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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT DOE Audio Files

Docket Number: N/A

Location: N/A

Date: March 11, 2011

Work Order No.: NRC-4222

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4 JAPAN'S FUKUSHIMA DAIICHI

5 PMT DOE AUDIO FILES

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7 FRIDAY,

8 MARCH 11, 2011

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7 SATURDAY,

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7 SUNDAY,

8 MARCH 13, 2011

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7 MONDAY,

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7 TUESDAY,

8 MARCH 15, 2011

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7 WEDNESDAY,

8 MARCH 16, 2011

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7 THURSDAY,

8 MARCH 17, 2011

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[0%F7MS(L03565094]

MALE PARTICIPANT: (indiscernible,
possibly "to the west").

MALE PARTICIPANT: Time window when the
(indiscernible, "possibly wind").

MR. SCHRADER: 7-0-2.

MALE PARTICIPANT: (indiscernible,
possibly "were tracking").

MR. SCHRADER: 7-9-4.

MALE PARTICIPANT: 7-9-4. 1-6-6-5.

(Phone begins to ring.)

INGA: (indiscernible, possibly "reached")
Operation Center, this is Inga.

MR. SCHRADER: Hi, Inga, this is Eric
Schrader. This is the NRC Operations Center, and this
is a recorded line. I'm a member of the Protective Measures
Team, and we're looking at an aerial monitoring results
exposure rate map --

INGA: Okay.

MR. SCHRADER: -- from your group.

And we're looking at the C-12 aerial data
exposure rate legend that's on the side of it. Those
colors that we're seeing, are those expected measurements
at ground level, or are those the measurements that the

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1 instrument saw at 1,000 feet?

2 INGA: Let me get you someone that can answer
3 that question. Can you hold for just a moment?

4 MR. SCHRADER: Yes, I can.

5 INGA: Okay, thank you.

6 MR. SCHRADER: Thanks.

7 She's going to get me somebody that knows.

8 MALE PARTICIPANT: How are those in general
9 typically made, that --

10 MALE PARTICIPANT: Yes, but you see that
11 -- these are like --

12 MALE PARTICIPANT: They generally --

13 FEMALE PARTICIPANT: (indiscernible,
14 possibly "Pilip Paseep").

15 MR. SCHRADER: Hello.

16 FEMALE PARTICIPANT: Hi.

17 MR. SCHRADER: Hi.

18 FEMALE PARTICIPANT: Can I help you?

19 MR. SCHRADER: I hope so. My name's Eric
20 Schrader, and I'm at the NRC Operations Center as part
21 of the Protective Measures Team. This is a recorded
22 line, I guess I'm supposed to tell you that.

23 I'm looking at the aerial monitoring results
24 of --

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1 FEMALE PARTICIPANT: Okay, when -- can you
2 tell me where you -- which -- where you got these results?

3 MR. SCHRADER: They came email to us.

4 FEMALE PARTICIPANT: Okay.

5 MR. SCHRADER: And it's for the Japan event.

6 FEMALE PARTICIPANT: Okay.

7 MR. SCHRADER: And all I want to know is
8 how the legend works.

9 FEMALE PARTICIPANT: Okay, there are several
10 maps. You're going to have to tell me which one you're
11 looking at. What's the title?

12 MR. SCHRADER: Fukushima Daichii Japan.
13 I don't see any -- map created 3/17/2011, 5:33 a.m. Pacific
14 Standard Time.

15 FEMALE PARTICIPANT: Is there a title and
16 a blue block at the top of the map?

17 MR. SCHRADER: Aerial monitoring results
18 exposure rate.

19 FEMALE PARTICIPANT: Okay. And you say --
20 okay, and you have a question about the legend.

21 MR. SCHRADER: Right, the values that are
22 listed there, are those the values expected to be seen
23 on the ground, or are those the values that the detector
24 saw at 1,000 feet?

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1 FEMALE PARTICIPANT: They are expected to
2 be seen on the ground.

3 MR. SCHRADER: Okay, that's what I thought.
4 All right. That's it.

5 FEMALE PARTICIPANT: Thank you.

6 MR. SCHRADER: Thanks. Bye.
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VOICEMAIL SYSTEM: The party you have called
-- "John Scott" -- at extension 8-6-2-2-2 is busy. You
may leave a message or transfer to another extension.

To leave a message, begin speaking at the
tone. When you have finished, push star then pound,
or just hang up.

To transfer out of expressions push zero.

MR. SCHRADER: Hi, Mr. Scott, this is Eric
Schrader. You called me a little while ago.

This is the NRC Ops Center, and this is a
recorded line.

I don't have anything that I can send you.
Unfortunately, I don't have any IAEA dose assessments.
If they're doing them, they're not sending them to any
location that I know of.

I apologize that right now, as you've seen
on the news, information is at a premium, and it's pretty
hard to get ahold of.

All right. Bye.

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5 PMT DOE AUDIO FILES

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7 FRIDAY,

8 MARCH 18, 2011

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7 SATURDAY,

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7 SUNDAY,

8 MARCH 20, 2011

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7 MONDAY,

8 MARCH 21, 2011

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7 TUESDAY,

8 MARCH 22, 2011

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[0%L_GT(L03565094]

(Phone rings.)

VOICEMAILSYSTEM: Hi, you've reached George
Athey of Athey Consulting. I'm out of the office right
now, but if you leave me a message, I'll get back to
you as soon as --

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(Phone rings.)

VOICEMAIL SYSTEM: Your call has been forwarded to an automatic voice message system. George Athey is not available.

At the tone, please record your message.

When you have finished recording, you may hang up or press 1 for more options.

MR. SCHRADER: Hi, George. This is Eric Schrader at the Ops Center, PMT Group. Had a question for you about how RASCAL uses sprays on and sprays off.

If you could give me a call please at the Ops Center, extension 5408, I'd appreciate it.

Thanks. Bye.

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(Phone rings.)

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To access INPO's employee directory, press
1. To access the INPO emergency notification telephone
system, press 2.

Please wait.

(Phone rings.)

Press 1 to leave a message for the on-duty
emergency coordinator. They will return your call
promptly.

Please wait.

(Phone rings.)

Please leave your name, call back number,
and station name at the tone. Your call will be returned
promptly.

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[0%NN356L03565094]

(Phone rings.)

PHONE SYSTEM: Thank you for calling the Institute of Nuclear Power Operations. INPO offices are currently closed. Please select one of the following choices.

To access INPO's employee directory, press 1. To access the INPO emergency notification telephone system, press 2. If you need assistance --

Please wait.

(Phone rings.)

Press 1 to leave a message for the on-duty emergency coordinator. They will return your call promptly.

Transferring to an operator. Please wait.

(Phone rings.)

Please leave your name, call back number, and station name at the tone. Your call will be returned promptly.

MR. SUN: Hi, my name is Casper Sun. My call back number is 301-816-5100. This is U.S. NRC PMT Headquarters, and I'm looking for someone can talk to in your unit and look forward to hear your call. My -- my -- now it's 7:41 p.m.

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1 Thanks you. Again, my name is Casper Sun,
2 or you can call Dr. Sun. Thanks. Bye-bye.
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Please wait.

(Phone rings.)

Press 1 to leave a message for the on-duty emergency coordinator. They will return your call promptly.

Transferring to an operator. Please wait.

(Phone rings.)

Please leave your name, call back number, and station name at the tone. Your call will be returned promptly.

DR. SUN: Hi, my name is Casper Sun, and this is my second call. I'm afraid I did not make myself clear for the first call. And I'm calling from U.S. NRC Headquarters, emergency headquarters, and I'm in the station -- the phone number here is 301-816-5100,

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1 and I can be reached at the PMT 11 desk.

2 My name's Casper Sun. I'd like to talk with
3 somebody in charge of the emergency for the Japanese
4 event. Okay, talking to you soon. Bye-bye.

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Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Japan's Fukushima Daiichi
PMT DOE Audio Files

Docket Number: N/A

Location: N/A

Date: March 24, 2011

Work Order No.: NRC-4222

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5 PMT DOE AUDIO FILES

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7 THURSDAY,

8 MARCH 24, 2011

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VOICEMAILSYSTEM: Hi, you've reached George
Athey of Athey Consulting. I'm out of the office right
now, but if you leave me a message, I'll get back to
you as soon as I can. Thanks.

MS. GAMBONE: Hi, George, it's Kimberly
Gambone at the NRC Operations Center. I'm just calling
to let you know we have a couple new errors for you,
fatal errors. Nothing that you need to call back on
right now, I don't think. You may be going on leave
is what I hear. In which case, I think I'll call your
cell phone and see how you're doing.

Talk to you later. Bye.

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(Phone rings.)

MALE PARTICIPANT: Okay, I think he's just saying that Lou had --

(Phone rings.)

MALE PARTICIPANT: -- over time.

(Phone rings.)

VOICEMAIL SYSTEM: Your call has been forwarded to an automatic voice message system. George Athey is not available.

At the tone, please record your message.

When you have finished recording, you may hang up or press 1 for more options.

MS. GAMBONE: George, hello, it's Kimberly Gambone at the U.S. NRC Operations Center calling you with a report of a couple new RASCAL errors that we have.

I hear also that you may be going on annual leave or vacation, in which case I will definitely call you back and see how that's going.

Talk to you later. Bye.

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Title: Japan's Fukushima Daiichi
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Docket Number: N/A

Location: N/A

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7 FRIDAY,

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(Phone rings.)

FEMALE PARTICIPANT: You're two --

(Phone rings.)

VOICEMAIL SYSTEM: Hi, you have reached David Brown in the Siting and Accident Consequences Branch at the NRC. I'm away from my desk. Please leave a message after the beep.

MR. SCHRADER: Hi, Dave, this is Eric Schrader at the Accident Assessment Center and PMT Group.

I'm looking at the graph that you created that equates Daiichi front gate radiation readings to dates and times.

If you could -- I've got some questions about it. If you could give me a call. I guess you'll have to go through the Ops Center and then to like 5408. That'd be great.

Or if you've got time just walk on by. Thanks.

Bye.

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7 SATURDAY,

8 MARCH 26, 2011

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(Phone rings.)

MALE PARTICIPANT: NRC Operations Center.

This is a recorded line. How may I help you?

MR. ROACH: This is Ed Roach. I'm one of the dose assessors.

MALE PARTICIPANT: (indiscernible, possibly "at the event").

MR. ROACH: Who's this?

MALE PARTICIPANT: Howie, what's up

MR. ROACH: Oh, how are you doing?

MALE PARTICIPANT: Good.

MR. ROACH: Hey, I need to get a hold of Lou Brandon at home.

MALE PARTICIPANT: Got it.

MR. ROACH: Could you call him at home?

MALE PARTICIPANT: I can.

MR. ROACH: And he's going to be coming in tonight, but --

MALE PARTICIPANT: But you need him now.

MR. ROACH: Yeah, unfortunately. Yeah.

MALE PARTICIPANT: Okay, there's nothing we can help you with back here?

MR. ROACH: It's -- we have a question about

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1 the computer program we use for dose assessment, and
2 he's the point of contact for us.

3 MALE PARTICIPANT: Okay, I -- let me call
4 him at home, or I'll connect you, and --

5 MR. ROACH: Okay.

6 MALE PARTICIPANT: Hold on.

7 MR. ROACH: Thank you, sir.

8 MALE PARTICIPANT: Yup. Let me -- you're
9 at 5408, right?

10 MR. ROACH: Let me see. Yeah, I must be.
11 Yes.

12 MALE PARTICIPANT: Okay, I'll call you right
13 back once I get Lou.

14 MR. ROACH: Okay, thank you.

15 MALE PARTICIPANT: Uh-huh. Bye.

16 MR. ROACH: Bye.
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MR. ROACH: Ed Roach.

MR. BRANDON: Hey, Ed. It's Lou.

MR. ROACH: Hey, Lou, how you doing?

MR. BRANDON: I'm doing pretty good. How are you doing?

MR. ROACH: I'm -- we're having fun. We're having fun. Steve Lavie has a question that we're trying to figure out, and we think there might be an issue within RASCAL. So let me put him on to discuss with you.

MR. BRANDON: Okay, Ed. Thanks.

MR. LAVIE: Yo, Lou, (b)(5)

(b)(5)

Okay, I looked at the data. I looked at the print-outs, and it appears that there is, does seem to be some sort of a disconnect because -- and one of the things we're seeing, for instance, is xenon-133 for Unit 1 was 7.5 times ten to the sixth. It was 2.09 ten to the seventh for E, okay.

Well xenon-133 is coming out to be 33 percent

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1 of the release.

2 FEMALE PARTICIPANT: There's no logical
3 reason for --

4 MR. BRANDON: Okay.

5 MR. LAVIE: There seems to be something wrong
6 with the way we're modeling this. We're at an impasse
7 at the moment. We don't have an explanation for this
8 at all. Because it makes sense, if you have 33 -- you
9 know, if you have 33 percent and a hundred -- 33 percent
10 core damage and 100 percent release, you would expect
11 to see something more than 1 percent.

12 MR. BRANDON: Yeah, so there's two things
13 to consider there. You can model in the source term
14 part of RASCAL, basically we can finagle it to model
15 33 percent core melt.

16 MR. LAVIE: Well that was what was done.

17 MR. BRANDON: And then in the release pathway,
18 you have switches to allow the release to occur at a
19 slow rate, like design rate leak basis, or very fast
20 like 100 percent failure --

21 MR. LAVIE: But see that doesn't address
22 the problem we're seeing, is that the way this is being
23 modeled is the way everybody agreed to it, okay, you
24 know, putting back -- using some graph to come up with

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1 how much uncovering you need, and 100 percent per day leakage
2 for Unit 3, ten percent per day for Unit 1, and that
3 half-inch hole for Unit 2.

4 MR. BRANDON: Okay.

5 MR. LAVIE: Yet when you look at the data,
6 all of the releases, with the exception of xenon-133,
7 are only one percent of the total. The xenon-133 numbers
8 for all three sources are about a 30 percent each.

9 MR. BRANDON: About three percent?

10 MR. LAVIE: Thirty percent. Xenon-133 is
11 the only number that seems to be supporting the fact
12 that that release is as significant as it is in the other
13 units. But why just xenon-133?

14 Why are the iodines and everything else only
15 one percent of the release?

16 MR. BRANDON: Is that the one with the hole?

17 MR. LAVIE: That's -- no, that's not the
18 one with the hole. This is the one with 100 percent
19 release.

20 They assumed 100 percent containment
21 release.

22 MR. BRANDON: 100 percent, 100 percent per
23 day.

24 MR. LAVIE: Per day.

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1 MR. BRANDON: Yeah, so that's a little slower
2 than 100 percent per hour. Yeah, so what's going on?

3 I --

4 MR. LAVIE: (b)(5)

5 (b)(5)

6
7
8
9 NARAC's been running code runs against this.

10 (b)(5)

11
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13
14
15 Now do we need (indiscernible, possibly
16 "Gerardaisee")? What do we need to do here, Lou?

17 Because we've looked at their runs, and the
18 runs were put in, as far as we can tell, correctly.
19 We don't see a reason why the results are coming out
20 apparently abnormal as the way they are.

21 MR. BRANDON: Yeah, I hear what you're saying.

22 I'm not sure --

23 MR. LAVIE: Okay, interestingly enough, one
24 of the things is the total release from each of these

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1 units, okay, is very similar to what, you know, they're
2 all coming out at a random number. But what you notice
3 is the total is 8.53 times ten to the sixth, and 7.5
4 times ten to the sixth. Xenon-133 is part of that. Why
5 is the xenon-133 driving the total?

6 MR. BRANDON: Well, xenon-133 has always
7 been a high activity contributor.

8 MALE PARTICIPANT: -- they make sure they
9 verify with us and see if I can -- the assumption.

10 MR. BRANDON: Okay, I think --

11 MR. LAVIE: Okay, then why isn't it the high
12 contributor?

13 MR. BRANDON: Why is it a high contributor?
14 Shoot, I'd have to go back --

15 MR. LAVIE: No, I understand -- right.

16 MR. BRANDON: You might have to go back to
17 NUREG-1465 and see --

18 MR. LAVIE: Okay, but I don't think that
19 answers it because (b)(5)

20 (b)(5)

21
22
23
24 MR. BRANDON: They were modeled the same

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1 way?

2 MR. LAVIE: Same -- well the same, in essence,
3 methodology, the 33 percent core damage modeled as a
4 decay time, core uncover time. At two -- a 48 hour release.

5 MR. BRANDON: Yeah, they were different
6 start times I think in some of those. I'm not sure --

7 MR. LAVIE: Well, yeah but the start time
8 can't be that much difference.

9 MR. BRANDON: Then I think probably --

10 MR. LAVIE: The half-life of iodine-131 is
11 greater than the half-life of xenon-133. Why is 131
12 only showing up one percent? Why is iodine-131 showing
13 up as only one percent for Unit 2 -- Unit 3?

14 MR. BRANDON: Well, there are some reduction
15 mechanisms in there. The sprays are on, you know, that
16 --

17 MR. LAVIE: But with 100 percent release
18 and there's no sprays in any of these cases --

19 FEMALE PARTICIPANT: (indiscernible,
20 possibly "somebody") --

21 MR. BRANDON: Okay. That's what I thought.

22 MALE PARTICIPANT: They are.

23 FEMALE PARTICIPANT: (indiscernible,
24 possibly "seeing through the") --

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1 MR. LAVIE: You'd assume there'd be no hold
2 up of iodine with 100 percent.

3 FEMALE PARTICIPANT: I could do it, but I
4 mean I don't know what the (indiscernible, possibly "R
5 is for breathing in").

6 MR. BRANDON: Well, how much is there to
7 start with. It's --

8 FEMALE PARTICIPANT: I don't know how --

9 MR. LAVIE: They're not -- there's not that
10 much difference.

11 MR. BRANDON: Xenon-133 is --

12 FEMALE PARTICIPANT: But maybe I'm --

13 MR. BRANDON: Always been one of the big
14 contributors from the beginning of the (indiscernible,
15 possibly "first event"). I guess I have to look at the
16 detail --

17 MR. LAVIE: Well, I think that's what's
18 needed (b)(5)

19 (b)(5)
20

21 FEMALE PARTICIPANT: (indiscernible,
22 possibly "Someone's porbably") --

23 MR. BRANDON: All right, so you want me to
24 come in right now?

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1 MR. LAVIE: Well, I -- you and George --
2 you or George Athey or both of you. I really think we
3 need to get a resolution to this.

4 Cathy? Cindy? We have to resolve this,
5 right?

6 FEMALE PARTICIPANT: Yeah, we have to, like

7 --

8 MR. LAVIE: And we have a problem, (b)(5)

9 (b)(5)

So we need to get the people who

10 do --

11 FEMALE PARTICIPANT: We're trying to be on
12 a plane --

13 MR. BRANDON: Okay. All right. Well --

14 FEMALE PARTICIPANT: I can try.

15 MR. LAVIE: Here, I'm going to let you talk
16 to Cindy.

17 FEMALE PARTICIPANT: Hey there, Lou, how
18 you doing?

19 MR. BRANDON: Hi, Cindy.

20 FEMALE PARTICIPANT: Hi. Say, I'm just
21 wondering if we can call in George or someone -- I know
22 you're supposed to be on later tonight, and we're sorry
23 to bother you, but this is a rather urgent issue.

24 (b)(5)

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(b)(5)

MR. BRANDON:

(b)(5)

FEMALE PARTICIPANT: I mean, for the reasons that Steve just went over on the phone with you.

FEMALE PARTICIPANT: Reactor 3 --

MR. BRANDON: Well, I'm not sure I'm clear on why that's -- why it's a problem that xenon is a large percentage of the total release. It's always been like that.

FEMALE PARTICIPANT:

(b)(5)

(b)(5)

MR. BRANDON: Well, I think if you go back to the original source, the way the source term is defined, it will show you that xenon is a large percentage --

FEMALE PARTICIPANT: I'm just saying that the three HPs we have here --

MALE PARTICIPANT: Assuming 100 percent

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1 release --

2 FEMALE PARTICIPANT: -- have a concern with
3 it. So I'm just trying to see if -- we don't have George's
4 number. Is -- I understand he's on call. Is that correct?
5 Is it possible --

6 MR. BRANDON: Well, he's been telling us
7 for a long time (b)(6)

8 He has to leave on Friday, so he might not be available.
9 You can try calling him, and his number should be posted
10 there by the dose assessors. They've been calling him
11 all week.

12 FEMALE PARTICIPANT: Nobody knew where it
13 was. That's half the reason we called you.

14 MR. BRANDON: Well --

15 FEMALE PARTICIPANT: Do you have his --

16 MR. BRANDON: I think if you look around
17 the right -- I can pull it out of my wallet here.

18 MALE PARTICIPANT: But right now these
19 numbers are being based on atmospheric --

20 FEMALE PARTICIPANT: Otherwise, I think the
21 folks that did the original runs and/or yourself as the
22 PM for this is going to have to come in and see if we
23 can resolve it (b)(5)

24 MR. BRANDON: Well, I can come in, but there's

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1 no guarantee that I can figure out what's going on

(b)
(5)

2 (b)(5)

3 FEMALE PARTICIPANT: Yeah, and the folks
4 here are not able to do that. Who's your best dose assessor
5 person, and we'll call him in.

6 MR. BRANDON: Well, they're not going to
7 know either, Cindy. If I can't figure it out, they're
8 not going to know what's going on.

9 FEMALE PARTICIPANT: Okay.

10 MR. BRANDON: Here's George Athey's number.

11 FEMALE PARTICIPANT: Okay. Whoops, pen is
12 not working.

13 MR. BRANDON:

(b)(6)

14 FEMALE PARTICIPANT:

(b)(6)

15 MR. BRANDON:

(b)(6)

16 FEMALE PARTICIPANT: Hold on one second.

17 MR. BRANDON: And his cell number --

18 FEMALE PARTICIPANT: Wait, hold on.

(b)(6)

19 Okay.

20 MR. BRANDON: Cell number is

(b)(6)

21 FEMALE PARTICIPANT: Well, it's Saturday
22 already right? So you said he

(b)(6)

23 MR. BRANDON: I didn't say he left. I said
24 he may have left.

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1 FEMALE PARTICIPANT: He was going -- okay.

2 MR. BRANDON: So you might be able to get
3 a hold of him, but you should characterize the problem

4 (b)(5)

5 (b)(5)

I'll come in and look at it.

6 FEMALE PARTICIPANT: Okay. I appreciate

7 --

8 MR. BRANDON: He's not --

9 FEMALE PARTICIPANT: I mean --

10 MR. BRANDON: He's not going to be able to
11 help unless you can explain to him a little bit better
12 what's going on.

13 FEMALE PARTICIPANT: Steve, can you put up
14 the question that's on there from (b)(6)

15 MALE PARTICIPANT: I'm willing to get the
16 (indiscernible, possibly "free center") to do that.

17 FEMALE PARTICIPANT: I'm just wondering if
18 we could give Bruce a call and have him come in too.

19 He said in reviewing the information you
20 provided, which was the run, he noted that the release
21 from Unit 3 was only one percent of the total release,
22 except for xenon-133. It's puzzling because the
23 description of Unit 3 is 100 percent per day, while the
24 Unit 1 release is ten percent per day. Were the columns

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1 labeled incorrectly?

2 His question is why is it such a discrepancy.

3 And the guys here have looked at it, and we need a little
4 help on this.

5 So either the code is wrong or how it was
6 put in is wrong. Now the guys are re-running it to
7 see if it's the same answer if the same inputs are put
8 into to see if there's any discrepancy. But it just doesn't
9 make sense on the run.

10 MR. BRANDON: What doesn't make sense?

11 FEMALE PARTICIPANT: Are you close to --

12 MR. BRANDON: I'll come in --

13 FEMALE PARTICIPANT: Okay.

14 MR. BRANDON: I'll come in and take a look
15 at it.

16 FEMALE PARTICIPANT: Okay, thanks.

17 MALE PARTICIPANT: Okay, thanks
18 (indiscernible, possibly "Rich").

19 MR. BRANDON: Talk to you in a while.

20 FEMALE PARTICIPANT: Okay. Bye-bye.

21 MALE PARTICIPANT: Okay, go ahead there,
22 Charlie. I'm --
23
24

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[0%RM6{6L03565094]

MALE PARTICIPANT: Okay.

(Phone rings.)

FEMALE PARTICIPANT: I don't think so.

MALE PARTICIPANT: Yeah, all those other
models match up. They're --

(Phone rings.)

MALE PARTICIPANT: Okay, and they're still
in line?

MALE PARTICIPANT: Where's that --

MALE PARTICIPANT: Then why are there --

(Phone rings.)

MALE PARTICIPANT: Even though if he knows
--

(Phone rings.)

MALE PARTICIPANT: Lou's been trying to tell
me at his best, xenon-133 (indiscernible, possibly "are
deprived"), but it doesn't --

PHONE SYSTEM: Hi, you've reached George
Athey of Athey Consulting. I'm out of the office right
--

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[0%V4HF!L03565094]

(Phone rings.)

MALE PARTICIPANT: U.S. Nuclear Regulatory
Commission.

MR HUFFERT: Chris McKenney please.
M-C-K-E-N-N-E-Y.

MALE PARTICIPANT: One moment.

(Phone rings.)

MR. MCKENNEY: Hello, McKenney.

MR. HUFFERT: Hey, it's Tony Huffert
calling.

MR. MCKENNEY: Hey, Tony. How you doing?

MR. HUFFERT: Just a real quick question.
I'm working in the Ops Center, and I had a very quick
question for you about natural -- I'm sorry, the background
rate of plutonium throughout the United States.

I'm trying to get a reference off the internet,
like (indiscernible, possibly "UNSKEER") and NCRP, and
different values and I'm kind of at a loss right now.
I was wondering if --

MR. MCKENNEY: Right.

MR. HUFFERT: -- something in your back
pocket that --

MR. MCKENNEY: Not off the internet. I'm

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1 trying to look right now and see about something about.

2 That's natural. I'm trying to think if I have anything
3 else that has those because it should be -- that should
4 be pretty well out there for NCRP because after the
5 (indiscernible, possibly "bomb runaway") stuff, but --

6 MR. HUFFERT: And it doesn't go away.

7 MR. MCKENNEY: Right, so it's been there.

8 So it's not like every reactor already knows how much
9 plutonium is normally around their own sites.

10 MR. HUFFERT: Yeah.

11 MR. MCKENNEY: Boom, boom, boom. No, I only
12 have totals. Because I was pulling down the Eisenbud,
13 and the -- it just has totals of how many kilocuries
14 we're putting into the --

15 MR. HUFFERT: Atmosphere, I guess?

16 MR. MCKENNEY: -- the atmosphere for all
17 nuclear bombs. So unfortunately I don't have any quicky
18 links to do that, but, yeah, if I think of something
19 in the next few minutes I might email you, if I can find
20 something myself.

21 MR. HUFFERT: Okay, also it's my
22 understanding that there might be existing dose
23 coefficients that people are using for translating
24 plutonium-238, 239, et cetera, into potential dose for

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1 different scenarios. If I was looking for the latest
2 and greatest from you guys, where would I try to get
3 those coefficients?

4 MR. MCKENNEY: For what type of scenario,
5 that's the question. I mean, are you --

6 MR. HUFFERT: Well, we can do it for what
7 we call the intermediate phase from a accident. We have
8 a tool for that.

9 MR. MCKENNEY: Right.

10 MR. HUFFERT: But I also wanted to do it
11 for a potentially longer term scenario.

12 MR. MCKENNEY: Like I mean we have resident
13 farmer stuff in 1757 Volume II.

14 MR. HUFFERT: 1750 Volume II.

15 MR. MCKENNEY: 57.

16 MR. HUFFERT: Oh, 1757 Volume II.

17 MR. MCKENNEY: Yeah, it's Appendix H or I.
18 I think it's H.

19 MR. HUFFERT: Okay.

20 MR. MCKENNEY: And that has our -- what's
21 equal to 25 millirem --

22 MR. HUFFERT: Okay.

23 MR. MCKENNEY: -- screening values, which
24 are really conservative.

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1 MR. HUFFERT: Yes.

2 MR. MCKENNEY: But they have plutoniums in
3 there.

4 MR. HUFFERT: Okay.

5 MR. MCKENNEY: And that would be the -- a
6 fast one. The other place to go would be to the ICRP
7 129.

8 MR. HUFFERT: Oh, yes.

9 MR. MCKENNEY: Recommended screening values
10 for contaminated surface oil.

11 MR. HUFFERT: Oh, yes.

12 MR. MCKENNEY: So that's another source.

13 MR. HUFFERT: Okay.

14 MR. MCKENNEY: Because of course now it's
15 soil contamination so it's an appropriate point.

16 MR. HUFFERT: Okay.

17 MR. MCKENNEY: But those would be two I would
18 go.

19 MR. HUFFERT: Okay, cool.

20 MR. MCKENNEY: And, okay.

21 MR. HUFFERT: Yeah, and if you happen to
22 have anything, I can't get access to my email because
23 we're on this crazy --

24 MR. MCKENNEY: Oh, yeah, you're in the closed

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1 up system, yeah.

2 MR. HUFFERT: But we're at 301-816 --

3 MR. MCKENNEY: 816, yeah.

4 MR. HUFFERT: -- 5402. And if someone
5 answers it's going to be one of the Headquarters Operations
6 Officers, and then just ask for PMT.

7 MR. MCKENNEY: Okay.

8 MR. HUFFERT: And they'll get it back. In
9 case you -- if you hunt something down, that'd be helpful.

10 MR. MCKENNEY: Okay. I'll try.

11 MR. HUFFERT: Thank you.

12 MR. MCKENNEY: Bye.

13 MR. HUFFERT: Bye.

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[0%V659F_03565094]

(Phone rings.)

MALE PARTICIPANT: I was told that right
off the bat.

(Phone rings.)

PHONE SYSTEM: You have reached the desk
of Jo Ann Resner in the Technical Library. Please leave
a message, and I will return your call as soon as possible.

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(Phone rings.)

PHONE SYSTEM: This is John (indiscernible, possibly "Adalia"). I'll be out of the office on March 28 and 29, but I will be back on March 30th. If you're a Congressional staffer and need assistance, please call my supervisor Nathan Lucas at 202-707-3564.

Thank you.

DR. SUN: Hi, Jonathan. My name is Casper Sun. I'm working for NRC. I'm currently as one of the PMT staff, that's the emergency center.

I understand I have a look at and comment on your report. And if you have any questions, please give me a call. If it's easier for you to reach me through my cell phone, my phone number is (b)(6)

My name is Casper Sun. C-A-S-P-E-R S-U-N.

Looking forward to chat with you. Thank you. Bye bye.

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