting level.

2 JOHN WRAY: Right. But if it did get over
3 to the reporting level for their own purposes --

4 STEVEN GARRY: Yes.

5 JOHN WRAY: -- they would go into the document
6 control group and then eventually get to you guys?

7 STEVEN GARRY: Right, right.

8 JOHN WRAY: Okay.

9 STEVEN GARRY: And that reporting level
10 isn't a one time thing. That's averaged over the quarter.

11 JOHN WRAY: Yes, got it.

12 STEVEN GARRY: So if they get a spike they
13 wouldn't necessarily need to report it.

14 JOHN WRAY: Yes.

15 STEVEN GARRY: They would need to average
16 it over the quarter.

17 JOHN WRAY: Yes, okay. I guess we don't
18 have TOD's around the sites anymore, do we? We took --

19 STEVEN GARRY: We don't have NRC TOD's, no.

20 JOHN WRAY: Yes.

21 STEVEN GARRY: No, that program was
22 discontinued in --

23 JOHN WRAY: Yes, back in the 90's.

24 STEVEN GARRY: -- 90's, yes.

25 JOHN WRAY: Yes. Did that data come into

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 you guys too, NRR?

2 STEVEN GARRY: Richard Struckmeyer --

3 JOHN WRAY: Yes, yes, that's right. I
4 remember his name.

5 STEVEN GARRY: --was the lead of the program.
6 Now whether it came into NRR as a copy, I don't know.

7 JOHN WRAY: Yes.

8 STEVEN GARRY: But Richard was the most
9 recent person that ran that program.

10 JOHN WRAY: And he was back in Jose's combined
11 NMSS, right?

12 STEVEN GARRY: I believe that's correct.

13 JOHN WRAY: Yes, it is, okay. Steve, I
14 appreciate the info.

15 STEVEN GARRY: Okay, you're welcome, John.

16 JOHN WRAY: Talk to you later.

17 STEVEN GARRY: Okay.

18 JOHN WRAY: Bye.

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N-4W#_03865094

(CONFERENCE CALL INITIATED)

JOHN WRAY: His phones ringing.

AUTOMATED MESSAGE: Hi, this is Allen Gross,
I am unable to take your call right now. If you leave
your name and number I'll get back to you as soon as
possible. If you need a immediate assistance call Chris
McKenney at 301-415-6663. Thanks, bye.

JOHN WRAY: Allen, this is John Wray, this
is a recorded line, it's not a drill. We're in the Op
Center and you're scheduled for the day shift today starting
at 7 o'clock, which is ten minutes ago. We'd appreciate
it if you came to the Op Center, thanks.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N-6COL03865094

(CONFERENCE CALL INITIATED)

AUTOMATED MESSAGE: Hello, this is Chris McKenney chief of the performance assessment branch. I'm currently away from my desk, please leave a message and your name and number and I'll get back to you.

JOHN WRAY: Hi, Steve, my name is John Wray, this is a recorded line, I'm in the Op Center and we're trying to get in touch with Allen Gross. He's supposed to be on day shift today starting at 7 o'clock, which was about ten minutes ago and he's supposed to be reliving Allen Steve who's waiting here for turnover. We're wondering if you can get in touch with Allen or send a replacement please to the Op Center. Thank you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N44) 0603865094

(No words to transcribe)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N46YNL03865094

(CONFERENCE CALL INITIATED)

WILLIE LEE: NRC, Willie Lee.

JOHN WRAY: Willie Lee, this is John Wray.

WILLIE LEE: Hey, John.

JOHN WRAY: How you doing?

WILLIE LEE: Fine, how you doing back?

JOHN WRAY: Hey, actually I'm calling you from the Op Center so this is a recorded call but I got a question which hopefully you can help me out with since you're in FSME, right?

WILLIE LEE: Yes.

JOHN WRAY: And you're in the same group as Terry Reis?

WILLIE LEE: Yes.

JOHN WRAY: Actually I'm working for him today in the Op Center. But I, we got an email in, actually it's from Pam Henderson who I guess was in the Op Center up in Region 1, but they want to know who's in FSME that collects the radiation data in the United States I guess from all the power plants?

And she has in parenthesis, (MSSA). Again, I'm not putting you on the spot that you would know the answer to that but if you could give me a name or somebody maybe in FSME who I can --

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 WILLIE LEE: That collects radiation data
2 on --

3 JOHN WRAY: Yes, the data that the
4 environmental samples and all that kind of stuff that
5 the plants by tech specs are required to send in either
6 semiannually or annually.

7 WILLIE LEE: I'm trying to think, I don't
8 know off hand, John.

9 JOHN WRAY: Yes, I'm trying to think if
10 there's anybody you would know in FSME that I could keep
11 calling to finding the answer to that.

12 WILLIE LEE: I don't know right off hand
13 but maybe a couple people I can quiz real quick. Can
14 I call you back or would you prefer to keep calling some
15 other people? I can't answer the question, but I might
16 be able to help you narrow it down.

17 JOHN WRAY: Well if you can narrow it down,
18 let's see, the phone number here is 816-5195.

19 WILLIE LEE: 5195.

20 JOHN WRAY: Yes, 301-816-5195.

21 WILLIE LEE: John, let me check with a couple
22 people and I'll call you right back.

23 JOHN WRAY: Okay, thanks a lot. Appreciate
24 it.

25 WILLIE LEE: All right, bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%N432BL03865094

(No words to transcribe)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%NK1OK603865094

(CONFERENCE CALL INITIATED)

RICH TURTIL: Do you mind if I put it on
speak? You don't care, do you?

FEMALE PARTICIPANT: No.

RICH TURTIL: Well she maybe in her office
but she's not using her phone. Oh, phew.

AUTOMATED MESSAGE: Hi, this is Patricia
Milligan at the Nuclear Regulator Commission. I'm either
on the phone or away from my desk and I can't take your
call right now. So please leave me a message and I'll
--

RICH TURTIL: Hey, Trish, this is Rich Turtil
just trying to contact you. Yes, we're in the PMT and
we're just trying to be responsive to a request about
the whereabouts, possible within each state, of where,
about who has offered --

FEMALE PARTICIPANT: Who's offered KI.

RICH TURTIL: Oh, who is offered to give
KI to Japan?

FEMALE PARTICIPANT: Right.

RICH TURTIL: Oh, I didn't know that was
the query.

FEMALE PARTICIPANT: Yes.

RICH TURTIL: Okay, why don't we talk. Okay,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 that's a very different question. All right, I'm going
2 to hang up on you, I'll talk to you later. Bye.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

0%00KPG603865094

(CONFERENCE CALL INITIATED)

MIKE NORRIS: NRC Operation Center, this is a recorded line, Norris.

CHRIS NOSER: Hi, is Greg Casto there?

MIKE NORRIS: Greg's not here tonight.

CHRIS NOSER: Okay, he's got a night off, huh.

MIKE NORRIS: Yes, what a deal huh.

CHRIS NOSER: Yes, right. This is Chris Noser over at naval Reactors.

MIKE NORRIS: Hello.

CHRIS NOSER: Who else is there that I can just talk to about, I sent something on SIPR that I wanted to make sure went to --

MIKE NORRIS: When did you send it?

CHRIS NOSER: Maybe half an hour, 15 minutes, half hour ago.

MIKE NORRIS: Okay, I'll have to go over there and get it.

CHRIS NOSER: Yes, it's a combine data dump from some of the Air Force data. And you guys have gotten some of it in the past --

MIKE NORRIS: Yes, we got some --

CHRIS NOSER: Yes, this is all of it that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 we have to date to my knowledge and I'm trying to establish
2 kind of a baseline before, there's a couple of things
3 that I don't think you were forwarded before that I want
4 to make sure you have. It's at risk of bombarding with
5 paper --

6 MIKE NORRIS: Right.

7 CHRIS NOSER: -- it will just take a second
8 to go through and say, yes, this is new, this is old.
9 I just want to make sure somebody took a look at it
10 and we got a baseline here. And from now on, I'm only
11 forwarding out new information as it comes in.

12 MIKE NORRIS: Okay. Yes, I'll go ahead and
13 get the guys to pull it off of SIPRNet.

14 CHRIS NOSER: Okay.

15 MIKE NORRIS: And do you have a contact
16 number?

17 CHRIS NOSER: Yes --

18 MIKE NORRIS: I think I talked to you, did
19 I talk to you last night when you guys --

20 CHRIS NOSER: Yes, probably.

21 MIKE NORRIS: Okay.

22 CHRIS NOSER: I have been on this shift for
23 a week and a half now.

24 MIKE NORRIS: All right, 202 --

25 CHRIS NOSER: 781.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MIKE NORRIS: 781.

2 CHRIS NOSER: 6387.

3 MIKE NORRIS: 6387. You're name again?

4 CHRIS NOSER: Chris Noser.

5 MIKE NORRIS: Okay, that's right. Yes, I
6 did talk to you last night.

7 CHRIS NOSER: Yes. Okay, thanks.

8 MIKE NORRIS: All right, thank you.

9 CHRIS NOSER: All right, bye.

10 MIKE NORRIS: Bye.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

R

Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 24, 2011

Work Order No.: NRC-4222

Pages 1-19

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/14

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 THURSDAY,

8 MARCH 24th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%09F(I_03865094

(No words to transcribe)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%0903CL03865094

(No words to transcribe)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%OCTSIL03865094

(CONFERENCE CALL INITIATED)

LEE NICKEL: NARAC, this is Lee Nickel.

MIKE NORRIS: Hi, how you doing, this is Mike Norris with NRC Operations Center, this is a recorded line. I'm going through my list of things to do --

LEE NICKEL: Yes.

MIKE NORRIS: -- and we had a ticket from the 21st that said that Naval Reactors at this number is in the process of finding out information on the evacuation of pregnant female dependents from Japan. Do you know if that was actually done?

LEE NICKEL: What I can tell you is, no, we're not evacuating.

MIKE NORRIS: Okay. Also this said that you guys would provide information on --

LEE NICKEL: Hold on just one second.

MIKE NORRIS: Sure.

LEE NICKEL: Need to send a quick note. Okay, so let me tell you where we are.

MIKE NORRIS: Okay.

LEE NICKEL: We're doing voluntary departures which is different than evacuation.

MIKE NORRIS: Okay.

LEE NICKEL: For Navy dependents. Or,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 excuse me, Military dependents.

2 MIKE NORRIS: Um-huh.

3 LEE NICKEL: So if they want to leave they
4 can.

5 MIKE NORRIS: Right, okay.

6 LEE NICKEL: And we've, as of yesterday,
7 wait one, oh come on. Someone closed my file. As of
8 yesterday we had 11 flights leave with about 2,200
9 dependents on it.

10 MIKE NORRIS: Wow.

11 LEE NICKEL: And they're about 5,100 to go.

12 MIKE NORRIS: Okay.

13 LEE NICKEL: And there are 20 more flights
14 leaving in the next week or so.

15 MIKE NORRIS: All right. Okay, the other
16 thing on this ticket talked about, that you guys are
17 going to provide information on the co-work study for
18 dose reconstruction. Do you know anything about that?

19 LEE NICKEL: Cohort study?

20 MIKE NORRIS: Yes.

21 LEE NICKEL: What's the cohort study?

22 MIKE NORRIS: It's a type of observational
23 study. I don't know, I'm sure some rocket scientist is
24 figuring this out.

25 LEE NICKEL: Are you talking about the Air

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 Force data?

2 MIKE NORRIS: No, this is for dose
3 reconstruction. Trying to figure out, I mean, well I
4 don't, I mean they might be able to use the Air Force
5 data, but it's actually trying to figure out what people
6 were actually exposed to since they obviously don't have
7 dosimeters.

8 LEE NICKEL: Yes, I think (indiscernible,
9 possibly "UMID") is taking lead on pulling together the
10 dose reconstruction for our people.

11 MIKE NORRIS: Uh-huh, that's what we're,
12 right.

13 LEE NICKEL: And we're still working that.

14 MIKE NORRIS: Okay, all right. Well I'll
15 use the information that you've given me to close part
16 of the ticket.

17 LEE NICKEL: Yes, I mean we're, I can tell
18 you we're working on collecting names and where folks
19 have been and other things.

20 MIKE NORRIS: Right.

21 LEE NICKEL: However, we're still working
22 on exactly how and when we do internal monitoring.

23 MIKE NORRIS: Right. Yes, this whole thing
24 has been a pain. Okay, well thank you very much.

25 LEE NICKEL: Okay.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 MIKE NORRIS: All right, have a good one.

2 LEE NICKEL: Yes, bye.

3 MIKE NORRIS: Bye.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%OI5_HL03865094

(No words to transcribe)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%OI97!L03865094

(CONFERENCE CALL INITIATED)

STEVEN GARRY: Steven Garry.

JOHN WRAY: Steve Garry, how are you doing?

This is John Wray again.

STEVEN GARRY: Hey, John.

JOHN WRAY: I wonder if you can set me straight on something?

STEVEN GARRY: Okay.

JOHN WRAY: Maybe you can. Some of the information, I tried calling Rich up but he's not at his desk, he reported some numbers, not reported, but he pulled some numbers out of NUREG-1301, 1302.

STEVEN GARRY: Yes.

JOHN WRAY: Drinking water limits for I-131.

STEVEN GARRY: Right.

JOHN WRAY: It's like 2 picocuries per liter.

STEVEN GARRY: Right.

JOHN WRAY: Non-drinking was 20 picocuries per liter.

STEVEN GARRY: Right.

JOHN WRAY: Numbers are coming in from the sites that are anywhere between 16 and 27 or so picocuries per liter.

STEVEN GARRY: Right.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN WRAY: Rain water.

2 STEVEN GARRY: Right.

3 JOHN WRAY: That kind of thing.

4 STEVEN GARRY: You got that from Nine Mile
5 and --

6 JOHN WRAY: Yes, Nine Mile and Ginna and
7 --

8 STEVEN GARRY: Yes.

9 JOHN WRAY: -- Milestone has 26 picocuries
10 per liter, all that kind of stuff.

11 STEVEN GARRY: Where you getting all those
12 numbers?

13 JOHN WRAY: They're coming into the HOO and
14 I'm at the, in the Op Center.

15 STEVEN GARRY: Okay.

16 JOHN WRAY: So they're coming in that way.
17 We got a list of them. But question came up that trying
18 to do the idiot test and if we have the conversion correctly,
19 1 becquerel is certain or other.

20 The limits that we heard that Japan uses
21 for infants, is a 100 becquerels per liter. And I guess
22 it's 300 becquerels per liter for adults.

23 And if those numbers are correct, 100
24 becquerels per liter, if I'm doing my conversion correctly,
25 that comes out to be like 2,700 picocuries per liter

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 in site terms.

2 STEVEN GARRY: Yes.

3 JOHN WRAY: So our NUREG limits are for
4 drinking water like 2 picocuries per liter and Japan
5 is like a factor of almost 300 more than that or 3,000
6 more than that?

7 STEVEN GARRY: Yes. Just generally
8 speaking here, you know, I'd have to look at everything
9 specifically to give you a final answer, but I think
10 the things is, our reporting levels are basically based
11 on reporting related to Appendix I.

12 JOHN WRAY: Okay.

13 STEVEN GARRY: And our Appendix I has 15
14 millirem.

15 JOHN WRAY: Oh, okay.

16 STEVEN GARRY: And our reporting levels,
17 I believe, are half of that 15 millirem. So I think the
18 2 picocurie per liter would correlate to seven and a
19 half millirem.

20 JOHN WRAY: Yes.

21 STEVEN GARRY: Per year.

22 JOHN WRAY: Per year, yes. Where they're
23 2,700.

24 STEVEN GARRY: Yes, now the other thing here
25 to factor in is, I don't know the basis for their number.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN WRAY: Yes.

2 STEVEN GARRY: But when we look at Appendix
3 I we're talking about routine effluent releases. Meaning
4 that the Iodine is slowly but consistently being released
5 from a nuclear power plant.

6 JOHN WRAY: Yes.

7 STEVEN GARRY: They possible have said, well
8 this are short term releases. Iodine is going to decay
9 in eight days, half of it, and therefore they can have
10 a drinking water limit that's higher because the source
11 term is a puff release rather than a continuous release.

12 JOHN WRAY: Yes.

13 STEVEN GARRY: So that may have factored
14 into it.

15 JOHN WRAY: Do you know if we have any accident
16 release limits like that?

17 STEVEN GARRY: I am not aware of any.

18 JOHN WRAY: Yes. For like drinking water
19 and stuff like that. Okay, well that actually sounds
20 good. That's a good explanation.

21 STEVEN GARRY: But I don't know if it's,
22 I don't know the basis for their numbers.

23 JOHN WRAY: Right, right.

24 STEVEN GARRY: You know, I'm just saying
25 that's a possibility why they've gone to higher numbers.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOHN WRAY: Yes.

2 STEVEN GARRY: They are in the, I think
3 they're in the emergency dose limits for occupational
4 workers too. They're allowing 25 rem I think.

5 JOHN WRAY: Yes.

6 STEVEN GARRY: Occupational workers, that's
7 the best I can get from the news, you know. We're kind
8 of out of the loop on information.

9 JOHN WRAY: Oh, yes, I know.

10 STEVEN GARRY: We're getting information
11 mostly off of the news.

12 JOHN WRAY: Yes.

13 STEVEN GARRY: Which is a pretty poor source
14 of information.

15 JOHN WRAY: They're not that bad, they're
16 just a little late maybe.

17 STEVEN GARRY: So, you know, I hate to advise
18 you because I don't have that information to advise you
19 with.

20 JOHN WRAY: No, you jogged my memory and
21 my interest and I'm going to have to look up on many
22 action doses, you know.

23 STEVEN GARRY: Yes.

24 JOHN WRAY: I mean part 100 type doses, you
25 know, for the public.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 STEVEN GARRY: 100 --

2 JOHN WRAY: If we're setting at a 100
3 milligram per year for the public for normal operations
4 --

5 STEVEN GARRY: Right.

6 JOHN WRAY: -- I mean what's our site
7 criteria?

8 STEVEN GARRY: Now that's a 100 millirem
9 teddy.

10 JOHN WRAY: Yes, that's true.

11 STEVEN GARRY: Total effective dose
12 equivalent.

13 JOHN WRAY: Yes.

14 STEVEN GARRY: And you know, the thyroid
15 is a waiting factor. I think it's three percent, right?

16 JOHN WRAY: Is it?

17 STEVEN GARRY: Yes.

18 JOHN WRAY: Okay, yes.

19 STEVEN GARRY: So that's the other question
20 is, these numbers. Are we talking, what kind of dose
21 are we talking? Are we talking effective dose or organ
22 dose?

23 JOHN WRAY: Yes. And we don't know with
24 Japan. We just know that they're limits. That's true,
25 if our, and if that's teddy, that's total. That includes

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

--

STEVEN GARRY: Our public dose limit is only a 100 millirem teddy. We don't have a thyroid public dose limit.

JOHN WRAY: Yes, but if there's nothing else then that could be a 100 millirem --

STEVEN GARRY: Yes.

JOHN WRAY: -- pre voluntary organ.

STEVEN GARRY: Right. That bumped the number by 33 right there.

JOHN WRAY: Yes. It should go up to 3,000 millirem, yes. Okay. Hey, you've been a real help, I appreciate it.

STEVEN GARRY: Okay.

JOHN WRAY: Thanks a lot.

STEVEN GARRY: Okay.

JOHN WRAY: Bye.

STEVEN GARRY: Bye.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%OJ55J603865094

(CONFERENCE CALL INITIATED)

FEMALE PARTICIPANT: Whole in the Ground
Water and Drinking water.

JOHN WRAY: Hi, yes, my name is John Wray
with the Nuclear Regulatory Commission.

FEMALE PARTICIPANT: Um-huh.

JOHN WRAY: And I got a question you hopefully
can send me to the right person or right website. I'm
trying to find out the limit for drinking water for
Iodine-131?

FEMALE PARTICIPANT: Iodine-131, hold on
one second for me.

JOHN WRAY: Okay.

AUTOMATED MESSAGE: You have reached the
desk of Joyce Donahue at the U.S. Environmental Protection
Agency. I am either on the telephone or away from my
desk. Please leave your phone number and I will return
your call when I get back. Thank you.

At the tone, please record your message.
When you are finished recording, hang up or press pound
for more options.

JOHN WRAY: Hi, my name is John Wray, W-R-A-Y,
with the Nuclear Regulatory Commission and I just had
a quick question. I'm trying to hunt down the drinking

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 water limit, the EPA drinking water limit for I-131.

2 If you could either get me that information
3 or send me to the proper document on the web I'd appreciate
4 it. I can be reached at 301-816-5195. And again, the
5 name is John Wray. Thank you.

6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%OL!Y4_03865094

(CONFERENCE CALL INITIATED)

JOHN WRAY: NRC, John Wray speaking.

JOYCE DONAHUE: Yes, John, this is Joyce Donahue for EPA calling you back.

JOHN WRAY: Hi, appreciate that.

JOYCE DONAHUE: Oh, no problem. I hate to tell you when you don't have something.

JOHN WRAY: Yes, I think I found that out. Yes, it think it's four --

JOYCE DONAHUE: Oh, okay, because --

JOHN WRAY: I think it's 4 millirem by beta emitters and all that kind of --

JOYCE DONAHUE: Yes, we just have that, okay.

JOHN WRAY: Yes, yes, not a problem.

JOYCE DONAHUE: Okay.

JOHN WRAY: Thanks for calling back, I appreciate it.

JOYCE DONAHUE: I think I know why you're calling, so.

JOHN WRAY: Yes, I'm in the Op Center here.

JOYCE DONAHUE: Yes.

JOHN WRAY: And I think I should tell you it's probably a recorded call, but no problem. I appreciate you calling back.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 JOYCE DONAHUE: Okay.

2 JOHN WRAY: But we got the, well we got an
3 answer.

4 JOYCE DONAHUE: You got the beta emitter
5 information?

6 JOHN WRAY: Yes.

7 JOYCE DONAHUE: Okay.

8 JOHN WRAY: Thanks.

9 JOYCE DONAHUE: Bye-bye.

10 JOHN WRAY: Very good, bye.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 25, 2011

Work Order No.: NRC-4222

Pages 1-8

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/15

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 FRIDAY,
8 MARCH 25th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%PQ046603865094

(CONFERENCE CALL INITIATED)

RANDY SULLIVAN: Randy Sullivan, PMT NRC
Headquarters.

LOU BRANDON: Hey, Randy, Lou Brandon.

RANDY SULLIVAN: Hey, Lou.

LOU BRANDON: Is Mike Norris on right now?

RANDY SULLIVAN: Yes, he is on.

LOU BRANDON: Could I speak to him please?

RANDY SULLIVAN: He's not here, I think he's
out for a smoke.

LOU BRANDON: Oh, all right.

RANDY SULLIVAN: You got a number or you
want to call him in a few minutes?

LOU BRANDON: Yes.

RANDY SULLIVAN: He's been sitting here all
night.

LOU BRANDON: Okay, you can have him call
me back at (b)(6)

RANDY SULLIVAN:

LOU BRANDON:

RANDY SULLIVAN: (b)(6)

LOU BRANDON:

RANDY SULLIVAN:

LOU BRANDON: We just need to work out the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 schedule for tonight.

2 RANDY SULLIVAN: For tonight, okay.

3 LOU BRANDON: Yes.

4 RANDY SULLIVAN: Okay, man.

5 LOU BRANDON: Thanks, Randy.

6 RANDY SULLIVAN: Sure thing, bye.

7 LOU BRANDON: All right, bye.

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

0%Q8QJB603865094

(CONFERENCE CALL INITIATED)

LEE: Hello, this is Lee.

RYAN CRAFFEY: Hello?

LEE: Hello, this is lee.

RYAN CRAFFEY: Hi, Lee, my name is Ryan Craffey. I am the coordinator for the Protective Measures Team at the NRC Incident Response Center.

LEE: Yes.

RYAN CRAFFEY: I just wanted to call you, I've got some air sample results from a few power plants here.

LEE: Okay.

RYAN CRAFFEY: And I was told to forward them onto you.

LEE: Sure, would you like an email, that would be good to use for these in general?

RYAN CRAFFEY: Yes, that would be great.

LEE: It will be one of our desk emails.

RYAN CRAFFEY: Sure.

LEE: It's E-O-C, like Emergency Operations Center, but the initials E-O-C space environmental --

RYAN CRAFFEY: Space?

LEE: Space unit@ --

RYAN CRAFFEY: I'm sorry?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 LEE: -- epa.gov. And if you want to send
2 a test message, let's make sure that works for you?

3 RYAN CRAFFEY: Okay, I'm sorry, can you
4 repeat it again? It was E-O-C space?

5 LEE: Yes, environmental space unit, U-N-I-T,
6 @epa.gov.

7 RYAN CRAFFEY: Okay, I didn't know you could
8 put a space in an email. Let me give it a try.

9 LEE: It might be one of those underline
10 things. I can't tell when I look.

11 RYAN CRAFFEY: Okay, I'm going to try first
12 with the underline, because I've never seen --

13 LEE: Yes, that makes more sense.

14 RYAN CRAFFEY:
15 eoc_envirnomenta_unit@epa.gov?

16 LEE: Yes, let's try that. And I'll get
17 the system on here to make sure I can see it. Hang on.
18 And we're just shutting down for the night, but we can
19 look at this in the morning.

20 RYAN CRAFFEY: Of course, anything would
21 be --

22 LEE: Can you do me a favor? Can you copy
23 my email on it? I am EOC manager, it's my email, same
24 format as the other but just manager instead of
25 environmental unit.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 RYAN CRAWFEEY: Okay, eoc_manager --

2 LEE: Yes.

3 RYAN CRAWFEEY: -- @epa.gov.

4 LEE: @epa.gov.

5 RYAN CRAWFEEY: Certainly. Okay, how often
6 have we been reporting this data to you? I have probably
7 two or three dozen readings here. Did you want me to
8 send all of them or just the most recent?

9 LEE: We've been getting some, my person
10 that can tell me exactly isn't here, so you can just
11 go ahead and send it all --

12 RYAN CRAWFEEY: Okay. Yes, I can send you
13 the entire excel file we've got.

14 LEE: Okay.

15 RYAN CRAWFEEY: That we keep update and I
16 suppose I'll put a note in here for the coordinators
17 to, you know, end of the shift or something send you
18 an update everyday.

19 LEE: Yes, now --

20 RYAN CRAWFEEY: With what you get.

21 LEE: -- also, let me ask you this.

22 RYAN CRAWFEEY: Uh-huh.

23 LEE: I had heard rumors today from one of
24 our guys down in North Carolina that the plants in North
25 Carolina, South Carolina, Florida had seen it and North,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 then they or the State of North Carolina was considering
2 doing a press release. I have no idea as to any of that.

3 RYAN CRAFTY: Okay, we have not received
4 anything --

5 LEE: Okay.

6 RYAN CRAFTY: -- from the Southern plants
7 yet. And mostly, I mean, it's almost exclusively the
8 Western plants.

9 LEE: Yes.

10 RYAN CRAFTY: And actually a few of the
11 Northeast plants too.

12 LEE: Yes.

13 RYAN CRAFTY: But nobody from down South,
14 yet. So I can't confirm.

15 LEE: You may hear soon some brew haha there,
16 I don't know.

17 RYAN CRAFTY: Okay.

18 LEE: But there were reports in Anita Bay
19 that they were alarming, which still means low level.

20 RYAN CRAFTY: Yes. Yes, measuring --

21 LEE: (Inaudible). Otherwise we'd have
22 immediate issues with one plant, but --

23 RYAN CRAFTY: Okay, well we'll keep our
24 ears open for them as well.

25 LEE: Okay, thanks.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 RYAN CRAFTY: And we will forward this to
2 you on a daily basis, is that fine? Or would you like
3 it more often?

4 LEE: Okay, thanks. Daily is fine.

5 RYAN CRAFTY: Okay, sounds good, will do.

6 LEE: Okay, bye.

7 RYAN CRAFTY: Take care there, bye.

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 26, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/16

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 SATURDAY,

8 MARCH 26th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (No audio was recorded on the
2 above-referenced phone line on the above-referenced
3 date.)
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 27, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/17

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 SUNDAY,

8 MARCH 27th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

(No audio was recorded on the
above-referenced phone line on the above-referenced
date.)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 28, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

E0/18

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 MONDAY,
8 MARCH 28th, 2011

9 + + + + +
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

(No audio was recorded on the
above-referenced phone line on the above-referenced
date.)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 29, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

EO/19

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 TUESDAY,

8 MARCH 29th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

(No audio was recorded on the
above-referenced phone line on the above-referenced
date.)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT State Interface Audio Files

Docket Number: N/A

Location: N/A

Date: March 30, 2011

Work Order No.: NRC-4222

Pages 1-2

NEAL R. GROSS AND CO., INC.
Court Reporters and Transcribers
1323 Rhode Island Avenue, N.W.
Washington, D.C. 20005
(202) 234-4433

E0/20

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 JAPAN'S FUKUSHIMA DAIICHI
5 PMT STATE INTERFACE AUDIO FILES

6 + + + + +

7 WEDNESDAY,

8 MARCH 30th, 2011

9 + + + + +

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 (No audio was recorded on the
2 above-referenced phone line on the above-referenced
3 date.)
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com