To:	ET02 Hoc; Brusoe, Eric
Cc: Subject:	Turner, Joseph; Heard, Robert; Curtis, David; LIA02 Hoc; LIA03 Hoc RE:
This information is no	for broad distribution.
From: ET02 Hoc	
Sent: Saturday, Marcl To: Brusoe, Eric	26, 2011 6:37 PM
	eard, Robert; Curtis, David; LIA02 Hoc; LIA03 Hoc
Subject: RE:	
Chairman Jaczko trave	ling to Japan tonight. He will need BlackBerry functionality.
	······································
From: Brusoe, Eric Sent: Saturday, Marcl	26 2011 6·15 PM
To: ET02 Hoc	20, 2011 0.15 PM
	eard, Robert; Curtis, David; LIA02 Hoc; LIA03 Hoc
Subject: Re:	
What's a good numbe	for the ops center
Eric Brusoe	
Sent from my NRC Bla	скретту
From: ET02 Hoc	
To: Brusoe, Eric	
Cc: Turner, Joseph; H Sent: Sat Mar 26 14:0	eard, Robert; Curtis, David; LIA02 Hoc; LIA03 Hoc
Subject: RE:	4:10 2011
-	
	warded to Danielle – will let you know if she has any other problems. Thank you for your suppo
From: Brusoe, Eric	
Sent: Saturday, Marc	
To: ET02 Hoc; LIA02	Hoc; LIA03 Hoc eard, Robert; Curtis, David
Subject: Fw:	
-	

ET02 Hoc

Saturday, March 26, 2011 6:45 PM

Please see below for the resolution of the VM issue.

Standing by if any other issues other come up.

Eric Brusoe

From:

Sent:

Seni from my NRC Blackberry 301 512 4139

From: Francis, Sharoon To: Brusoe, Eric Cc: Ashby, Nadine; Padilla, William; 'bwhite@ultra-tech.com' <bwhite@ultra-tech.com>; TSC Resource Sent: Sat Mar 26 13:39:39 2011 Subject: Re:

Good Afternoon Mr. Brusoe,

AT&T's International Care team has advised that while Danielle Emche is roaming internationally in Japan, she must press and hold the number 1 button in order to access her voice mail, at which point she will be able to set up her voice mail box. Selecting the "Call Voice Mail" option as Ms. Emche is currently doing will not work except domestically in the United States.

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Please let me know if this resolves Ms. Emche's issue or if further troubleshooting is required. Also, please be advised that Ms. Emche's BlackBerry number is (b)(6) and not (b)(6) as stated in the e-mail below.

Thank you,

Sharoon Francis Sent from NRC BlackBerry

From: Brusoe, Eric To: Francis, Sharoon Cc: Ashby, Nadine Sent: Sat Mar 26 12:55:45 2011 Subject: Fw:

Sharoon you got this?

Eric Brusoe Sent from my NRC Blackberry

From: ET02 Hoc To: TSC Resource Cc: Brusoe, Eric; Heard, Robert Sent: Sat Mar 26 12:33:03 2011 Subject:

Please see e-mail from Danielle Emche below. She is currently in Japan and was issued Blackberry #[[b](6]

From: Emche, Danielle Sent: Saturday, March 26, 2011 10:55 AM To: LIA03 Hoc; LIA02 Hoc Subject: Re: TRANSITION REPORT FOR MARCH 26, 2011 - 0700

One more thing, this may have to wait until Monday when I can call CSC, my new bb tells me I have voice mail but when I select "call voice mail" it rolls me over to leave a message for myself. Maybe the IT folks in the Ops center know

something. (Also, when people call my new number, the phone reports that my voice mail isn't set up). It might be that there's nothing that can be done, since it's a temporary phone number, but could you pass this along to the IT folks in the Ops center in case they know something?

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and the second second

Danielle

Sent from an NRC BlackBerry.

From: Sent: To: Subject: Coggins, Angela Saturday, March 26, 2011 8:54 PM LIA03 Hoc; Pace, Patti; Batkin, Joshua Phone nos.

1



Chairman's (b)(6)

Angela Coggins Policy Director Office of Chairman Gregory B Jaczko US Nuclear Regulatory Commission angela.coggins@nrc.gov/301-415-1828

From:	RMTPACTSU_ELNRC <rmtpactsu_elnrc@ofda.gov></rmtpactsu_elnrc@ofda.gov>
Sent:	Sunday, March 27, 2011 10:34 AM
То:	LIA01 Hoc; LIA02 Hoc; LIA06 Hoc; LIA07 Hoc; LIA08 Hoc; LIA11 Hoc
Cc:	Casto, Chuck; Dorman, Dan; McDermott, Brian; Trocine, Leigh; Dudek, Michael; Kozal, Jason; Kowalczik, Jeffrey
Subject:	QUERY: GOJ requests Hydraulic hoses with couplers & radioactive shielding for vehicles as well as additional protective clothing

Just FYI. There is confusion currently at USAID (RMT PACTSU) regarding what action(s) they have in regards these requests. The e-mail below from Mr. Brendel (at DoS) <u>would imply</u> to them that USAID is involved, but they have not received any formal requests for specific support, based on technical evaluation performed by Consortium or other party. In addition, if specific USAID assistance is requested, once technical need is validated, again a funding source would need to be identified to USAID. At this time, the RMT Response Manager (PACTSU) is proposing to run this through his management chain to get a better understanding of USAID's involvement and appropriate POCs in the process moving forward.

Starting last Friday (March 25), the NRC Liaison to USAID has been monitoring the Daily Consortium Call. Should a USAID representative be on this call (remember that they are primarily a humanitarian relief organization) or at a minimum, the NRC Liaison can use this call to verify expectations of USAID support as appropriate.

Joe Anderson NRC Liaison to USAID

From: Brendel, Brian D [mailto:BrendelBD@state.gov] On Behalf Of zTask Force 1 Mailbox
Sent: Sunday, March 27, 2011 9:37 AM
To: RMTPACTSU_RM; zTask Force 1 Mailbox; RMT_PACTSU
Cc: JapanEmbassy, TaskForce
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Dear RMT colleagues,

I am hoping to have an update on the following for today's phone call with Ambassador Fujisaki:

1: Hydraulic hoses with couplers (couplings?)

2: Radioactive shielding for vehicles

3: Protective clothing (suits) against radioactivity.

Was there any word from the expanded DART in Tokyo?

Brian Brendel Cell (b)(6)

TaskForce switchboard: 202-647-6611

P.S. The task force still does have real live people staffing it, especially on our night shift 11:00 PM - 7:00 AM

From: RMTPACTSU_RM [mailto:RMTPACTSU_RM@ofda.gov] Sent: Saturday, March 26, 2011 2:55 PM To: zTask Force 1 Mailbox; RMT_PACTSU Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Brian, you have the correct address. We have routed this information to the expanded DART in Tokyo and expect to have some feedback from them our Sunday AM...thanks...Justin

From: Brendel, Brian D [mailto:BrendelBD@state.gov] On Behalf Of zTask Force 1 Mailbox
Sent: Saturday, March 26, 2011 2:47 PM
To: RMT_PACTSU
Subject: FW: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Dear RMT (I believe this is your correct email, please confirm):

Ambassador Fujisaki told EAP Acting A/S Joe Donovan that at the most recent meeting with the U.S. Embassy in Tokyo, Senior Advisor Hosono and his team requested hydraulic hoses with couplers and radioactive shielding for vehicles, as well as additional radioactive protective clothing.

From: Green, Christopher L
Sent: Saturday, March 26, 2011 12:40 PM
To: Zumwalt, James P; Campbell, Kurt M
Cc: TaskForce-1 - Japan; JapanEmbassy, TaskForce; Loi, James L; Patel, Nirav S; EAP-J-Office-DL; Tong, Kurt W; Donovan, Joseph R
Subject: 03 26 11 Donovan-Fujisaki meeting notes 1100

A/S Campbell, Jim,

Here are the call notes and action items from today's 11:00 a.m. call with Ambassador Fujiśaki.

Regards, Christopher

Christopher Green Office of Japan Affairs U.S. Department of State Tel: (202) 647 2914 Fax: (202) 647 4402

PDAS Donovan call notes with Ambassador Fujisaki, March 26, 1100 And Action Items

GOJ Asks: Ambassador Fujisaki told EAP Acting A/S Joe Donovan that at the most recent meeting with the U.S. Embassy in Tokyo, Senior Advisor Hosono and his team requested hydraulic hoses with couplers and radioactive shielding for vehicles, as well as additional radioactive protective clothing.

Water: Donovan said that Costco has determined they have the capacity to provide up to 7 million bottles of water per week to Tokyo in 100 containers, each holding 70,000 bottles. Ambassador Fujisaki asked if Costco could make a public announcement on the delivery of bottled water.

Robots: Ambassador Fujisaki said that the robots and associated equipment was now going to be transported via Japan Airlines (JAL) and not FedEx. It is scheduled to depart Monday and will arrive Tuesday Japan time.

Barges and Hypothetical Bounding Models: Donovan said two U.S. Navy Barges holding fresh water left the port of Yokosuka on March 25 and 26, respectively, to add capacity to Freshwater + boric Acid spraying onto the reactors. He also said that the instruction cable on the plume models should be sent to Embassy Tokyo today. Ambassador Fujisaki asked how many tons of water. Donovan said we would follow up. (We have subsequently informed the Japanese Embassy that each barge holds 350,000 gallons of fresh water.)

Ambassador Fujisaki said that he thought things were going well with his exchanges with senior U.S. officials. He recently met with Dep Sec Poneman, Administrator Jackson, and Secretary Chu among others.

KMAX: Donovan requested that in meetings in Tokyo that the GOJ provide a clear plan for usage of the KMAX, and reiterated our request that the GOJ address indemnity issues by invoking the IAEA Convention on Nuclear Disasters.

The Ambassador explained that the GOJ was not familiar with the capabilities of KMAX and that it would be operated by Americans on the ground who would advise the best use for the equipment. This might be a redundancy, but the GOJ would still appreciate it. Donovan asked Ambassador Fujisaki to follow up with Special Advisor Hosono in Tokyo about invoking the IAEA convention. Ambassador Fujisaki said that the GOJ has been reluctant to invoke the Convention.

The next call with Ambassador Fujisaki is scheduled for Sunday, March 27, at 12:00 p.m.

ACTION ITEMS

Bottled Water: Embassy Tokyo: please determine if COSTCO or DART can make a public announcement. Lockheed Martin KMAX Helicopter: Request Embassy Tokyo raise indemnity issue.

SBU This email is UNCLASSIFIED.

OST01 HOC From: Sent: Sunday, March 27, 2011 1:06 PM To: ET07 Hoc; PMT11·Hoc; LIA06 Hoc Cc: FOIA Response.hoc Resource Subject: FW: ATTN: Gerry Garino - FW: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March) Attachments: Version 7 --- DOE Triage - Japan Spectrum Compilation - As of 25 March 2011 (OUO),xis From: HOO Hoc [mailto:HOO.Hoc@nrc.gov] Sent: Sunday, March 27, 2011 12:37 PM To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC Subject: FW: ATTN: Gerry Garino - FW: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March)

From: NITOPS[SMTP:NITOPS@NNSA.DOE.GOV] Sent: Sunday, March 27, 2011 12:36:26 PM To: DL-Policy Working Group; CMHT; HOO Hoc; NARAC; PMT01 Hoc; PMT02 Hoc; Hoc, PMT12 Cc: 'Blumenthal, Daneil' Subject: FW: ATTN: Gerry Garino - FW: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March) Auto forwarded by a Rule

FYL

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From: Okada, Colin E (NST) Sent: Sunday, March 27, 2011 12:34 PM To: NITOPS; CMHT Subject: RE: ATTN: Gerry Garino - FW: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March)

I have added information for latitude, longitude, air volume and filter type where available. There are few air samples in the set.

From: NITOPS [mailto:NITOPS@nnsa.doe.gov] Sent: Sunday, March 27, 2011 8:35 AM To: CMHT Subject: ATTN: Gerry Garino - FW: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March)

ATTN: Gerry Garino

Nuclear Incident Team (NIT) Office of Emergency Response (NA-42) National Nuclear Security Administration は影響したのないなどがあり、いたいたとうと

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From: NITOPS

Sent: Friday, March 25, 2011 1:08 PM

To: Aokl, Steven; Aragon, Antonio; Aragon, Antonio; Binkley, Steve; Budnitz, Bob; Casson, William (Bill); Dudder, Gordon B; Garwin, Dick (EOP); Garwin, Dick (IBM); Myers, Steven; NITOPS; NITSolutions; Peterson, Per; Pitts, William Karl; Poneman, Daniel; Sheron, Brian; Spanard, Richard J.; Swanson, Joel (LLNL); Szilard, Ronaldo; Wimer, Nathan; Wimer, Nathan; Woessner, William S.

Subject: FW: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March)

Please see the attached Triage compilation of spectra from different locations (air, ground, air sampler) in Easter Japan. Questions can be directed to the NIT. V/R

NITOPS

From: Spanard, Richard J.
Sent: Friday, March 25, 2011 12:59 PM
To: NITOPS
Cc: Hoagland, David; Woessner, William S.; Aragon, Antonio
Subject: FW: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March)

NITOPS,

Attached is updated compilation XLS.

v/r Rick Spanard LTC, USA NNSA/NA-42 Render Safe Operations Albuquerque, NM 505-853-8195 office (ABQ) 703-806-4618 office (DC) cell secure cell pager (b)(6) 505-284-7081 fax (b)(6) -or- (b)(6)

From: Wimer, Nathan
Sent: Friday, March 25, 2011 10:42 AM
To: Spanard, Richard J.; Woessner, William S.
Cc: Aragon, Antonio; Bounds, John; Casson, William (Bill); Myers, Steven; Swanson, Joel (LLNL); nrhilto@sandia.gov; clkunz@sandia.gov; Church, Jennifer A.; Mercer, David; Lasche, George
Subject: Version 6 of Triage Compilation XLS (Triage Events for 20-23 March)

FOR OFFICIAL USE ONLY DISTRIBUTION LIMITED TO NA40 ONLY

Triage FTLs,

Attached is Version 6 of the Triage Compilation XLS, including spectrum assays submitted 20-23 March.

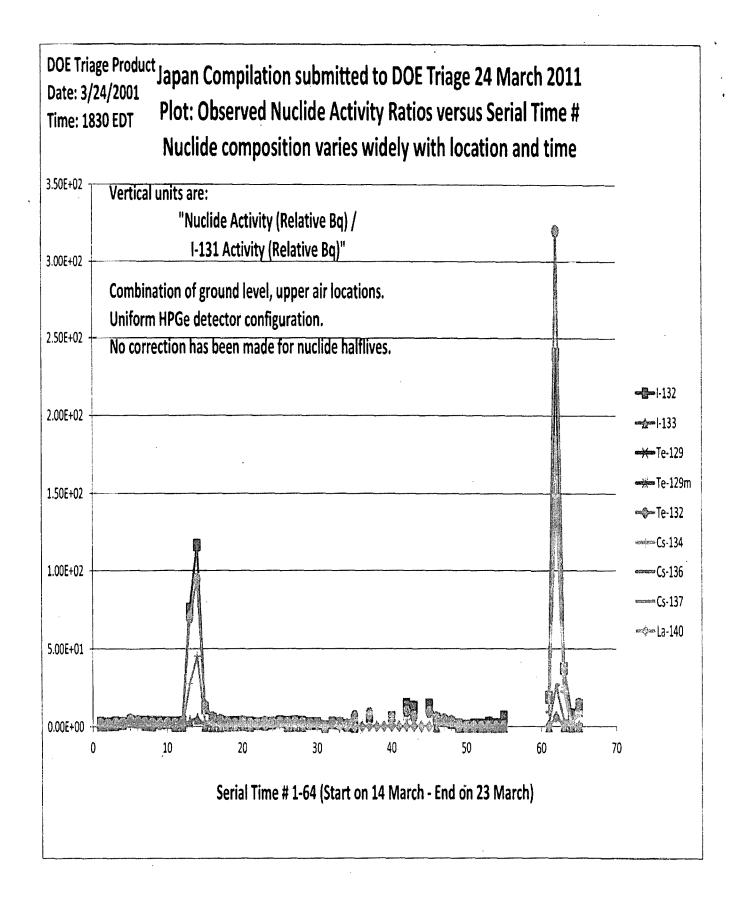
Overall "Field Correlation to Assays" are underway, and will likely involve Triage engagement with CMRT. This version is acceptable to submit to NITOPS, no changes to actual assay data:

- FILE TYPE column updated by NITOPS suggestion
- Additional entries in the Collections List Comments, where Field Correlations are know or estimated

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- Inserted a "Normalized I-131 Countrate Column" to explicitly show count duration corrections and revised the I-131 Chart so it now shows the new column
- Added an "Update Notes" sheet to capture ongoing changes

Triage Analysts (N. Wimer)



From:	RMTPACTSU_ELNRC <rmtpactsu_elnrc@ofda.gov></rmtpactsu_elnrc@ofda.gov>		
Sent:	Sunday, March 27, 2011 3:01 PM		
To:	LIA01 Hoc; LIA11 Hoc; ET07 Hoc; RST01 Hoc		
Subject:	FYI: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles a well as additional rprotective clothing		
Attachments:	image001.png		

FYI – Discussion in DOS regarding hoses and couplings. Do we (NRC) have anything to add or can we point them to someone who could?

Thanks!

: 1

From: Brendel, Brian D [mailto:BrendelBD@state.gov] On Behalf Of zTask Force 1 Mailbox
Sent: Sunday, March 27, 2011 2:56 PM
To: JapanEmbassy, TaskForce; RMTPACTSU_RM; zTask Force 1 Mailbox; RMT_PACTSU
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive shellding for vehicles as well as additional rprotective clothing

Regarding Hydraulic hoses and couplers (couplings?):

Are these hard to find items in the U.S.?

I don't want to steal the thunder from the Australians, but I think these may be something we do not want to let get delayed.

Did the Australians seem very confident they can supply Hydraulic Hoses and quickly and in sufficient quantity?

P.S. Any luck on the radioactive – protection suits?

Brian

From: JapanEmbassy, TaskForce
Sent: Sunday, March 27, 2011 10:42 AM
To: 'RMTPACTSU_RM'; zTask Force 1 Mailbox; RMT_PACTSU
Cc: JapanEmbassy, TaskForce
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

We received the following information from the NRC team in Tokyo:

1. Hydraulic hoses.....equipment not located as of yet, the Australians are seeking this equipment. We will update the Japanese Cabinet meeting tomorrow night.

2. Shielding....points of contact for tungsten shielding were provided at the cabinet meeting tonight.

3. Suits....we don't believe that such suits exist. We are still in pursuit of these.

on behalf of the Japan Emergency Command Center, +81-3-3224- 5533

Lynda Hinds
Staff Assistant to Ambassador John V. Roos
U.S. Embassy
1-10-5 Akasaka, Minato-ku
Tokyo 107-8420
Tel. (03) 3224- 5370

Twitter.com/AmbassadorRoos



This email is UNCLASSIFIED.

From: RMTPACTSU_RM [mailto:RMTPACTSU_RM@ofda.gov]
Sent: Sunday, March 27, 2011 11:39 PM
To: zTask Force 1 Mailbox; RMT_PACTSU
Cc: JapanEmbassy, TaskForce
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

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Brian, we did convey this request to the expanded DART and per a concall last night were told the specific request was being discussed at the Tokyo level. We did not receive a further update this morning and we are asking again where things stand...Justin

From: Brendel, Brian D [mailto:BrendelBD@state.gov] On Behalf Of zTask Force 1 Mailbox
Sent: Sunday, March 27, 2011 9:37 AM
To: RMTPACTSU_RM; zTask Force 1 Mailbox; RMT_PACTSU
Cc: JapanEmbassy, TaskForce
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive shellding for vehicles as well as additional rprotective clothing

Dear RMT colleagues,

I am hoping to have an update on the following for today's phone call with Ambassador Fujisaki:

1: Hydraulic hoses with couplers (couplings?)

- 2: Radioactive shielding for vehicles
- 3: Protective clothing (suits) against radioactivity.

Was there any word from the expanded DART in Tokyo?

Brian Brendel

Cell (b)(6)

TaskForce switchboard: 202-647-6611

P.S. The task force still does have real live people staffing it, especially on our night shift 11:00 PM - 7:00 AM

From: RMTPACTSU_RM [mailto:RMTPACTSU_RM@ofda.gov] Sent: Saturday, March 26, 2011 2:55 PM To: zTask Force 1 Mailbox; RMT_PACTSU

Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Brian, you have the correct address. We have routed this information to the expanded DART in Tokyo and expect to have some feedback from them our Sunday AM...thanks...Justin

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From: Green, Christopher L
Sent: Saturday, March 26, 2011 12:40 PM
To: Zumwalt, James P; Campbell, Kurt M
Cc: TaskForce-1 - Japan; JapanEmbassy, TaskForce; Loi, James L; Patel, Nirav S; EAP-J-Office-DL; Tong, Kurt W; Donovan, Joseph R
Subject: 03 26 11 Donovan-Fujisaki meeting notes 1100

A/S Campbell, Jim,

Here are the call notes and action items from today's 11:00 a.m. call with Ambassador Fujisaki.

Regards, Christopher

Christopher Green Office of Japan Affairs U.S. Department of State Tel: (202) 647 2914 Fax: (202) 647 4402

PDAS Donovan call notes with Ambassador Fujisaki, March 26, 1100 And Action Items

GOJ Asks: Ambassador Fujisaki told EAP Acting A/S Joe Donovan that at the most recent meeting with the U.S. Embassy in Tokyo, Senior Advisor Hosono and his team requested hydraulic hoses with couplers and radioactive shielding for vehicles, as well as additional radioactive protective clothing.

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11. SALE

The next call with Ambassador Fujisaki is scheduled for Sunday, March 27, at 12:00 p.m.

ACTION ITEMS

Bottled Water: Embassy Tokyo: please determine if COSTCO or DART can make a public announcement. Lockheed Martin KMAX Helicopter: Request Embassy Tokyo raise indemnity issue.

4

SBU This email is UNCLASSIFIED. From: Sent: To: Subject: Emche, Danielle Sunday, March 27, 2011 3:37 AM LIA03 Hoc Re: Voice mail--is it working?

Hi Elizabeth,

I am here, Jack called right after I landed and filled me in about the breaking news. And yes, you listed the right bb number for me in Tokyo.

Thanks for asking about my voice mail, I still can't access it for this line or my normal line. This might need to wait for CSC on Monday, maybe the morning shift can contact them then. There might not be anything they can do, but it doesn't hurt to ask.

I still have to read the reports from during my flight. Have we learned anything new in the last hour or two?

Danielle Sent from an NRC BlackBerry.

From: LIA03 Hoc To: Emche, Danielle Sent: Sun Mar 27 03:19:02 2011 Subject: Voice mail--is it working?

Hi, Danielle,

Happy landings? Hope sol

I understand that you may have been having trouble accessing your bb voicemail. Has this been resolved? Please let me know if I can help you take care of this.

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Good luck and take care! Did you hear about the Chairman's trip? I'm sure the others will fill you in.

Best regards, Elizabeth PS—We also wanted to confirm your bb number; is it (b)(6) for the one you were issued for this trip?

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From: Sent: To:	PMT02 Hoc Sunday, March 27, 2011 4:18 PM PMT11 Hoc
Subject: Attachments:	FW: Initial U.S. Nuclear Power Plant Environmental Data Resulting from Fukushima Fukushima-Data.zip
FYI!	
From: LIA02 Hoc Sent: Sunday, March 27, To: PMT01 Hoc; PMT02 H Cc: LIA03 Hoc	Hoc
Subject: FW: Initial U.S.	Nuclear Power Plant Environmental Data Resulting from Fukushima
PMT, This is U.S. data as a resu	It of the Fukushima incident. NEI has compiled it and I expect that we'll receive updates.
Thanks, -Jenny	
From: Owens, Janice Sent: Sunday, March 27, To: LIA02 Hoc; LIA03 Ho	DC .
Subject: Fw: Initial U.S.	Nuclear Power Plant Environmental Data Resulting from Fukushima
This appears to have bee	en sent to OIP notifications in error? Please forward to the right people.
Have a good shift!	
Sent from an NRC Black	berry
(b)(6)	
Sent: Sun Mar 27 12:46	D Hoc; Horn, Brian; Owens, Janice; OIP_Notifications Resource
Sent: Sunday, March 27 To: ANDERSON, Ellen; Cc: Nelson, Robert; clark ANDERSEN, Ralph; ANI HUG, Martin; James Mal MAUER, Andrew; McCU PERKINS-GREW, Susar Timothy Wright; Cindy Co	iE Power & Water)[SMTP:DAVID1.HINDERA@GE.COM] , 2011 12:44:59 PM HOO Hoc; eoc_environmental_unit@epamail.epa.gov <.ray@epa.gov; PIETRANGELO, Tony; MARION, Alex; DERSEN, Ralph; EARLS, Chris; Graham T Johnson; lon; Jeffrey Foster; Karen Kim; Cyndi Martinec; LLUM, Rodney; Paul Mothena; NICHOL, Marcus; n; Phung Tran; REDMOND, Everett; SCHLUETER, Janet; onnelly; Ken Sejkora; Lisa Edwards; Michael Kent; don; awhooks@tva.gov; barry.barton@exeloncorp.com;

Sec. Sec.

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brad.boyer@xenuclear.com; brad.houston@pgnmail.com; camoeller@aep.com; cenglan@entergy.com; csherma@entergy.com; christopher.r.martin@fpl.com; dale.merchant@exeloncorp.com; daniel.craine@nexteraenergy.com; daniel.collins@exeloncorp.com; dtkatch@entergy.com; dean.divittore@exeloncorp.com; dloope@entergy.com; dlnoble@firstenergycorp.com; ewolf1@entergy.com; apierce@entergy.com; harold.trimble2@pseg.com; harry.bush@exeloncorp.com; j.eric.laine@dom.com; james.m.hale@dom.com; jsmccamy@tva.gov; jsmith@entergy.com; jason.w.eggart@dom.com; jeffery.stovall@exeloncorp.com; jerry.johnson@pgnmail.com; joe.smith@duke-energy.com; jgever@ameren.com; john.renda@exeloncorp.com; jmcorey@nppd.com; john.gaffney@aps.com; jpriest@entergy.com; john.cole@cengllc.com; john.mooneyhan@duke-energy.com; ken.gould@cengllc.com; kevin.hedgspeth@exeloncorp.com; leon.akinsjr@pgnmail.com; lagrone.robinson@duke-energy.com; mark.holmes@xenuclear.com; mark.lewis@sce.com; mos3@pge.com; michael.parker@pgnmail.com; mwdavis@energy-northwest.com; mcoleman22@scana.com; patrick.daly@exeloncorp.com; pmcnulty@firstenergycorp.com; robert.evans@dom.com; rhodgson@oppd.com; laburnr@dteenergy.com; robert.holmes@exeloncorp.com; rojander@southernco.com; robert.l.porter@nexteraenergy.com; robert.gary@pseg.com; raaquilera@stpeqs.com; scott.bradlev@luminant.com; sbaker@firstenergycorp.com; vlschuman@pplweb.com; william_meyer@fpl.com; wrvierka@southernco.com; wtriche@entergy.com; cynthia cashwell@fpl.com; iakocher@southernco.com; parhoad@wcnoc.com Subject: RE: Initial U.S. Nuclear Power Plant Environmental Data Resulting from Fukushima Auto forwarded by a Rule

Radioactivity Measurement in Japan

Data from http://eq.wide.ad.jp/index_en.html

Data based on the official announcements by the Japanese Government

English translation where available carried out by volunteers, students of KEIO University, friends in partner Universities elsewhere in Asia and supporters worldwide.

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The PDF to CSV Conversion done by Gemma Hobson ((b)(6), (b)(6), Pete Warden (b)(6), (b)(6), (c)(6), (c

From: ANDERSON, Ellen [mailto:exa@nei.org]

Sent: Saturday, March 26, 2011 2:37 PM

To: 'hoo.hoc@nrc.gov'; 'eoc_environmental_unit@epamail.epa.gov'

Cc: 'robert.nelson@nrc.gov'; 'clark.ray@epa.gov'; PIETRANGELO, Tony; MARION, Alex; ANDERSEN, Ralph; ANDERSEN, Ralph; ANDERSON, Ellen; EARLS, Chris; Graham T Johnson; HUG, Martin; James Mallon; Jeffrey Foster; Karen Kim; Cyndi Martinec; MAUER, Andrew; McCULLUM, Rodney; Paul Mothena; NICHOL, Marcus; PERKINS-GREW, Susan; Phung Tran; REDMOND, Everett; SCHLUETER, Janet; Timothy Wright; Cindy Connelly; Hindera, David (GE Power & Water); Ken Sejkora; Lisa Edwards; Michael Kent; Sean Bushart; Tom Sowdon; Mr. A. Wayne Hooks (Wayne) (awhooks@tva.gov); Mr. Barry M. Barton (Barry) (barry.barton@exeloncorp.com); Mr. Brad Boyer (Brad) (brad.boyer@xenuclear.com); Mr. Bradford L. Houston (Brad) (brad.houston@pgnmail.com); Mr. Carl A. Moeller (Carl) (camoeller@aep.com); Mr. Charles C. England (Charles) (cenglan@entergy.com); Mr. Charles Sherman (Chuck) (csherma@entergy.com); Mr. Christopher R. Martin (Chris) (christopher.r.martin@fpl.com); Mr. Dale J. Merchant (Dale) (dale.merchant@exeloncorp.com); Mr. Daniel T. Craine (Dan) (daniel.craine@nexteraenergy.com); Mr. Daniel W. Collins (Dan) (daniel.collins@exeloncorp.com); Mr. Daniel V. Collins (Dan) (daniel.collins@exeloncorp.com); Mr. Daniel Y. Tkatch (Dave) (dtkatch@entergy.com); Mr. Dean DIVittore (Dean) (dean.divittore@exeloncorp.com); Mr.

Dennis C. Loope (Dennis) (dloope@entergy.com); Mr. Douglas L. Noble (Doug) (dlnoble@firstenergycorp.com); Mr. Eric H. Wolf (Eric) (ewolf1@entergy.com); Mr. Glenn M. Pierce (Glenn) (gpierce@entergy.com); Mr. Harold N. Trimble (Hal) (harold.trimble2@pseg.com); Mr. Harry Bush (Harry) (harry.bush@exeloncorp.com); Mr. J. Eric Laine (Eric) (j.eric.laine@dom.com); Mr. James M. Hale (Mike) (james.m.hale@dom.com); Mr. James S. McCamy (Steve) (jsmccamy@tva.gov); Mr. James Smith Jr. (Jim) (jsmith@entergy.com); Mr. Jason W. Eggart (Jason) (jason.w.eggart@dom.com); Mr. Jeff M. Stovall (Jeff) (jeffery.stovall@exeloncorp.com); Mr. Jerry Johnson Jr. (Jerry) (jerry.johnson@pgnmail.com); Mr. Joe W. Smith (Joe) (joe.smith@duke-energy.com); Mr. Johann S. Gever (Johann) (jgeyer@ameren.com); Mr. John A. Renda (John) (john.renda@exeloncorp.com); Mr. John M. Corey (John) (jmcorey@nppd.com); Mr. John P. Gaffney (John) (john.gaffney@aps.com); Mr. John Priest Jr. (Jack) (ipriest@entergy.com); Mr. John R. Cole (JR) (john.cole@cengllc.com); Mr. John Stephen Mooneyhan (Steve) (john.mooneyhan@duke-energy.com); Mr. Kenneth Gould Jr. (Ken) (ken.gould@cengllc.com); Mr. Kevin W. Hedgspeth (Kevin) (kevin.hedgspeth@exeloncorp.com); Mr. L. Bryant Akins (Bryant) (leon.akinsjr@pgnmail.com); Mr. L. Dexter Robinson (Dexter) (lagrone.robinson@duke-energy.com); Mr. Mark L. Holmes (Mark) (mark.holmes@xenuclear.com); Mr. Mark Lewis (Mark) (mark.lewis@sce.com); Mr. Mark Somerville (Mark) (mos3@pge.com); Mr. Michael L. Parker (Mike) (michael.parker@pgnmail.com); Mr. Michael W. Davis (Mike) (mwdavis@energy-northwest.com); Mr. Moses Coleman (Moses) (mcoleman22@scana.com); Mr. Patrick W. Daly (Patrick) (patrick.daly@exeloncorp.com); Mr. Paul McNulty (Paul) (pmcnulty@firstenergycorp.com); Mr. R. Bruce Evans Jr. (Bruce) (robert.evans@dom.com); Mr. Randall P. Hodgson (Randy) (rhodgson@oppd.com); Mr. Richard S. LaBurn (Rick) (laburnr@dteenergy.com); Mr. Robert D. Holmes (Bob) (robert.holmes@exeloncorp.com); Mr. Robert J. Anderson (Bob) (rojander@southernco.com); Mr. Robert Porter Jr. (Bob) (robert.l.porter@nexteraenergy.com); Mr. Robert S. Gary (Bob) (robert.gary@pseg.com); Mr. Roger Aquilera (Roger) (raaquilera@stpegs.com); Mr. Scott E. Bradley (Scott) (scott.bradley@luminant.com); Mr. Stanley F. Baker (Stan) (sbaker@firstenergycorp.com); Mr. Vincent L. Schuman (Vince) (vlschuman@pplweb.com); Mr. William J. Meyer (Bill) (william_meyer@fpl.com); Mr. William R. Vierkandt (Rick) (wrvierka@southernco.com); Mr. William T. Trichell (Tommy) (wtriche@entergy.com); Ms. Cynthia K. Cashwell (Cynthia) (cynthia_cashwell@fpl.com); Ms. Indira Kochery (Indira) (iakocher@southernco.com); Ms. Pamela J. Bedgood (Pam) (parhoad@wcnoc.com) Subject: Initial U.S. Nuclear Power Plant Environmental Data Resulting from Fukushima

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All,

Attached you will find an Excel spreadsheet containing the subject data submitted to NEI as of 1200 hrs on March 26, 2011.

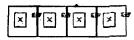
Beginning on Monday, March 28, 2011, U.S. nuclear power plants will record their data on a specially designed web page. Additional information pertaining to this web page will be forthcoming in the next couple of days.

Ellen P. Anderson

Senior Project Manager, Radiation Safety & Environmental Protection Nuclear Energy Institute Suite 400 1776 | Street, NW Washington, DC 20006-3708

phone: 202.739.8043

cell: (b)(6) fax: 202.533.0144 exa@nei.org



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Sent through mail.messaging.microsoft.com

Attachment Fukushima-Data.zip(1314938 bytes) cannot be converted to PDF format.

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From: OST02 HOC Sent: Sunday, March 27, 2011 4:49 PM To: PMT02 Hoc; PMT11 Hoc; Hoc, PMT12 Subject: FW: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing Attachments: image001.png From: HOO Hoc [mailto:HOO.Hoc@nrc.gov] Sent: Sunday, March 27, 2011 3:41 PM To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC Subject: FW: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing From: NITOPSISMTP:NITOPS@NNSA.DOE.GOVI Sent: Sunday, March 27, 2011 3:40:48 PM To: DL-Policy Working Group; CMHT; HOO Hoc; NARAC; PMT01 Hoc; PMT02 Hoc; Hoc, PMT12 Subject: FW: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing Auto forwarded by a Rule **From:** RMTPACTSU_DOE [mailto:rmtpactsu_doe@ofda.gov] Sent: Sunday, March 27, 2011 3:12 PM To: NITOPS Subject: FW: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing NRC's response From: RMTPACTSU_ELNRC Sent: Sunday, March 27, 2011 3:11 PM To: 'zTask Force 1 Mailbox'; JapanEmbassy, TaskForce; RMTPACTSU_RM; RMT_PACTSU Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing Brian, Lynda: INPO may be of assistance as they have US industry and licensee contacts. Contact info: inpoercassistance@inpo.org. 770-644-8118. For the last week or so they have been filtering all technical offers of assistance, prioritizing them, and facilitating as necessary. They should have a list of items (hoses, couplings, protective suits) that are available.

Michael I. Dudek

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US Nuclear Regulatory Commission

From: Brendel, Brian D [mailto:BrendelBD@state.gov] On Behalf Of zTask Force 1 Mailbox Sent: Sunday, March 27, 2011 2:56 PM To: JapanEmbassy, TaskForce; RMTPACTSU_RM; zTask Force 1 Mailbox; RMT_PACTSU Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Regarding Hydraulic hoses and couplers (couplings?):

Are these hard to find items in the U.S.?

I don't want to steal the thunder from the Australians, but I think these may be something we do not want to let get delayed.

Did the Australians seem very confident they can supply Hydraulic Hoses and quickly and in sufficient quantity?

P.S. Any luck on the radioactive - protection suits?

Brian

From: JapanEmbassy, TaskForce
Sent: Sunday, March 27, 2011 10:42 AM
To: 'RMTPACTSU_RM'; zTask Force 1 Mailbox; RMT_PACTSU
Cc: JapanEmbassy, TaskForce
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

We received the following information from the NRC team in Tokyo:

1. Hydraulic hoses....equipment not located as of yet, the Australians are seeking this equipment. We will update the Japanese Cabinet meeting tomorrow night.

2. Shielding.....points of contact for tungsten shielding were provided at the cabinet meeting tonight.

3. Suits.....we don't believe that such suits exist. We are still in pursuit of these.

on behalf of the Japan Emergency Command Center, +81-3-3224- 5533

Lynda Hinds Staff Assistant to Ambassador John V. Roos U.S. Embassy 1-10-5 Akasaka, Minato-ku Tokyo 107-8420 Tel. (03) 3224- 5370

Twitter.com/AmbassadorRoos

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This email is UNCLASSIFIED.

From: RMTPACTSU_RM [mailto:RMTPACTSU_RM@ofda.gov]
Sent: Sunday, March 27, 2011 11:39 PM
To: zTask Force 1 Mailbox; RMT_PACTSU
Cc: JapanEmbassy, TaskForce
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Brian, we did convey this request to the expanded DART and per a concall last night were told the specific request was being discussed at the Tokyo level. We did not receive a further update this morning and we are asking again where things stand...Justin

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From: Brendel, Brian D [mailto:BrendelBD@state.gov] On Behalf Of zTask Force 1 Mailbox
Sent: Sunday, March 27, 2011 9:37 AM
To: RMTPACTSU_RM; zTask Force 1 Mailbox; RMT_PACTSU
Cc: JapanEmbassy, TaskForce
Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Dear RMT colleagues,

I am hoping to have an update on the following for today's phone call with Ambassador Fujisaki:

1: Hydraulic hoses with couplers (couplings?)

2: Radioactive shielding for vehicles

3: Protective clothing (suits) against radioactivity.

Was there any word from the expanded DART in Tokyo?

Brian Brendel

~

Cell (b)(6)

TaskForce switchboard: 202-647-6611

P.S. The task force still does have real live people staffing it, especially on our night shift 11:00 PM - 7:00 AM

From: RMTPACTSU_RM [mailto:RMTPACTSU_RM@ofda.gov] Sent: Saturday, March 26, 2011 2:55 PM To: zTask Force 1 Mailbox; RMT_PACTSU Subject: RE: GOJ requests Hydraulic hoses with couplers & radioactive shellding for vehicles as well as additional rprotective clothing

Brian, you have the correct address. We have routed this information to the expanded DART in Tokyo and expect to have some feedback from them our Sunday AM...thanks...Justin

From: Brendel, Brian D [mailto:BrendelBD@state.gov] On Behalf Of zTask Force 1 Mailbox
Sent: Saturday, March 26, 2011 2:47 PM
To: RMT_PACTSU
Subject: FW: GOJ requests Hydraulic hoses with couplers & radioactive sheilding for vehicles as well as additional rprotective clothing

Dear RMT (I believe this is your correct email, please confirm):

. . .

Ambassador Fujisaki told EAP Acting A/S Joe Donovan that at the most recent meeting with the U.S. Embassy in Tokyo, Senior Advisor Hosono and his team requested hydraulic hoses with couplers and radioactive shielding for vehicles, as well as additional radioactive protective clothing.

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From: Green, Christopher L
Sent: Saturday, March 26, 2011 12:40 PM
To: Zumwalt, James P; Campbell, Kurt M
Cc: TaskForce-1 - Japan; JapanEmbassy, TaskForce; Loi, James L; Patel, Nirav S; EAP-J-Office-DL; Tong, Kurt W; Donovan, Joseph R
Subject: 03 26 11 Donovan-Fujisaki meeting notes 1100

A/S Campbell, Jim,

Here are the call notes and action items from today's 11:00 a.m. call with Ambassador Fujisaki.

Regards, Christopher

Christopher Green Office of Japan Affairs U.S. Department of State Tel: (202) 647 2914 Fax: (202) 647 4402

PDAS Donovan call notes with Ambassador Fujisaki, March 26, 1100 And Action Items

GOJ Asks: Ambassador Fujisaki told EAP Acting A/S Joe Donovan that at the most recent meeting with the U.S. Embassy in Tokyo, Senior Advisor Hosono and his team requested hydraulic hoses with couplers and radioactive shielding for vehicles, as well as additional radioactive protective clothing.

Water: Donovan said that Costco has determined they have the capacity to provide up to 7 million bottles of water per week to Tokyo in 100 containers, each holding 70,000 bottles. Ambassador Fujisaki asked if Costco could make a public announcement on the delivery of bottled water.

Robots: Ambassador Fujisaki said that the robots and associated equipment was now going to be transported via Japan Airlines (JAL) and not FedEx. It is scheduled to depart Monday and will arrive Tuesday Japan time.

Barges and Hypothetical Bounding Models: Donovan said two U.S. Navy Barges holding fresh water left the port of Yokosuka on March 25 and 26, respectively, to add capacity to Freshwater + boric Acid spraying onto the reactors. He also said that the instruction cable on the plume models should be sent to Embassy Tokyo today. Ambassador Fujisaki asked how many tons of water. Donovan said we would follow up. (We have subsequently informed the Japanese Embassy that each barge holds 350,000 gallons of fresh water.)

Ambassador Fujisaki said that he thought things were going well with his exchanges with senior U.S. officials. He recently met with Dep Sec Poneman, Administrator Jackson, and Secretary Chu among others.

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KMAX: Donovan requested that in meetings in Tokyo that the GOJ provide a clear plan for usage of the KMAX, and reiterated our request that the GOJ address indemnity issues by invoking the IAEA Convention on Nuclear Disasters.

The Ambassador explained that the GOJ was not familiar with the capabilities of KMAX and that it would be operated by Americans on the ground who would advise the best use for the equipment. This might be a redundancy, but the GOJ would still appreciate it. Donovan asked Ambassador Fujisaki to follow up with Special Advisor Hosono in Tokyo about invoking the IAEA convention. Ambassador Fujisaki said that the GOJ has been reluctant to invoke the Convention.

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The next call with Ambassador Fujisaki is scheduled for Sunday, March 27, at 12:00 p.m.

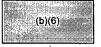
ACTION ITEMS

Bottled Water: Embassy Tokyo: please determine if COSTCO or DART can make a public announcement. **Lockheed Martin KMAX Helicopter:** Request Embassy Tokyo raise indemnity issue.

SBU This email is UNCLASSIFIED. From: Sent: To: Subject: Holahan, Vincent Sunday, March 27, 2011 5:41 PM LIA03 Hoc Re:

Jenny,

Emergency contact is



Thx

Vince

Sent from an NRC Blackberry Vincent Holahan

From: LIA03 Hoc To: Collins, Elmo; Holahan, Vincent Cc: Owen, Lucy; LIA02 Hoc

Sent: Sat Mar 26 16:59:52 2011 Subject:

Elmo and Vince,

Attached is a checklist for your upcoming travel. I know that Vince is just going as far as HI so that a passport is not needed but we've been advised to keep him a part of the "team". We will have you both added to the Liaison Japan distribution list. If you already have an international blackberry, please provide that number. We can get the size of your Outlook mailbox increased if you think it will be helpful (up to 2GB). I will also need emergency contact information from Vince (name (plus their relationship to yourself) and at least one phone number). If there is anything else that the international liaisons can do for you, please let us know. We are here 24/7 to assist!

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Thanks,

-Jenny

From: Sent: To: Subject: Attachments: Hoc, PMT12 Sunday, March 27, 2011 8:45 PM PMT07 Hoc; PMT02 Hoc FW: Palo Verde Nuclear Generating Station Air Sample Results: March 27, 2011 PVNGS Sample Data 20110327.pdf; PVNGS Sample Results 20110327.pdf

From: James.Bungard@aps.com [mailto:James.Bungard@aps.com]
Sent: Sunday, March 27, 2011 8:42 PM
To: Hoc, PMT12
Cc: Mark.Mcghee@aps.com; Marianne.Webb@aps.com; Monica.Ray@aps.com; Maria.Lacal@aps.com; Randall.Edington@aps.com; Robert.Bement@aps.com; Terry.Young@aps.com; Mark.Fallon@aps.com; John.Gaffney@aps.com; Robert.Routolo@aps.com; James.Mcdonnell@aps.com; Thomas.Gray@aps.com
Subject: Palo Verde Nuclear Generating Station Air Sample Results: March 27, 2011

USNRC Headquarters Operations Office/PMT,

Palo Verde Nuclear Generating Station daily effluent sample data sheet and gamma spectroscopy report for March 27, 2011 is attached to this message along with a summary of current and past samples.

Best Regards,

James P. Bungard

Radiation Protection Technical Services Section Leader Radiological Engineering Palo Verde Nuclear Generating Station Mail Station 7663. P.O. Box 52034 Ploenix, Arizona 85072-2034 Tel: 623-393-5007. Fax: 623-393-6640 Cell: Example Color Fax: 623-393-6640 Cell: Example Color Fax: 623-393-6640 E-mail: Janka Rungardatus Storm

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From:	Bungard, James P
To:	Bungard, James P
Subject:	PVNGS Identified Iodine-131 Airborne Radioactivity from Sources External to Palo Verde in the March 27, 2011 Daily Sample
Date:	Sunday, March 27, 2011 5:20:00 PM

Summary:

Airborne activity concentrations at Palo Verde Nuclear Generating Station, due to sources of radiation external to PVNGS, decreased on Sunday, March 27th with only lodine-131 identified at concentrations: 2.22 E-13 uCi/ml (just above the minimum detectable activity concentration)

The calculated integrated dose at PVNGS based on the March 19-27 samples is 0.00761 millirem. This is approximately equivalent to the dose incurred by ingesting % of one banana.

The radioactive potassium (K-40) contained in each average size banana results in approximately 0.01 millirem of internal exposure to an individual. K-40 is present in many fruits, nuts and vegetables in similar concentrations.

NAME OF THE OWNER

Sample Data:

The March 27 sample was obtained over a ~25 hour period (1,495 minutes) beginning on March 26, 2011 at 1315 to March 27, 2011 at 1410. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0449 (particulate) and 2-11-0450 (iodine))

The March 26 sample was obtained over a ~24 hour period (1,415 minutes) beginning on March 25, 2011 at 1340 to March 26, 2011 at 1315. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0444 (particulate) and 2-11-0445 (iodine))

The March 25 sample was obtained over a ~24 hour period (1,460 minutes) beginning on March 24, 2011 at 1320 to March 25, 2011 at 1340. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0440 (particulate) and 2-11-0441 (iodine))

The March 24 sample was obtained over a ~22 hour period (1,345 minutes) beginning on March 23, 2011 at 1455 to March 24, 2011 at 1320. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0436 (particulate) and 2-11-0437 (iodine))

The March 23 sample was obtained over a ~26 hour period (1,535 minutes)

beginning on March 22, 2011 at 1320 to March 23, 2011 at 1455. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0426 (particulate) and 2-11-0427 (iodine))

The March 22 sample was obtained over a ~26 hour period (1,540 minutes) beginning on March 21, 2011 at 1140 to March 22, 2011 at 1320. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0421 (particulate) and 2-11-0422 (iodine))

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The March 21 sample was obtained over a ~24 hour period (1,420 minutes) beginning on March 20, 2011 at 1200 to March 21, 2011 at 1140. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0411 (particulate) and 2-11-0412 (iodine))

The March 20 sample was obtained over a ~21 hour period (1,280 minutes) beginning on March 19, 2011 at 1440 to March 20, 2011 at 1200. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0404 (particulate) and 2-11-0405 (iodine))

The March 19 sample was obtained over a ~25 hour period (1,525 minutes) beginning on March 18, 2011 at 1315 to March 19, 2011 at 1440. The sample was counted using a gamma multichannel analyzer for 30 minutes. (Effluent sample ID numbers 2-11-0401 (particulate) and 2-11-0400 (iodine))

PVNGS RP/Effluents personnel set up air sampling equipment on the Unit 2 Auxiliary Building Roof to obtain particulate and iodine air samples starting on Saturday, March 12, 2011. Particulate and Iodine air samples have been obtained and analyzed on a daily basis. All samples obtained from March 12, 2011 to March 18, 2011 were less than minimum detectable activity for Iodine-131, Cesium-134 and Cesium-137.

Sample results: (~daily sample duration and frequency)

March 27, 2011, 1409: Aux Bldg Roof Particulate: < minimum detectable for all isotopes other than Bi-214, Pb-212 and Pb-214 (Cs-134 <= 1.57E-13 uCi/cc, Cs-137 <= 2.31E-13 uCi/cc)

March 27, 2011, 1410: Aux Bldg Roof lodine-131 = 2.22E-13 uCi/cc (0.22 pCi/m3), Atmospheric conditions moderately cloudy with moderate humidity

March 26, 2011, 1314: Aux Bldg Roof Particulate: < minimum detectable for all isotopes other than Bi-212, Bi-214, Pb-212 and Pb-214 (Cs-134 <= 3.14E-13 uCi/cc, Cs-137 <= 2.23E-13 uCi/cc)

March 26, 2011, 1315: Aux Bldg Roof Iodine-131 = 5.56E-13 uCi/cc (0.56 pCi/m3), Atmospheric conditions partially cloudy with moderately low humidity

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March 25, 2011, 1340: Aux Bldg Roof Particulate: Cs-134 = 3.50E-13 uCi/cc, Cs-137 = 2.62E-13 uCi/cc, < minimum detectable for other isotopes with the exception of naturally-occurring Bi-214, Pb-212 and Pb-214.

March 25, 2011, 1341: Aux Bldg Roof lodine-131 = 1.25E-12 uCi/cc (1.25 pCi/m3), Atmospheric conditions clear to partially cloudy with low humidity

March 24, 2011, 1319: Aux Bldg Roof Particulate: < minimum detectable for all isotopes other than Bi-214, Pb-212 and Pb-214 (Cs-134 <= 2.15E-13 uCi/cc, Cs-137 <= 3.48E-13 uCi/cc)

March 24, 2011, 1320: Aux Bldg Roof lodine-131 = 6.30E-13 uCi/cc (0.63 pCi/m3), Atmospheric conditions clear to partially cloudy with low humidity

March 23, 2011, 1454: Aux Bldg Roof Particulate: < minimum detectable for all isotopes other than K-40 and Pb-212 (Cs-134 <= 2.50E-13 uCi/cc, Cs-137 <= 1.84E-13 uCi/cc)

March 23, 2011, 1455: Aux Bldg Roof Iodine-131 = 7.42E-13 uCi/cc (0.74 pCi/m3), Atmospheric conditions clear to partially cloudy with low humidity

March 22, 2011, 1319: Aux Bldg Roof Particulate: < minimum detectable for all isotopes other than K-40, Bi-214, Pb-212 and Pb-214 (Cs-134 <= 2.76E-13 uCi/cc, Cs-137 <= 2.93E-13 uCi/cc)

March 22, 2011, 1320: Aux Bldg Roof Iodine-131 = 2.01E-12 uCi/cc (2.01 pCi/m3), Cloudy, rainy, high humidity conditions transitioning to clear/partly cloudy with decreasing humidity conditions

March 21, 2011, 1141: Aux Bldg Roof Particulate: < minimum detectable for all isotopes other than K-40 and Pb-212 (Cs-134 <= 2.06E-13 uCi/cc, Cs-137 <= 2.71E-13 uCi/cc)

March 21, 2011, 1140: Aux Bldg Roof Iodine-131 = 6.70E-13 uCi/cc (0.67 pCi/m3), Cloudy, rainy, high humidity conditions throughout the sample period

March 20, 2011, 1201: Aux Bldg Roof Particulate: Cs-134 = 3.87E-13 uCi/cc, < minimum detectable for other isotopes with the exception of naturallyoccurring Bi-214, Pb-212, Pb-214, and Tl-208 (Cs-137 < minimum detectable activity, <= 5.19E-13 uCi/cc) March 20, 2011, 1200: Aux Bldg Roof Iodine-131 = 2.50E-12 uCi/cc (2.50 pCi/m3), Atmospheric conditions in transition from low humidity clear/partial cloudy to mostly cloudy, increasing humidity.

March 19, 2011, 1440: Aux Bldg Roof Particulate < minimum detectable for all isotopes other than K-40 and Pb-212 (Cs-134 <= 2.22E-13 uCi/cc, Cs-137 <= 3.58E-13 uCi/cc)

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March 19, 2011, 1439: Aux Bldg Roof Iodine-131 = 1.54E-12 uCi/cc (1.54 pCi/m3), Atmospheric conditions clear to partially cloudy with low humidity

March 18, 2011, 1315: Aux Bldg Roof Particulate < minimum detectable for all isotopes other than K-40 (Cs-134 <= 2.92E-13 uCi/cc, Cs-137 <= 2.20E-13 uCi/cc)

March 18, 2011, 1316: Aux Bldg Roof Iodine-131 < minimum detectable activity (<= 1.57E-13 uCi/cc), Atmospheric conditions clear to light clouds with low humidity

March 17, 2011, 1320: Aux Bldg Roof Particulate < minimum detectable for all isotopes other than Bi-214, PB-212 and Pb-214 (Cs-134 <= 2.24E-13 uCi/cc, Cs-137 <= 3.12E-13 uCi/cc) (Bi-214, Pb-212 and Pb-214 are naturally-occurring isotopes)

March 17, 2011, 1321: Aux Bldg Roof Iodine-131 < minimum detectable activity (<= 1.58E-13 uCi/cc), Atmospheric conditions clear to light clouds with low humidity

March 16, 2011, 1150: Aux Bldg Roof Particulate < minimum detectable for all isotopes other than K-40, Bi-214, PB-212 and Pb-214 (Cs-134 <= 3.15E-13 uCi/cc, Cs-137 <= 3.50E-13 uCi/cc) (Bi-214, Pb-212 and Pb-214 are naturally-occurring isotopes)

March 16, 2011, 1151: Aux Bldg Roof Iodine-131 < minimum detectable activity (<= 2.55E-13 uCi/cc), Atmospheric conditions clear to light clouds with low humidity

March 15, 2011, 1400: Aux Bldg Roof Particulate < minimum detectable for all isotopes other than K-40, Bi-214, PB-212 and Pb-214 (Cs-134 <= 3.06E-13 uCi/cc, Cs-137 <= 2.88E-13 uCi/cc) (Bi-214, Pb-212 and Pb-214 are naturally-occurring isotopes)

March 15, 2011, 1401: Aux Bldg Roof Iodine-131 < minimum detectable activity (<= 1.78E-13 uCi/cc), Atmospheric conditions clear to light clouds with low

humidity

March 14, 2011, 1530: Aux Bldg Roof Particulate < minimum detectable for all isotopes other than K-40, Bi-214, PB-212 and Pb-214 (Cs-134 <= 2.04E-13 uCi/cc, Cs-137 <= 2.00E-13 uCi/cc) (Bi-214, Pb-212 and Pb-214 are naturally-occurring isotopes)

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March 14, 2011, 1531: Aux Bldg Roof Iodine-131 < minimum detectable activity (<= 1.77E-13 uCi/cc), Atmospheric conditions clear to light clouds with low humidity

March 13, 2011, 0839: Aux Bldg Roof Particulate < minimum detectable for all isotopes other than Bi-214, PB-212 and Pb-214 (Cs-134 <= 3.63E-13 uCi/cc, Cs-137 <= 2.72E-13 uCi/cc) (Bi-214, Pb-212 and Pb-214 are naturally-occurring isotopes)

March 13, 2011, 0840: Aux Bldg Roof Iodine-131 < minimum detectable activity (<= 2.09E-13 uCi/cc), Atmospheric conditions clear to light clouds with low humidity

The samples running from March 27 to March 28 should be removed from sampling equipment for analysis this afternoon (March 28).

Current I-131 concentrations, as of March 27, 2011 = 2.22E-13 uCi/cc. This is 0.11% of the 10CFR20, Appendix B, Table 2 value for effluent concentrations in air (2.00E-10 uCi/cc) and 0.0011% of the occupational value (2.00E-08 uCi/cc).

Note that I-131 in air at 1.25E-12 uCi/cc, if inhaled or ingested continuously over the course of one calendar year, would produce a total effective dose equivalent of 0.0555 millirem (0.000555 millisieverts).

Maximum I-131 and Cs-134 Airborne Concentrations were identified on Sunday, March 20, 2011. The maximum Cs-137 Airborne Concentration was identified on Friday, March 25, 2011:

The lodine-131 identified on March 20, 2011 was 2.50E-12 uCi/cc. This is 1.25% of the 10CFR20, Appendix B, Table 2 value for effluent concentrations in air (2.00E-10 uCi/cc) and 0.0125% of the occupational value (2.00E-08 uCi/cc).

Note that I-131 in air at 2.50E-12 uCi/cc, if inhaled or ingested continuously over the course of one calendar year, would produce a total effective dose equivalent of 0.625 millirem (0.00625 millisieverts).

The Cesium-134 identified on March 20, 2011 was 3.87E-13 uCi/cc. This is

0.194% of the 10CFR20, Appendix B, Table 2 value for effluent concentrations in air (2.00E-10 uCi/cc) and 0.00194% of the occupation value (4.00E-08 uCi/cc).

Note that Cs-134 in air at 3.87E-13 uCi/cc, if inhaled or ingested continuously over the course of one calendar year, would produce a total effective dose equivalent of 0.0968 millirem (0.000968 millisieverts).

The Cesium-137 identified on March 25, 2011 is 2.62E-13 uCi/cc. This is 0.131% of the 10CFR20, Appendix B, Table 2 value for effluent concentrations in air (2.00E-10 uCi/cc) and 0.00044% of the occupation value (6.00E-08 uCi/cc).

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Note that Cs-137 in air at 2.62E-13 uCi/cc, if inhaled or ingested continuously over the course of one calendar year, would produce a total effective dose equivalent of 0.0655 millirem (0.000655 millisieverts).

Note that the sum of the maximum identified I-131, Cs-134 and Cs-137 in air, if inhaled or ingested continuously over the course of one calendar year would produce a total effective dose equivalent of 0.7873 millirem (0.007873 millisieverts).

Therefore, there is negligible impact to PVNGS occupational personnel and members of the public at PVNGS and surrounding areas.

(The annual total effective dose equivalent of 0.7873 millirem is approximately equivalent to ingesting 79 bananas over the course of a calendar year. The radioactive potassium, K-40, contained in each average size banana results in approximately 0.01 millirem of internal exposure to an individual. K-40 is present in many fruits, nuts and vegetables in similar concentrations.)

Integrated dose based on the March 19, 20, 21, 22, 23, 24, 25, 26 and 27, 2011 sample results.

The following data assumes the airborne concentration for I-131 (and Cs-134 as applicable) was inhaled/ingested continuously for a 24-hour period with the sample results applied for the entire day and that one year equals 365.25 days:

March 27: I-131 at 2.22E-13 uCi/cc: 0.00038 millirem TEDE, Cs-134: 0 millirem TEDE, Total = 0.00015 millirem TEDE

March 26: I-131 at 5.56E-13 uCi/cc: 0.00038 millirem TEDE, Cs-134: 0 millirem TEDE, Total = 0.00038 millirem TEDE

March 25: I-131 at 1.25E-12 uCi/cc: 0.00086 millirem TEDE, Cs-134

at 3.50E-13 uCi/cc: 0.00024 millirem TEDE, Cs-137 at 2.62E-13 uCi/cc: 0.00018 millirem, Total = 0.00127 millirem TEDE

March 24: I-131 at 6.30E-13 uCi/cc: 0.00043 millirem TEDE, Cs-134: 0 millirem TEDE, Total = 0.00043 millirem TEDE

March 23: I-131 at 7.42E-13 uCi/cc: 0.00051 millirem TEDE, Cs-134: 0 millirem TEDE, Total = 0.00051 millirem TEDE

March 22: I-131 at 2.01E-12 uCi/cc: 0.00138 millirem TEDE, Cs-134: 0 millirem TEDE, Total = 0.00138 millirem TEDE

March 21: I-131 at 6.70E-13 uCi/cc: 0.00046 millirem TEDE, Cs-134: 0 millirem TEDE, Total = 0.00046 millirem TEDE

March 20: I-131 at 2.50E-12 uCi/cc: 0.00171 millirem TEDE, Cs-134 at 3.87E-13 uCi/cc: 0.00026 millirem TEDE, Total = 0.00198 millirem TEDE

March 19: I-131 at 1.54E-12 uCi/cc: 0.00105 millirem TEDE, Cs-134: 0 millirem TEDE: Total = 0.00105 millirem TEDE

Total: 0.00761 millirem

Weekly Effluent Results from PVNGS Fuel Building Exhaust and Auxiliary Building Exhaust:

PVNGS Effluents is currently seeing positive I-131 and CS-134 activity on RU-145 sample media in all 3 units. PVNGS Effluents is also seeing CS-137 in units 2 & 3. This activity is most likely from the Fukushima Daiichi incident. This activity is being included in PVNGS effluent release permits. A note is being added in the comments section of the permit (and CLASS: Chemistry Laboratory Analysis Storage System) stating the I-131, CS-134 & CS-137 activity identified on the sample media used for the permit is suspected to be from the Fukushima Daiichi incident. Also the sample number for the most recent Unit 2 Auxiliary Building roof sample is being included as a reference. The identified activity is consistent with the samples taken outside on the PVNGS Unit 2 Auxiliary Building roof and is consistent between all three PVNGS units.

March 24 Update: PVNGS Effluents is also seeing positive I-131 only (no Cs-134 and/or Cs-137) on RU-143 sample media in all 3 units.

The weekly (3/15/2011 to 3/22/2011) Fuel Building effluent filter change-outs identified I-131, Cs-134 and Cs-137:

uCi/cc I-131	Cs-134	Cs-137
Unit 1 1.16E-12	4.84E-14	<3.54E-14
Unit 2 1.18E-12	5.80E-14	5.55E-14
Unit 3 1.21E-12	4.64E-14	6.11E-14

The weekly (3/17/2011 to 3/24/2011) Auxiliary Building effluent filter changeouts identified I-131 only:

uCi/cc I-131	Cs-134	Cs-137
Unit 1 5.90E-13	<2.76E-14	<2.47E-14
Unit 2 5.13E-13	<2.99E-14	<3.34E-14
Unit 3 5.82E-13	<1.56E-14	<2.89E-14

Comparison with Recent Arizona Radiation Regulatory Agency (ARRA) Environmental Sample Data:

ARRA 3-day samples (March 19-21) obtained on March 21, 2011, at seven separate locations in the vicinity of PVNGS ranged from 1.2 pCi/m3 I-131 to 3.6 pCi/m3 I-131.

In comparison, daily samples obtained at PVNGS Unit 2 Auxiliary Building Roof ranged from 1.5 pCi/m3 I-131 to 2.5 pCi/m3 I-131 on March 19 and 20. (The March 21 sample, 0.7 pCi/m3, was most likely affected by rain-out.) Thus, there is good correlation between ARRA and PVNGS sample results obtained in the vicinity of Palo Verde Nuclear Generating Station.

Long Term Radiological Environmental Monitoring Program Results Summary:

This information is contained in PVNGS Annual Radiological Environmental Operating Reports. The most recent report available is for calendar year 2009. The 2010 report is currently being developed:

Pertinent weekly sample results are listed on pages 28 through 32, 45, 46, and 58 of the 2009 annual report. (Similar page numbers in prior reports).

2010 Weekly Airborne Particulates: Gamma composites < LLD with mean Cs-134 LLD of 5E-14 uCi/cc, Cs-137 LLD of 6E-14 uCi/cc (preliminary data, report in development)

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2010 Weekly Airborne Radioiodine: All samples < LLD with a mean LLD of 7E-14 uCi/cc (preliminary data, report in development)

2009 Weekly Airborne Particulates: Gamma composites < LLD with mean Cs-134 LLD of 5E-14 uCi/cc, Cs-137 LLD of 6E-14 uCi/cc

2009 Weekly Airborne Radioiodine: All samples < LLD with a mean LLD of 7E-14 uCi/cc

2008 Weekly Airborne Particulates: Gamma composites < LLD with mean Cs-134 LLD of 5E-14 uCi/cc, Cs-137 LLD of 6E-14 uCi/cc

2008 Weekly Airborne Radioiodine: All samples < LLD with a mean LLD of 7E-14 uCi/cc

2007 Weekly Airborne Particulates: Gamma composites < LLD with mean Cs-134 LLD of 5E-14 uCi/cc, Cs-137 LLD of 6E-14 uCi/cc

2007 Weekly Airborne Radioiodine: All samples < LLD with a mean LLD of 7E-14 uCi/cc

2006 Weekly Airborne Particulates: Gamma composites < LLD with mean Cs-134 LLD of 5E-14 uCi/cc, Cs-137 LLD of 6E-14 uCi/cc

2006 Weekly Airborne Radioiodine: All samples < LLD with a mean LLD of 7E-14 uCi/cc

James P. Bungard

Radiation Protection Technical Services Section Leader

Radiological Engineering

Palo Verde Nuclear Generating Station

Mail Station 7663, P.O. Box 52034

Phoenix, Arizona 85072-2034

Tel: 623-393-5007, Fax: 623-393-6640



Pager: 1-877-403-1991

E-mail: James.Bungard@aps.com

EAK TEST (CIRCLE ONE) SAT / UNSAT SIGNATURE N/A DATE / TIME N/A INITIATION TERMINATION VOLUME P. Rein P. Rein VOLUME (STARTED BY) (STOPPED BY) NOBLE GAS N/A DATE 03/26/2011 DATE 03/27/2011 PARTICULATE 8.46E+07 TIME 1315 TIME 1410 IODINE 8.12E+07 FLOW 2 cfm //lpm / ccm FLOW 2 cfm //lpm / ccm M&TE # N/A TOTALIZER VALUE N/A H ³ LIQUID N/A			Ef	fluent	Sam	ple Da	ita Shee	et		
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DATE 03/26/2011 DATE 03/27/2011 PARTICULATE 8.46E+07 TIME 1315 TIME 1410 IODINE 8.12E+07 FLOW 2 cim //pm / ccm FLOW 2 cim N/A M&TE 4 N/A TOTALIZER VALUE N/A ft ³ LIQUID N/A M&TE cal DUE DATE N/A DURATION 1495 min AVG. FLOW 2 cim //pm / cc ILATE OUT FACTORS : PARTICULATE 1 IODINE 0.96 1 RITIUM BUBBLER: EFFICIENCY 95 % WATER VOLUME N/A cc This section AR.Pump flow (cfm) AR.Pump flow (cfm) AR.Pump flow (cfm) N/A ARN-P01 A-F129 ARN-P01 C-F131 ARN-P01 D-F132 ARN-P01 D-F132 ARN-P01 D-F132 ARN-P01 D-F132 PARTICULATE VOLUME = AVERAGE FLOW (CFM) X DURATION X 2.83 E4 X PLATE OUT FACTOR IODINE VOLUME = AVERAGE FLOW (CFM) X DURATION X 2.83 E4 X PLATE OUT FACTOR IODINE VOLUME = CONTAINER X 2.83 E4 X PLATE OUT FACTOR IODINE VOLUME = AVERAGE FLOW (CFM) X DURATION X 2.83 E4 X PLATE OUT FACTOR O2% N/A <		P. Rein				P. Rein				
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M&TE CAL DUE DATE N/A DURATION 1495 min AVG. FLOW 2 (im) / (m) / (c) ALATE OUT FACTORS : PARTICULATE 1 IODINE 0.96 IRITIUM BUBBLER : EFFICIENCY 95 % WATER VOLUME N/A cc Image: Contract in the image: Co	FLOW	2 (cfm) / 1	pm / ccm	FLOW	2	(cfm) /	lpm / ccm	TRITIUM	N	A c
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(OR) TOTALIZER X 2.83 E4 X PLATE OUT FACTOR NOBLE GAS VOLUME = CONTAINER VOLUME (cc) TRITIUM VOLUME = AVERAGE FLOW RATE (cc/min) X DURATION SAVE PARTICULATE FILTER FOR COMPOSITE : YES NO N/A (CIRCLE ONE) SPECIAL INSTRUCTIONS/COMMENTS : O ₂ % N/A ANALYZED BY : P Rein	PA	X	ARN-P0	1 B-FI30	W (CFM)) X DURATI			ACTOR	
TRITIUM VOLUME = AVERAGE FLOW RATE (cc/min) X DURATION SAVE PARTICULATE FILTER FOR COMPOSITE : YES NO N/A (CIRCLE ONE) SPECIAL INSTRUCTIONS/COMMENTS : O2% N/A ANALYZED BY : P Rein REVIEWED BY : O 2 M	P/	ARTICULATE VOLU	ARN-P0 ME = AV DR) TO	1 B-FI30 ERAGE FLO TALIZER X 2	2.83 E4 X	PLATE OU	DN X 2.83 E4 2 T FACTOR	X PLATE OUT F		
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Nuclide Line Activity Report Sample ID : 2110449

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Nuclide Type: natural

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				Uncorrected Decay Corr	1-Sigma
	Area	%Abn		uCi/ce uCi/ce	&Error-
74.81		10.70	4.131E+00	Eine Not Found	
77.11	51	18.00	4.337E+00		26.63
238.63	109	44.60*	3.5733+00	1.208E-12 2.559E-12	13.30
300.09		3.41	2.804E+00		
79.29		0.60	4.517E+00		
60 <u>9</u> ,31	23	46.30*	1.293E+00		33.74
806.17		1.23	9.603E-01		
934:06	**	3.21	8.231E-01		
1120.29		15.10	6.819E-01		
1155.19		1.70	6.6088-01		
1238.11		5.94	6.157E-01		
1377.67		4.11	5.528E-01		
1401.50		1.39	5.434E-01		
1407.98		2.49	5.4108-01		
1729.59		2.97	4.433E-01		
1764.49		15.80	4.351E-01		
1847.42		2.09	4.172E-01		مدد. میں روم موجود ہو ہے ۔
87.30					
241.98					
295.21					
351,92	19				47.45
	Energy 74.81 77.11 238.63 300.09 79.29 609.31 806.17 934.06 1120.29 1155.19 1238.11 1377.67 1401.50 1407.98 1729.59 1764.49 1847.42 87.30 241.98	Energy Area 74.81 77.11 51 238.63 109 300.09 79.29 609.31 23 806.17 934.06 1120.29 1155.19 1238.11 1377.67 1401.50 1729.59 1764.49 1764.49 87.30 241.98 295.21 19	EnergyArea% Abn74.8110.7077.115118.00238.6310944.60*300.093.4179.290.60609.312346.30*806.173.21120.2915.101155.191.701238.115.941377.674.111401.502.491729.592.971764.4915.801847.422.0987.304.67241.9819.20351.921937.20*	EnergyArea%Abn%Eff74.8110.704.131E+0077.115118.004.337E+00238.6310944.60*3.573E+00300.093.412.804E+0079.290.604.517E+00609.312346.30*1.293E+00806.171.239.603E-01934.063.218.231E-011120.2915.106.819E-01155.191.706.608E-011238.115.946.157E-011377.674.115.528E-011401.502.495.410E-011729.592.974.433E-011764.4915.604.351E-011847.422.094.172E-0187.304.675.053E+00241.987.493.523E+00295.2119.202.855E+00351.921937.20*2.355E+00	EnergyArea%Abn%EifuCi/ccuCi/cc 74.81 10.70 4.131 ± 00 Ifine Not Found 77.11 51 18.00 4.337 ± 00 $1.155E-12$ $2.445E-12$ 238.63 109 $44.60*$ 3.573 ± 00 $1.208E-12$ $2.559E-12$ 300.09 3.41 2.804 ± 00 Line Not Found 79.29 0.60 4.5172 ± 00 Line Not Found 609.31 23 $46.30*$ 1.293 ± 00 $6.819E-13$ $1.490E-10$ 806.17 1.23 $9.663E-01$ Line Not Found 934.06 3.21 $8.231E-01$ Line Not Found 1120.29 15.10 $6.819E-01$ Line Not Found 1238.11 5.94 $6.157E-01$ Line Not Found 1377.67 1.39 $5.434E-01$ Line Not Found 1407.98 2.97 $4.433E-01$ Line Not Found 1729.59 2.97 $4.433E-01$ Line Not Found 1847.42 2.09 $4.172E-01$ Line Not Found 1847.42 2.09 $4.172E-01$ Line Not Found 1847.42 2.09 $4.172E-01$ Line Not Found 25.21 19.20 $2.855E+00$ Line Not Found 295.21 <td< td=""></td<>

Flag: "*" = Keyline

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Unidentified Sample ID : 2	Energy 2 2110449	Lines		Ac	quisi	tior	n date : 1	27-MAR	Page -2011 14	; <u> </u>
It Energy	Area	Bkgnd	FWDM	Channel	Left	₽w	Cts/Sec	%Err	%⊡ff	Flags
0 511.26 0 583.27	11 31	8 0	0.96 1.51	1021.92 1165.94	1017 1161	11 9	6.32E-03 1.72E-02	56.8 18.0	1.56E+0 1.36E+0	0 T 0 T -
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Rejected Report Sample ID : 2110449			Page :
Half-Life	Energy %Abund 277.33 6.80 510.84 21.60 583.14* 84.20	isition date : 27-M Activity 1-Sigma (uCl/cc) %Error Not Found 7.133E-07 57.04 5.758E-07 18.81 Not Found	Rejected by
% Abundances	Found = 84.60		ar an
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Summary of Nuclide Activity Page Sample ID : 2110449 Acquisition date : 27-MAR-2011 14:37:28 Total number of lines in spectrum 6 Number of unidentified lines 0 Number of lines tentatively identified by NID 6 100.00% Nuclide Type : natural Uncorrected Decay Corr 1-Sigma Decay Corr Nuclide Hlife 1-Sigma Error %Error Flags Decay uCi/cc uCi/cc PB-212 10.64H 2.12 1.208E-12 2.559E-12 0.340E-12 13.30 BI-214 19.90M 219. 6.819E-13 33.74 1.490E-10 0.5038-1.0 A PB-214 3.767E-13 26.80M 2.022E-11 47.45 A 113. 4.262E-11 ______ -----2.267E-12 Total Activity : 1.942E-10 SurGrand Total Activity : 2.267E-12 1.942E-10 Same Flags: "K" = Keyline not found "M" = Manually accepted 410 "E" = Manually edited "A" = Nuclide specific abn. limit - Nije 11 õi ... C Noc 19. 131 - 1 9. A. A. $\mathcal{V}^{1} \rightarrow \mathcal{V}$ 1111 1.1 $\mathcal{M} = \mathbb{R}^{d}$ 5. A ·:: . .

Minimum Detectable Activity Report Sample ID : 2110449

Page : 6 Acquisition date : 27-MAR-2011 14:37:28

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Nuclide	Sum	(keV)	(uCL/cc)
MN - 54	1.	834.83	1.4118E-13
MN-54 CO-58	3.	810.76	2.02808-13
FF-59	1.	1099.22	3.3501E-13
CO-60	3.	1332.49	3.3407E-13
ZN-65		1115.52	3.7603E-13
MO 99	18.	140.51	9.3403E-14
<u>7</u> -131	10.	364.48	1.7634E-13
ĊS-134	1.	795.84	1.5705E-13
CS-137	5.	661.65	2.3075E-13
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Gamma Spectroscopy Report generated at Unit 2 on 27-MAR-2011-15:10:12 DKA200: [USER.CHEM.SCUSR.ARCHIVE] SMP_2110450_DET2_CCART1_10109.CNF;1 Sample Title : AUX ROOF CART CAD 13 Sample Number : 2110450Sample Volume : 8.12000E+07 cc Library : CART Geometry -: CCART1 : 27-MAR-2011 14:10:00 Acquisition Date : 27-MAR-2011 14:39:43 Sample Date Elapsed Live Time: 0 00:30:00.00 Dead Time : 0.0% Deposition Start : 26-MAR-2011 13:15:00.Deposition Period: 1 00:55:00.00 0 00:29:43.39 Sample Deposition: Yes Decay Time : NIA NIA Completed by: Reviewed by: Post-NID Peak Search Report Bkgnd FWEM Channel Left Fit Nuclides Energy Area Pw & Str Ιt I-131 364.12 5 1.04 727.84 723 0 16 10 36.5 138.A 88.05 Sam Dit. Sam 1.00 S.alto Contaign Rest 1.1 į. $\pm a/\delta_{1}$ Since Magar 1.000 Side. [1] $\sum_{i=1}^{n} e_{i}$ 1.12.14 the states ÷. : 1. 2.

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Rejected Report Sample ID : 2110450

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Summary of Nuclide Activity Page : Acquisition date : 27-MAR-2011 14:39:4 Sample ID : 2110450 Total number of lines in spectrum 7 Number of unidentified lines 0 Number of lines tentatively identified by NID 1 100.00% Nuclide Type : halogen Uncorrected Decay Corr Decay Corr 1-Sigma 1-Sigma Error & Error Flags Nuclide Hlife Decay uCi/cc uCi/cc 36.66 0.8132-13 I-131 8.04D 1.05 2.116E-13 2.218E-13 -----2.116E-13 -Total Activity : 2,218E-13 Grand Total Activity : 2.116E-13 2.218E-13 "M" = Manually accepted Flags: "K" = Keyline not found "A" = Nuclide specific abn. limit 32 IL "E" = Manually edited 1.64 Art E. $\mathcal{M}(\mu)$ 20.00° 5 1

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	dtable Activity 2110450	Report. Ac	quisition date :	27-MAR-2	Page : 6 011 14:39:43
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Weber, Michael Monday, March 28, 2011 10:47 AM LIA06 Hoc; LIA08 Hoc FYI - 28MAR11 TELECONFERENCE on Nuclear technology activities 202-395-6392 PIN:

From: Hoc, PMT12 Sent: Monday, March 28, 2011 10:46 AM To: Weber, Michael; PMT01 Hoc Cc: ET07 Hoc; ET05 Hoc; OST02 HOC; FOIA Response.hoc Resource Subject: RE: ACTION - 28MAR11 TELECONFERENCE on Nuclear technology activities 202-395-6392 PIN:

The PMT has been participating in both the 12:30 NTAG meeting and the Advisory Team meeting at 2:00 daily as well.

From: Weber, Michael
Sent: Monday, March 28, 2011 10:44 AM
To: PMT01 Hoc; Hoc, PMT12
Cc: ET07 Hoc; ET05 Hoc; OST02 HOC; FOIA Response.hoc Resource
Subject: ACTION - 28MAR11 TELECONFERENCE on Nuclear technology activities 202-395-6392 PIN: ((b)(6)(6))

From: LIA08 Hoc Sent: Monday, March 28, 2011 10:35 AM To: Weber, Michael; LIA06 Hoc Subject: FW: 28MAR11 TELECONFERENCE on Nuclear technology activities 202-395-6392 PIN: ((b)(6))

Lets figure out who runs this call for us. I think it's the ET, as it involves the white house. Jeff temple

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From: Bentz, Julie A. [mailto:	(b)(6)	
Sent: Monday, March 28, 2011 9:51 A	M	
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Subject: 28MAR11 TELECONFERENCE on Nuclear technology activities 202-395-6392 PIN: (b)(6)

The next NTAG teleconference will be today (Monday, March 28) at **3:30pm** (note new time). Dial in info and agenda provided below.

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Phone number: 202-395-6392 Passcode: (NEW) 1. A. 155

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Agenda

- 1. Roll Call
- 2. A-Team Cargo Screening Guidance
- 3. CBP Release Guidance
- 4. NRC Re-entry guidance
- 5. Data accessibility for CDC/FDA/DHS/PACOM
- 6. Outstanding items and due outs

Attached please find:

- 1. CBP Release Guidance (OUO)
- 2. NRC temporary re-entry guidance for the 50 mile exclusion zone
- 3. A-Team Cargo Screening Guidance
- 4. Food PAGS overview
- 5. Japan Spectrum Compilation as of 25 Mar (OUO)

Thanks! Julie

COL(P) Julie A Bentz Director for Nuclear Defense Policy National Security Staff EEOB 379 1650 Pennsylvania Ave NW Washington DC 20502 114

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From:LIA08 HocSent:Monday, March 28, 2011 10:49 AMTo:Harrington, Holly; LIA11 HocCc:Tom Vavoso; LIA01 Hoc; LIA06 HocSubject:RE: Request for OFFICIAL Statement (Operation Tomadachi)

Thanks Holly. We will close this by asking the person from the air base in japan to use his chain of command and call Lt COL Eric Price of PA COM. Jeff Temple

From: Harrington, Holly
Sent: Monday, March 28, 2011 10:46 AM
To: LIA11 Hoc
Cc: Tom Vavoso; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc
Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

I would think either someone from DOD could respond directly to this individual or perhaps you can ask him to go through his chain of command?

From: LIA11 Hoc

Sent: Monday, March 28, 2011 10:43 AM To: Harrington, Holly Cc: Tom Vavoso; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

Holly,

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DoD has a few POCs including an embedding Naval Reactors Liaison at the NRC Ops Center who currently is Thomas Varoso on watch.

Other DoD involved include:

PACOM POC: include LCDR Young (808-477-9593), LCOL Okumora (808-477-9543), LCOL Eric Price (808-477-8088). OSD (Office of Secretary of Defense) POC: Crisis Manager, Joe Brooks (703-571-8952 OSTP POC: Director for Nuclear Defense Policy, COL(P) Julie Bentz (b)(6) Dentagon Japan Crisis Action Team POC: (703-614-3323), p

Although the NRC has been acting as a clearing house for information, perhaps Mr. Sparkman's RFI needs to go through his Chain of Command?

I can contact him if you need me to complete further action on this item. NR's representative, is cc'ed on this e-mail as well.

Let me if you need me to assist further.

Jason Lising Federal Liaison Team 301-816-5186

From: Harrington, Holly Sent: Monday, March 28, 2011 9:53 AM **To:** LIA11 Hoc; Hoc, PMT12; PMT03 Hoc; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc **Subject:** RE: Request for OFFICIAL Statement (Operation Tomadachi)

I'm sure PMTs could help. Bigger picture question – should this kind of question be answered by the NRC? Do we not have a DoD contact to which we can refer? I presume DoD would have standards to follow . . .

Holly

From: LIA11 Hoc Sent: Monday, March 28, 2011 9:52 AM To: Harrington, Holly; Hoc, PMT12; PMT03 Hoc; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

Holly,

Looks like an RFI (request for information) that our PMT folks would handle. I am including them on this forward and will follow up to see if they can provide the requested information to Mr. Sparkman.

Jason Lising Federal Liaison Team

From: Harrington, Holly Sent: Monday, March 28, 2011 9:38 AM To: LIA11 Hoc Subject: FW: Request for OFFICIAL Statement (Operation Tomadachi)

Can you assist?

From: Janbergs, Holly On Behalf Of OPA Resource
Sent: Monday, March 28, 2011 9:04 AM
To: Harrington, Holly
Subject: FW: Request for OFFICIAL Statement (Operation Tomadachi)

From: Sparkman, Steven F CW04 USMC [mailto: Sent: Friday, March 25, 2011 8:24 PM To: OPA Resource Cc: JFLCC_CBRN; USFJ-CAT-RCMT Subject: Request for OFFICIAL Statement (Operation Tomadachi)

Hello from Yakota Air Base Japan. 1 am the III MEF (JFLCC, JTF-505) CBRN Officer overseeing the CBRN response for Operation Tomadachi. 1 need the following from your organization:

1. An OFFICIAL statement telling me what Radiation level I use for decontamination procedures.

a. This would be the level I would use, in relation to the Background reading at the specific location, to determine whether the item is safe, or needs decontamination.

2. Please ensure you send all reading in **mRem**

Example: Yamagata Japan has a Back ground reading of .019 mRem. The current (most recent) reading at that position is .044 mRem. I need to know if this level requires Decontamination. If it does, what is the level I need to decon it to?

Again, please send all readings in mRem.

There is an immediate need for this, please call (b)(6)

R/S,

Steven F. Sparkman

JFLCC CBRN Officer

III MEF CBRN Officer

(b)(6)

Subject: Location:	FW: FW: 2011 Pacific Basin Earthquake/Tsunami ESF-8 Conference Call Phone: 877-700-1237 and Passcode: (()(6)))/International TOLL NUMBER: 1-210-339-7059 Passcode: ()()(6))
Start:	Mon 3/28/2011 11:00 AM
End:	Mon 3/28/2011 12:00 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	OS Secretarys Operations Center
Sent: Saturday, March To: OS Secretarys Ope - Subject: FW: 2011 Pac When: Monday, March	ehalf Of OS Secretarys Operations Center 26, 2011 12:08 PM
Sent: Saturday, March Cc: 'Woodard, Thomas Subject: 2011 Pacific When: Monday, March	Dperations Center [<u>mailto:hhs.soc@hhs.gov]</u> 26, 2011 11:39 AM
2011 Pacific Bas	in Earthquake/Tsunami ESF-8 Conference Call

AGENDA

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Phone: 877-700-1237 and Pass code: (1006) (International Callers) TOLL NUMBER: 1-210-339-7059 PARTICIPANT PASSCODE:

Objective: Discussion of current response operations and future actions.

Japan Weather Updates:

HHS – Opening Comment - Quick summary on any HHS issues/concerns

<u>Regions:</u> R9 update R10 update

EMG Updates: EMG OPS/FIELD OPS/OFRD OPS EMG Logs EMG Plans EMG A/F Public Affairs Nitin State Call

Other OPDIVs/STAFF DIVs: FDA update CDC update ACF update

Supporting Agencies: DOS update NRC update USDA update EPA update FAA update OSHA update ARC update Canadian update NORTHCOM update

Other supporting Agencies update

Questions:

Adjournment & Closing Comments: Time for the next conference call: 1100EDT; TBD ことまたので、後にしていたのか

From: Sent:	PMT03 Hoc Monday, March 28, 2011 12:46 PM
To:	Hoc, PMT12
Subject:	FYI: Request for OFFICIAL Statement (Operation Tomadachi)
Attachments:	FW: ; RE: Request for OFFICIAL Statement (Operation Tomadachi)

This was a request for PMT assistance from Liaison team that was ultimately referred to internal military chain of command. PMT has no action.

From: LIA11 Hoc Sent: Monday, March 28, 2011 12:09 PM To: PMT03 Hoc Subject: RE: Request for OFFICIAL Statement (Óperation Tomadachi)

Sorry 'bout that Duane, didn't cc you guys on the closure of this action item, but the attached e-mails explains that the individual was redirected to use his CoC through the DoD to request the information.

Consider the item closed.

Thanks.

Jason

From: PMT03 Hoc Sent: Monday, March 28, 2011 12:06 PM To: LIA11 Hoc Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

Jason: Can you please enter this as a tasker so it is assigned for action. Thanks

From: LIA11 Hoc
Sent: Monday, March 28, 2011 9:52 AM
To: Harrington, Holly; Hoc, PMT12; PMT03 Hoc; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc
Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

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Holly,

Looks like an RFI (request for information) that our PMT folks would handle. I am including them on this forward and will follow up to see if they can provide the requested information to Mr. Sparkman.

Jason Lising Federal Liaison Team

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From: Harrington, Holly Sent: Monday, March 28, 2011 9:38 AM To: LIA11 Hoc Subject: FW: Request for OFFICIAL Statement (Operation Tomadachi)

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From:Harrington, HollySent:Monday, March 28, 2011 3:20 PMTo:Hoc, PMT12; LIA11 Hoc; PMT03 Hoc; LIA01 Hoc; LIA06 Hoc; LIA08 HocSubject:RE: Request for OFFICIAL Statement (Operation Tomadachi)

Please note the person writing was in the U.S. Military stationed in Japan; he was referred to his chain of command. (He was a CBRN Officer not part of CPB.)

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However, this is good news in terms of contaminated items and customs. From: Hoc, PMT12 Sent: Monday, March 28, 2011 2:27 PM To: Harrington, Holly; LIA11 Hoc; PMT03 Hoc; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

Holly/Liaison Team

The EPA is taking the lead on this action. In fact, the EPA is taking the lead in coordination with the Advisory team (DHS/CDC/DOE/EPA) to develop criteria for release of contaminated items that will be used by the CPB and would seem to be applicable here. As of our 2:00 call, the document is still being worked.

Therefore, the correct folks to ask would be EPA.

PMT

From: Harrington, Holly Sent: Monday, March 28, 2011 9:53 AM To: LIA11 Hoc; Hoc, PMT12; PMT03 Hoc; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

I'm sure PMTs could help. Bigger picture question – should this kind of question be answered by the NRC? Do we not have a DoD contact to which we can refer? I presume DoD would have standards to follow . . .

Holly

From: LIA11 Hoc
Sent: Monday, March 28, 2011 9:52 AM
To: Harrington, Holly; Hoc, PMT12; PMT03 Hoc; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc
Subject: RE: Request for OFFICIAL Statement (Operation Tomadachi)

Holly,

Looks like an RFI (request for information) that our PMT folks would handle. I am including them on this forward and will follow up to see if they can provide the requested information to Mr. Sparkman.

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Jason Lising Federal Liaison Team From: Harrington, Holly Sent: Monday, March 28, 2011 9:38 AM To: LIA11 Hoc Subject: FW: Request for OFFICIAL Statement (Operation Tomadachi)

Can you assist?

From: Janbergs, Holly On Behalf Of OPA Resource
Sent: Monday, March 28, 2011 9:04 AM
To: Harrington, Holly
Subject: FW: Request for OFFICIAL Statement (Operation Tomadachi)

From: Sparkman, Steven F CW04 USMC [mailto: Sent: Friday, March 25, 2011 8:24 PM To: OPA Resource Cc: JFLCC_CBRN; USFJ-CAT-RCMT Subject: Request for OFFICIAL Statement (Operation Tomadachi)

Hello from Yakota Air Base Japan. 1 am the III MEF (JFLCC, JTF-505) CBRN Officer overseeing the CBRN response for Operation Tomadachi. 1 need the following from your organization:

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1. An OFFICIAL statement telling me what Radiation level I use for decontamination procedures.

a. This would be the level I would use, in relation to the Background reading at the specific location, to determine whether the item is safe, or needs decontamination.

2. Please ensure you send all reading in mRem

Example: Yamagata Japan has a Back ground reading of .019 mRem. The current (most recent) reading at that position is .044 mRem. I need to know if this level requires Decontamination. If it does, what is the level I need to decon it to?

Again, please send all readings in mRem.

There is an immediate need for this, please call (b)(6)

R/S,

Steven F. Sparkman

JFLCC CBRN Officer

III MEF CBRN Officer

(b)(6)

From: Coons, Albert <albert.coons@dhs.gov> Sent: Monday, March 28, 2011 1:59 PM To: LIA05 Hoc Subject: **RE: RPM Supplement 4 Impact Paper NREP Presentation** Thank you Albert Coons Lead Program Specialist HQ/NPD-THD-REPP FEMA 202-212-2318 (b)(6); (cell) 703-305-0837 (fax) E-mail: albert.coons@dhs.gov From: prvs=0610c37e9=LIA05.Hoc@nrc.gov [mailto:prvs=0610c37e9=LIA05.Hoc@nrc.gov] On Behalf Of LIA05 Hoc

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Sent: Monday, March 28, 2011 1:58 PM To: Coons, Albert Cc: Lisa Hamilton; Rebecca Fontenot Subject: RPM Supplement 4 Impact Paper NREP Presentation

Mr. Coons,

Please find the attached.

Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

******FOR OFFICIAL USE ONLY****** PO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

Subject: Location:	White House / Nuclear Technical Advisory Group telcon Dial-in Number: ((b)(6))) Passcode: ((b)(6)))
Start: L	Mon 3/28/2011 3:30 PM Mon 3/28/2011 4:00 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer: Required Attendees:	PMT03 Hoc Hoc, PMT12; PMT07=Hoc
Call scheduled with Nuclear Tec	hnical Advisory Group/ White House on Monday, March 28, 2011 at 3:30 EDT. (NEW)
Dial in Phone Number: (b)(6) Passcode: (b)(6) (NEW)	
POC: J. Bentz for this meeting.	

- X.....

From: Sent: To: Subject: LIA05 Hoc Monday, March 28, 2011 4:08 PM Coons, Albert RE: Meeting Agenda on Small Modular Reactors

Mr. Coons,

It is on the NRC Calendar for tomorrow. Also, on their Webpage (public meetings) you can get the agenda as well as a copy of the slides.

Bonnie Sheffield Dayshift 0700-1500 Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

******FOR OFFICIAL USE ONLY****** DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

From: Coons, Albert [mailto:albert.coons@dhs.gov] Sent: Monday, March 28, 2011 4:07 PM To: LIA05 Hoc Subject: RE: Meeting Agenda on Small Modular Reactors

Ken

What are the details of this meeting? How did you become aware of the meeting? Al

Albert Coons Lead Program Specialist HQ/NPD-THD-REPP FEMA 202-212-2318 (cell) 703-305-0837 (fax) E-mail: albert.coons@dhs.gov

From: prvs=0610c37e9=LIA05.Hoc@nrc.gov [mailto:prvs=0610c37e9=LIA05.Hoc@nrc.gov] On Behalf Of LIA05 Hoc
Sent: Monday, March 28, 2011 2:37 PM
To: Coons, Albert
Cc: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Lisa Hamilton; Michelle Ralston; Rebecca Fontenot; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: Meeting Agenda on Small Modular Reactors

1

Please find the attached.

Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center

(301) 816-5187

From: Sent: To: Subject: Schwartzman, Jennifer Monday, March 28, 2011 8:03 PM LIA03 Hoc RE: help

www-emergency.iaea.org

From: LIA03 Hoc Sent: Monday, March 28, 2011 7:45 PM To: Schwartzman, Jennifer Subject: RE: help

No. are you? Where do I find the ENAC thing on the website. I am challenged this evening.

From: Schwartzman, Jennifer Sent: Monday, March 28, 2011 7:44 PM To: LIA03 Hoc Subject: RE: help

Are you guys having fun this evening?

From: LIA03 Hoc Sent: Monday, March 28, 2011 7:43 PM To: Schwartzman, Jennifer Subject: RE: help

Thank you very much.

From: Schwartzman, Jennifer Sent: Monday, March 28, 2011 7:41 PM To: LIA03 Hoc Subject: RE: help

username: (b)(6) password:

You should write it down and post it somewhere - I tell people the info at least once a day and I may someday get hit by a bus.

From: LIA03 Hoc Sent: Monday, March 28, 2011 7:38 PM To: Schwartzman, Jennifer Subject: help

How do we get on ENAC? It is not up on either computer.

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From: Sent: To: Subject: Schwartzman, Jennifer Monday, March 28, 2011 7:44 PM LIA03 Hoc RE: help

Are you guys having fun this evening?

From: LIA03 Hoc Sent: Monday, March 28, 2011 7:43 PM To: Schwartzman, Jennifer Subject: RE: help

Thank you very much.

From: Schwartzman, Jennifer Sent: Monday, March 28, 2011 7:41 PM To: LIA03 Hoc Subject: RE: help

username: (b)(6) password:

You should write it down and post it somewhere - I tell people the info at least once a day and I may someday get hit by a bus.

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From: LIA03 Hoc Sent: Monday, March 28, 2011 7:38 PM To: Schwartzman, Jennifer Subject: help

How do we get on ENAC? It is not up on either computer.

From: Sent: To: Cc: Subject: Francis, Sharoon Tuesday, March 29, 2011 6:54 AM Emche, Danielle LIA02 Hoc; LIA03 Hoc RE: VM

Good Morning Ms. Emche,

Sorry that this did not work as AT&T's International Care team advised me it would. Please let me know when would be a good time to conference you into a call with them so that they may further assist us in troubleshooting your issue. It would be better to conference you in from a landline so that the BlackBerry would be free for you to make changes to, so please provide a good number to reach you at as well.

Thank you,

Sharoon Francis Telecommunications Service Center Phone: 301-415-0537 Location: O-2A1 TSC.Resource@nrc.gov

From: Emche, Danielle Sent: Monday, March 28, 2011 10:11 PM To: Francis, Sharoon Cc: LIA02 Hoc; LIA03 Hoc Subject: Re: VM

I was able to change the access number to but now when I dial "call voice mail" I get a busy signal... which makes sense. Danielle Sent from an NRC BlackBerry.

From: Francis, Sharoon
To: Emche, Danielle
Cc: Ashby, Nadine; Curtis, David; Brusoe, Eric; Turner, Joseph; LIA03 Hoc; Beauford White <bwhite@ultra-tech.com>; TSC Resource
Sent: Mon Mar 28 07:50:31 2011
Subject: RE: VM

Good Morning Ms. Emche,

If your BlackBerry's number is to be the original e-mail of your issue stated, then yes, please try to set to be the correct Access Number in your Voice Mail settings. Please let me know if this works.

Thank you,

Sharoon Francis

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Contraction and the second

Telecommunications Service Center Phone: 301-415-0537 Location: O-2A1 TSC.Resource@nrc.gov

From: Emche, Danielle
Sent: Sunday, March 27, 2011 11:11 AM
To: 'bwhite@ultra-tech.com'; Francis, Sharoon
Cc: Ashby, Nadine; Curtis, David; Brusoe, Eric; Turner, Joseph; LIA03 Hoc; TSC Resource
Subject: Re: VM

Let me point out, my number in Tokyo is not as below but is could this is part of the problem? Danielle Sent from an NRC BlackBerry.

From: Beauford White <bwhite@ultra-tech.com> To: Francis, Sharoon; Emche, Danielle Cc: Ashby, Nadine; Curtis, David; Brusoe, Eric; Turner, Joseph; LIA03 Hoc; TSC Resource Sent: Sun Mar 27 11:07:35 2011 Subject: Re: VM

Is this issue confined to one person?

From: Francis, Sharoon <Sharoon.Francis@nrc.gov>
To: Emche, Danielle <Danielle.Emche@nrc.gov>
Cc: Ashby, Nadine <Nadine.Ashby@nrc.gov>; Curtis, David <David.Curtis@nrc.gov>; Brusoe, Eric
<Eric.Brusoe@nrc.gov>; Turner, Joseph <Joseph.Turner@nrc.gov>; LIA03 Hoc <LIA03.Hoc@nrc.gov>; Beauford White;
TSC Resource <TSC.Resource@nrc.gov>
Sent: Sun Mar 27 06:48:49 2011
Subject: Re: VM

i Ko

Good Morning Ms. Emche,

From your BlackBerry, please press the green "Phone/Send" button to enter your BlackBerry's Call Log.

Once you are in the Call Log, please press the Menu key, which is located to the immediate left of your BlackBerry's center trackpad.

In the menu that pops up after you press the Menu key, please scroll down until you are highlighting a menu item called "Options" and select it. Then select "Voice Mail" and advise whether the "Access Number" setting is set to your current BlackBerry's phone number, which is **set (b)(6) a b a c i**

If your previous BlackBerry's number is showing instead, please change it to and save all changes by pressing the Menu key and selecting Save.

Once you have saved all changes, please press the Escape key (located to the immediate right of the trackpad) as many times as necessary to get back to the Call Log, from where pressing and holding the number 1 button should take you to your new voice mail box.

Please let me know if this resolves the issue or if further troubleshooting/instructions are required.

Thank you,

Sharoon Francis

Sent from NRC BlackBerry (b)(6)

From: Brusoe, Eric To: LIA03 Hoc; Francis, Sharoon; Turner, Joseph Cc: Emche, Danielle; Ashby, Nadine; Curtis, David Sent: Sun Mar 27 07:16:40 2011 Subject: Re: VM

Adding Joe and team

Eric Brusoe Sent from my NRC Blackberry

From: LIA03 Hoc To: Francis, Sharoon Cc: Brusoe, Eric; Emche, Danielle Sent: Sun Mar 27 06:31:17 2011 Subject: FW: VM

Hello, Ms. Francis,

Danielle landed in Japan, tried the instructions, and is still having trouble. She will be in contact about this issue. In the meantime, if you have further advice for her, please pass it along. Thank you! Best regards,

International Liaison

From: Emche, Danielle Sent: Sunday, March 27, 2011 4:29 AM To: LIA02 Hoc; LIA03 Hoc Subject: Re: VM

Hi Elizabeth,

I read the instructions, and held down the 1 button. It called my voice mail for my normal bb number and went right away to "you have reached the vm for Danielle Emche, please record at the tone." (This is the same thing that happens when I select "call vm" from this phone.) I still don't know how to get my normal messages or set up vm for this phone. I will try CSC on Monday. I guess I should use the calling card for that. Danielle

3

Sent from an NRC BlackBerry.

From: LIA02 Hoc To: Emche, Danielle Sent: Sat Mar 26 13:55:37 2011 Subject: FW:

See below for accessing your voice mail and setup.

steve

From: Brusoe, Eric Sent: Saturday, March 26, 2011 1:54 PM To: ET02 Hoc; LIA02 Hoc; LIA03 Hoc **Cc:** Turner, Joseph; Heard, Robert; Curtis, David **Subject:** Fw:

Please see below for the resolution of the VM issue.

Standing by if any other issues other come up.

Eric Brusoe Sent from my NRC Blackberry

From: Francis, Sharoon To: Brusoe, Eric Cc: Ashby, Nadine; Padilla, William; 'bwhite@ultra-tech.com' <bwhite@ultra-tech.com>; TSC Resource Sent: Sat Mar 26 13:39:39 2011 Subject: Re:

Good Afternoon Mr. Brusoe,

AT&T's International Care team has advised that while Danielle Emche is roaming internationally in Japan, she must press and hold the number 1 button in order to access her voice mail, at which point she will be able to set up her voice mail box. Selecting the "Call Voice Mail" option as Ms. Emche is currently doing will not work except domestically in the United States.

Please let me know if this resolves Ms. Emche's issue or if further troubleshooting is required. Also, please be advised that Ms. Emche's BlackBerry number is **and (b)(b)** and not **b**(b)(b) as stated in the e-mail below.

- 200 EC -

1000

Thank you,

Sharoon Francis Sent from NRC BlackBerry

From: Brusoe, Eric To: Francis, Sharoon Cc: Ashby, Nadine Sent: Sat Mar 26 12:55:45 2011 Subject: Fw:

Sharoon you got this?

Eric Brusoe Sent from my NRC Blackberry

From: ET02 Hoc To: TSC Resource Cc: Brusoe, Eric; Heard, Robert Sent: Sat Mar 26 12:33:03 2011 Subject:

Please see e-mail from Danielle Emche below. She is currently in Japan and was issued Blackberry #

From: Emche, Danielle Sent: Saturday, March 26, 2011 10:55 AM To: LIA03 Hoc; LIA02 Hoc Subject: Re: TRANSITION REPORT FOR MARCH 26, 2011 - 0700

One more thing, this may have to wait until Monday when I can call CSC, my new bb tells me I have voice mail but when I select "call voice mail" it rolls me over to leave a message for myself. Maybe the IT folks in the Ops center know something. (Also, when people call my new number, the phone reports that my voice mail isn't set up). It might be that there's nothing that can be done, since it's a temporary phone number, but could you pass this along to the IT folks in the Ops center in case they know something? Danielle

Sent from an NRC BlackBerry.

From:	RST01B Hoc
Sent:	Tuesday, March 29, 2011 7:17 PM
То:	johne.kelly@nuclear.energy.gov; sal.golub@nuclear.energy.gov;
	alex.larzelere@nuclear.energy.gov
Cc:	Versluis, Rob
Subject:	URGENT RE: Quick science group call today - 7:00pm EDT
Importance:	High

I was on a call with the NRC in-Japan team just now and the issue of vetting DOE recommendations with NRC and Industry is still a hot issue here. This concerns the statement in the email below that "Hence, the recommendation not to flood the drywell will be advanced by U.S. to the Japanese." I have an action to find out - where and to whom that Science Council recommendation (see below) has gone and

- whether DOE intends to follow the process agreed by the NRC Chairman and the DOE Secretary to vet through the Industry Consortium, or if DOE is setting up a second channel to Japan.

We (DOE) need to get this issue back into the box.

NRC RST is willing to discuss flooding issues and believes they have taken some of Holdren's consideration into account but they don't agree with "not flooding". This will come up again at the 11 am telecom tomorrow.

Rob Versluis, DOE NE-71, 301-903-1890 (o) (b)(6) (m)

-----Original Message-----From: Versluis, Rob Sent: Tuesday, March 29, 2011 1:22 PM To: Golub, Sal; Larzelere, Alex; Versluis, Rob; McCaughey, Bill; McFarlane, Harold Subject: FW: Quick science group call today - 7:00pm EDT

I just got this (I was not logged into NRC system until an hour ago)

-----Original Message-----From: RST01 Hoc [mailto:RST01.Hoc@nrc.gov] Sent: Tuesday, March 29, 2011 9:56 AM To: Versluis, Rob Subject: FW: Quick science group call today - 7:00pm EDT

-----Original Message-----From: Sheron, Brian Sent: Tuesday, March 29, 2011 7:21 AM To: Kelly, John E (NE) Cc: Weber, Michael; Virgilio, Martin; RST01 Hoc; ET01 Hoc Subject: FW: Quick science group call today - 7:00pm EDT

John, see below.

It was our understanding that all recommendations to the Japanese government were going to be first vetted internally within the U.S.

Last weekend our RST vetted the severe accident management recommendations with NRC, DOE, INPO, EPRI, NR, Bettis, KAPL, GEH and got alignment before the recommendations were sent to the site team.

It was also my understanding that Secretary Chu agreed to this process with Chairman Jaczko. Is DOE going to coordinate the vetting process, or do you want to send it over to the NRC's RST and let them vet it?

-----Original Message-----From: Lee, Richard Sent: Monday, March 28, 2011 7:44 PM To: Sheron, Brian Subject: RE: Quick science group call today - 7:00pm EDT

Brian:

Done already. Dana and I were on the phone. Dr. Holdrens is checking on the consensus view reached yesterday on the recommendation of not flooding the drywell. Without having any water level measurement in the drywell, concerns are: (i) condensing the steam which may cause a hydrogen burn; (ii) too much water in the drywell resulting in blocking the vent path. The blocking of the vent path will be very serious, because at this time, it is now the only path for relieving pressure in the RCS.

Apparently, Dr. Holdrens spoke to our Chairman and was told by our Chairman that he understood the NRC still favors flooding the drywell. Dana and I both said the concern of blocking the vent path is a major concern especially we do not know or able to measure the water level in the drywell. I also mention that in case of molter core material breached the RPV, ANL (under DOE) is calculating the MCCI; and NRC had also provided a few days ago our estimate of FCI loads do not pose a treat to the containment. He was happy that we look into FCI already and gave him assurance the recommendation is the correct one to put forth.

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The rest of the people call in (Bob Budniz?, Dick Garwin,) agreed. Hence, the recommendation not to flood the drywell will be advanced by U.S. to the Japanese.

Richard

From: Sheron, Brian Sent: Monday, March 28, 2011 7:07 PM To: Lee, Richard Subject: Re: Quick science group call today - 7:00pm EDT

Great, thx.

From: Lee, Richard To: Sheron, Brian Sent: Mon Mar 28 17:11:42 2011 Subject: RE: Quick science group call today - 7:00pm EDT

Brian:

I will call in to see what it is all about,

Richard

From: Sheron, Brian Sent: Monday, March 28, 2011 4:35 PM To: Lee, Richard Subject: Fw: Quick science group call today - 7:00pm EDT

From: Adams, Ian <Ian.Adams@Hq.Doe.Gov>

To: DL-NITsolutions <DL-NITsolutions@nnsa.doe.gov>; Owens, Missy <Missy.Owens@hq.doe.gov> Cc: Smith, Haley <Haley.Smith@Hq.Doe.Gov>; Chambers, Megan (S4) <Megan.Chambers@science.doe.gov>; Narendra, Blake <Blake.Narendra@NNSA.Doe.Gov>; Fitzgerald, Paige <Paige.Fitzgerald@Hq.Doe.Gov> Sent: Mon Mar 28 16:31:59 2011

Subject: Quick science group call today - 7:00pm EDT Good afternoon,

Dr. Holdren would like to pull everyone who is available together today at 7:00pm EDT for a few minutes. This is to discuss a technical question before a recommendation is made.

Apologies for the short notice - don't worry if you aren't able to make it, but for those of you who are able, we will have a brief call today from 7:00-7:15pm EDT.

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Tomorrow's call will still take place as scheduled, at 4:45pm EDT. Wednesday's call will take place at 5:00pm EDT

Thanks

lan

Nuclear science group conference call schedule: Monday 3/28: 7:00pm-7:15pm EDT Tuesday 3/29: 4:45pm-5:45pm EDT Wednesday 3/30: 5:00pm-6:00pm EDT

Conference call information: Please dial into (202) 586-2535 No PIN is needed.

lan Adams Office of the Secretary Department of Energy (202) 586-9585 Kel ian.adams@hq.doe.gov

From: Sent: To: Cc: Subject: LIA03 Hoc Tuesday, March 29, 2011 7:48 AM LIA03 Hoc LIA02 Hoc; Mamish, Nader RE: USNRC Earthquake-Tsunami Update.032811.0430EDT.docx

Danielle,

I have confirmed with Nader, and it was just reported in the 07:30 ET call with the TAs and others, that the priorities are correct in the report you sent along. The priorities were changed by NRC to conform with our evolving understanding of the situation on the ground.

Let me know if you have additional questions.

Cheers,

Karen

-----Original Message-----From: LIA03 Hoc Sent: Tuesday, March 29, 2011 12:01 AM To: 'Danielle Emche' Subject: RE: USNRC Earthquake-Tsunami Update.032811.0430EDT.docx

Danielle:

I have scoured both Liaison pc's here and I have not found where any of these reports reside to do what you are asking. If you have any insights, share them with me. :(

Steve Baker

-----Original Message-----From: Danielle Emche (mailto: (b)(6) Sent: Monday, March 28, 2011 11:38 PM To: LIA02 Hoc; LIA03 Hoc; RST01 Hoc Subject: Fwd: USNRC Earthquake-Tsunami Update.032811.0430EDT.docx

Can you help? In the attached document, which goes out to the interagency we noticed that the priorities are wrong and are matching each unit, rather than identifying the actual priority. Looking back at reports, this was introduced starting March 25th. Can you please resend last night's report with the correction? I don't know whether it's worth communicating this error and correction to the interagency, but for our purposes it would be helpful. I caught this based on a review of another agency's report and when I questioned their priorities, they responded that they got this from our report.

----- Forwarded message -----From: Emche, Danielle <Danielle.Emche@nrc.gov> Date: Mon, Mar 28, 2011 at 11:22 PM 1000 Call 1000 Call

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From:	Danielle Emche <
Sent:	Tuesday, March 29, 2011 1:14 AM
То:	RST01 Hoc
Subject:	Re: Fw: USNRC Earthquake-Tsunami Update.032811.0430EDT.docx
Great, thank you!	
	t 12:38 AM, RST01 Hoc < <u>RST01.Hoc@nrc.gov</u> > wrote:
> Daniel,	
>	
> Don't know who char	ged them, we will update the 0600 report. Thanks, Mike.
> RST Coordinator.	
>	
>Original Message	
	e [mailto:
> Sent: Monday, March	
> To: LIA02 Hoc; LIA03	
	NBC Forthquake Teuromi Undate 022011 0420EDT docy
·	NRC Earthquake-Tsunami Update.032811.0430EDT.docx
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> If you have any comments or edits for the next update, scheduled for 1800 EDT today, please let me know.

- >
- >
- >
- > Thank you,
- >
- >
- >

> - Caroline

- >
- >
- >.
- > Caroline Nguyen
- >
- > US Nuclear Regulatory Commission
- >
- > LIA07.HOC@nrc.gov
- >
- > Caroline.Nguyen@nrc.gov
- >

From:Lee, RichardSent:Tuesday, March 29, 2011 7:59 AMTo:Sheron, Brian; Kelly, John E (NE)Cc:Weber, Michael; Virgilio, Martin; RST01 Hoc; ET01 HocSubject:RE: Quick science group call today - 7:00pm EDT

My apology for spelling Dr. Holdren name incorrectly. Richard

-----Original Message-----From: Sheron, Brian Sent: Tuesday, March 29, 2011 7:21 AM To: Kelly, John E (NE) Cc: Weber, Michael; Virgilio, Martin; RST01 Hoc; ET01 Hoc Subject: FW: Quick science group call today - 7:00pm EDT

John, see below.

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Richard

From: Sheron, Brian Sent: Monday, March 28, 2011 4:35 PM To: Lee, Richard Subject: Fw: Quick science group call today - 7:00pm EDT

From: Adams, Ian <Ian.Adams@Hq.Doe.Gov>

To: DL-NITsolutions <DL-NITsolutions@nnsa.doe.gov>; Owens, Missy <Missy.Owens@hq.doe.gov> Cc: Smith, Haley <Haley.Smith@Hq.Doe.Gov>; Chambers, Megan (S4) <Megan.Chambers@science.doe.gov>; Narendra, Blake <Blake.Narendra@NNSA.Doe.Gov>; Fitzgerald, Paige <Paige.Fitzgerald@Hq.Doe.Gov> Sent: Mon Mar 28 16:31:59 2011

Subject: Quick science group call today - 7:00pm EDT Good afternoon,

Dr. Holdren would like to pull everyone who is available together today at 7:00pm EDT for a few minutes. This is to discuss a technical question before a recommendation is made.

Apologies for the short notice - don't worry if you aren't able to make it, but for those of you who are able, we will have a brief call today from 7:00-7:15pm EDT.

2

Tomorrow's call will still take place as scheduled, at 4:45pm EDT. Wednesday's call will take place at 5:00pm EDT

Thanks Ian

Nuclear science group conference call schedule: Monday 3/28: 7:00pm-7:15pm EDT Tuesday 3/29: 4:45pm-5:45pm EDT Wednesday 3/30: 5:00pm-6:00pm EDT

3

Conference call information: Please dial into (202) 586-2535

lan Adams Office of the Secretary Department of Energy (202) 586-9585 ian.adams@hq.doe.gov From:Wittick, BrianSent:Tuesday, March 29, 2011 8:37 AMTo:LIA02 Hoc; LIA03 HocSubject:FW: Request Dr. Ivan Catton of UCLA be added to the list of registered users for IAEA's
data base at http://www.iaea.org/programmes/a2/

You can delete the Apostolakis item from the transition report. The action item regarding PRIS access is now complete.

Brian Wittick Executive Technical Assistant for Reactors Office of the Executive Director for Operations U.S. Nuclear Regulatory Commission 301-415-2496 (w); (b)(6)(c)

From: Williams, Shawn
Sent: Tuesday, March 29, 2011 8:13 AM
To: Ivan Catton
Cc: Wittick, Brian; Snodderly, Michael
Subject: FW: Request Dr. Ivan Catton of UCLA be added to the list of registered users for IAEA's data base at http://www.iaea.org/programmes/a2/

Dr. Catton,

It appears by the e-mail below that have been given access to PRIS. I am assuming you were sent a separate e-mail with your user name and password.

Best of luck in your research.

Shawn Williams Executive Technical Assistant Office of the Executive Director for Operations 301-415-1009

From: R.George@iaea.org <R.George@iaea.org> To: Shaffer, Mark R Sent: Tue Mar 29 12:30:02 2011 Subject: RE: Request Dr. Ivan Catton of UCLA be added to the list of registered users for IAEA's data base at http://www.iaea.org/programmes/a2/

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Dear Mark, Access is provide for Dr. Catton. Best regards, Roy

From: Shaffer, Mark R [mailto:ShafferMr@state.gov] Sent: Tuesday,29 March 2011 11:13 To: PRIS - Administrator ŝ

Cc: catton@ucla.edu

Subject: FW: Request Dr. Ivan Catton of UCLA be added to the list of registered users for IAEA's data base at http://www.iaea.org/programmes/a2/

PRIS System Administrator:

Please find attached, the license agreement and registration form for an expert in the Unites States that wishes to have access to the PRIS system. The U.S. Mission to International Organizations in Vienna has verified that Dr. Catton is a United States citizen with a legitimate need for access to the system. Dr. Catton's contact information is noted below, in addition to the information provided in the attached document.

The Mission respectfully requests that IAEA provide Dr. Catton with access to the system a soon as possible.

Thank you for your assistance.

-Mark

Mark R. Shaffer • Nuclear Safety Attaché • United States Mission to International Organizations in Vienna Wagramerstraße 17-19, 1220 Vienna | +43-1-31339-4745 | Shaffermr@state.gov

Ivan Catton Professor of Engineering Department of Mechanical and Aerospace Engineering University of California, Los Angeles 48-121 Engineering IV Los Angeles, CA 90095-1597

Work: Tel: 310 825 5320 Fax: 310 206 4830 Home: Tel: (b)(6)

catton@ucla.edu

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March 29, 2011

<u>1000 hrs</u>

Daily Consortium Call on the Japanese Earthquake/Tsunami

Participants:

the second second

NRC ET Director NRC Region II NRC LT Director NRC Team (Japan) CDR Chuck Good, Joint Staff LTC Craig Gaddis, J4 GE Hitachi Sal Golub, DOE, Office of Nuclear Energy NRC Liaison USAID Naval Reactors INPO

Acronyms:

GOJ: Government of Japan
MOD: Ministry of Defense
NISA: Nuclear and Industrial Safety Agency
MEXT: Ministry of Education, Culture, Sports, Science and Technology
NSC: Nuclear Safety Commission of Japan
METI: Ministry of Economy, Trade and Industry
MOFA: Ministry of Foreign Affairs
MHLW: Ministry of Health, Labor and Welfare

<u>Minutes:</u>

NRC opened the meeting and briefly discussed the issue of a need for an overall lead. Guidance may be forthcoming from the Chairman. Currently the NRC is the point of contact with NISA and the Government of Japan.

INPO stated they have a representative in Japan to validate requests for industry materiel and assistance. All requests that are forwarded to INPO will be validated through their person in Japan prior to action being taken. DOE requested a single NRC Japan Team point of contact.

INPO briefly discussed the following materiel requests being worked by INPO:

- 1) Radiation Monitors; Dosimeters; Shielding (question as to funding source for materiel)
- 2) Gamma Camera Info has been sent to INPO POC in Japan
- 3) Hydraulic Hoses Request has been canceled by GoJ
- 4) Remediation Options researching portable reactor water processing equipment
- 5) Tools / Equipment for Moving Fuel researching industry equipment
- 6) Shielding for individual rooms and for the facility in general
- 7) Need for personnel experienced in NPP clean-up (TMI experience)
- 8) Following up on request for commercial heat exchanger for the SFP

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- 9) Westinghouse working on the UAV request and coordinating with Texas A & M expert.
- 10) SAMG Technical Document guidance has been sent to INPO contact in Japan and is being updated (Rev 1) and will be discussed at 1100 hrs call today; will include injection rate and best assessment to plant conditions

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- 11) GEH is following up on the Nitrogen purge issue
- 12) GoJ request for shielding has been closed out per INPO contact
- 13) INPO is coordinating an industry effort to provide Japan with a quantity of used survey meters that may require military airlift due to inclusion of calibration sources.

Discussed request from GoJ to Pacific Northwest Labs for technical assistance with water decontamination and storage issues.

J4 discussed status of water barges – they have been outfitted and tested and are 10 hrs from the NPP site and should arrive Weds. *Need ETA*.

J4 discussed requests for military air transport – first choice should be commercial carrier for timely delivery; PACOM is involved in the review and approval of all requests for military airlift to Japan. Should limit requests to materiel that is difficult for commercial carriers to deliver. Requests should include weight and dimensions of the cargo.

J4 discussed that PACOM is deploying a military Nuclear-Chemical-Biological Incident Response Team to Japan.

Discussed DOE technical POC for INPO. Should be handled on a subject-by-subject basis with coordination through Sal Golub, DOE.

NRC discussed the need for a consolidated Action Item list that would include both materiel and technical requests. This list should be vetted through the NRC in Japan. An Excel spreadsheet (**UPDATE: File name: Japanese Government Action Items and Material Request List) has been developed by the LT Federal Liaison, but needs to be updated as to status of many action items.

Discussion of merits of moving this conference call to 1900 hrs daily to facilitate participation by team members in Japan. ****Update:** Consortium Call has been moved to 2000 hrs daily.

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Agenda for Daily Industry Consortium Teleconference Meeting March 30, 2011 20:00 EDT*** (please note new time)

(Passcode: (b)(6))

Purpose of the Meeting:	Alignment of US Government and US Nuclear Industry support for
	Japan in responding to the Fukushima Nuclear Event.

Expected Outcome:Reinforce roles and responsibilities; identify problems and open
issues surrounding our support

Meeting Chair: US NRC

- Roll Call
- Continued discussion of organizational Issues / Roles and Responsibilities/Protocols
 - o US Agency Roles and Leads
 - o US Industry Support Structure and Roles
 - o Protocol for communicating and addressing Action Items
- INPO report on status of material requests
- INPO team report status of on-going work on requests for technical support
 - o DOE Technical point of contact for INPO
- Review Current Action Items Matrix (See "Japanese Government Action Items and Material Request List")
- New Actions
 - o DOD query about existing technologies for decontaminating water



From: Sent: To: Subject: LIA05 Hoc Tuesday, March 29, 2011 10:44 AM Coons, Albert RE:

Thank you . Can you call me?

Bonnie Sheffield Dayshift 0700-1500 Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: Coons, Albert [mailto:albert.coons@dhs.gov] Sent: Tuesday, March 29, 2011 10:23 AM To: LIA05 Hoc Subject: RE:

Bonnie

I googled the subject rainwater and nuclear. Several articles showed up citing that fallout from Japan has been seen in rainwater across the U.S. I will make an inquiry this afternoon on the call with the Hill.

Albert Coons Lead Program Specialist HQ/NPD-THD-REPP FEMA 202-212-2318 (b)(6) 703-305-0837 (fax) E-mail: albert.coons@dhs.gov

From: prvs=0628bf20d=LIA05.Hoc@nrc.gov [mailto:prvs=0628bf20d=LIA05.Hoc@nrc.gov] On Behalf Of LIA05 Hoc Sent: Tuesday, March 29, 2011 10:16 AM To: Coons, Albert; Feighert, Dan Subject: RE:

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Can we have someone find out so we can report it to the OPS center?

Bonnie Sheffield Dayshift 0700-1500 Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187 1.1 10 S 1.1.

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From: Coons, Albert [mailto:albert.coons@dhs.gov] Sent: Tuesday, March 29, 2011 10:14 AM To: LIA05 Hoc Subject: RE:

The news has been stating that minimal amounts of lodine 131 has been have been detected in the precipitation in several cities. I did not read the news articles. This is rumor

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Albert Coons Lead Program Specialist HQ/NPD-THD-REPP FEMA 202-212-2318 (b)(6) (cell) 703-305-0837 (fax) E-mail: albert.coons@dhs.gov

From: prvs=0628bf20d=LIA05.Hoc@nrc.gov [mailto:prvs=0628bf20d=LIA05.Hoc@nrc.gov] On Behalf Of LIA05 Hoc Sent: Tuesday, March 29, 2011 10:00 AM To: Feighert, Dan; Coons, Albert Subject:

2

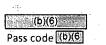
Have you heard anything about the radiation issues in PA or other states?

Bonnie Sheffield Dayshift 0700-1500 Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

*******FOR OFFICIAL LISE ONLY******** DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

Subject:	Canceled: Industry Tech Level Conf Call
Start: End:	Tue 3/29/2011 11:00 AM Tue 3/29/2011 12:00 PM
Show Time As:	Free
Recurrence:	Weekly
Meeting Status:	Not yet responded
-	
Organizer:	Czekalla, Melíssa B. (INPO)
Importance:	Hìgh

TUESDAY AND THURSDAY 1100 EDT Conf Call



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Industry Technical Conference Call Outline Standing Call 1100 EDT Use NRC bridge line (6)(6) pass code (6)(6)

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Stakeholders

Focus on 'value added' efforts, efficient discussion of topic, and be prepared. List the organization and name of stakeholder involved in the issue; include key phone numbers and contact information.

Organization * indicates a core member of the team	Name / Contact Information (phone, beeper) indicate if number is a central response center of the organization	Role (if applicable)
*INPO ERC		
*GEH		
*EPRI		
*NRC RST		
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<u>Pre-call actions:</u> Publish agenda prior to the upcoming phone call (By 0900 each morning). A premade contact list is maintained by INPOERCTech. If no call required send e-mail to affected parties by 0900.

Minimum items include:

- Identify an individual / organization to lead the discussion topic. Duty NRC RST01 Lead
- What work group and who is the source of the topic / request for action? Who is the customer?
 NRC RST01 Staff requesting input on recommendations for TEPCO.
- What is the purpose of the topic / request? **Concurrence or validation of assessment**.
- What will be done with the input to be developed? Shared with TEPCO.
- What is the immediacy (priority) of the request? (Be specific, date, time, and method of delivery) After the 11 AM Call.
- Who has or where are the inputs required? Previous industry questions in book.
- Which organizations are working on or are assigned to determine the solution?

Data / Facts Gathered

Include a summary of facts / information (high level) gathered. Include source of information and date / time as required to add clarity.

• Refer to NRC provided assessment package

Action Items

List any actions items required to arrive at a conclusion

Summary of Findings / Conclusions:

Include the best summary of the issue. Include any assumptions used for a decision. Place most current information at the top. As information changes, maintain a running summary (include date and time of entry).

Management Communications (If required)

Document any pertinent information regarding discussions with management, calls, etc.

From: Sent: To: Subject: LIA02 Hoc Tuesday, March 29, 2011 1:17 PM LIA03 Hoc FW: NRC travellers

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov] Sent: Tuesday, March 29, 2011 1:14 PM To: LIA07 Hoc; LIA01 Hoc; LIA11 Hoc; LIA02 Hoc Subject: NRC travellers

¹ I have heard rumors of a 3rd round of NRC support heading to Japan. Anyone have any info on that. Thanks.

Jason Kozal **USNRC** Liaison to USAID NSIR 202-712-4383 (USAID 24hr land line) BB cell (b)(6)

1. A. W. V.

From: Sent: To: Subject: Clark.Ray@epamail.epa.gov Tuesday, March 29, 2011 2:29 PM LIA04 Hoc Re: FW: US DHHS Japan Event Follow-Up Call

Cardelia,

Thanks for the information. I've checked here and found that we do have a person who has been on these calls.

Ray EPA HQ EOC Environmental Unit

FW: US DHHS Japan Event Follow-Up Call

LIA04 Hoc

to:

LIA06 Hoc, LIA08 Hoc

03/29/2011 01:51 PM

Cc:

Ray Clark, "Piccone, Josephine", "Jackson, Deborah", "Easson, Stuart", "Flannery, Cindy", LIA04 Hoc, "Lukes, Kim", "Maupin, Cardelia", "Noonan, Amanda", OST05 Hoc, "Rautzen, William", "Rivera, Alison", "Ryan, Michelle", "Turtil, Richard", "Virgilio, Rosetta"

Fyi.

From: Fenner, Jerold (HHS/ASPR/OPEO) [mailto:Jerold.Fenner@hhs.gov]

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Sent: Tuesday, March 29, 2011 1:50 PM

To: 'Ames, Darrell Mr CIV US USA USARPAC'; (b)(6) (b)(6) 'pavlinb@wpro.who.int'; 'Iddings; Mr Steven (SP)'; 'Gaynor, Mary Kathleen M.D. (Kate)'; 'Arthy G. Nena'; O'Mallan, Josie (CDC dphss.guam.gov); 'Peter Judicpa'; 'William Kando'; 'michael poblete'; 'siitia@doh.as'; 'Ben Sili'; 'Jacqueline Solaita'; 'Melinda Lawrence - Palau'; (b)(6) (b)(6) ; 'Joanes Sarofalpiy'; 'Lisa Barrow'; Bryce, Michael (HHS/ASPR/OPEO); 'Toby L. Clairmont'; Gallo, Bill (CDC/OSTLTS/DPHCD); 'Owolabi, Mojisola'; 'Arcibal, Laura K.'; Rayle, Vicky (CDC/OSTLTS/DPHCD); Walmsley, John (HHS/OASH); 'Cathy Wasem'; Michael, Gretchen (HHS/ASPR/COO); 'Joseph Kevin Villagomez'; Yano, Victor (CDC palau-health.net); Seiuli Elisapeta Ponsusuia, American Samoa DPCP (CDC gmail.com); Langidrik, Justina < Marshall Is> (CDC ntamar.net); McMichael, Janice R. (CDC/OPHPR/DSLR); 'masatomo.nadeau@dphss.guam.gov'; 'leo.casil@dphss.guam.gov'; 'arthur.sanagustin@dphss.guam.gov'; Talbert, Todd (CDC/OPHPR/DSLR); 'marilyn.shigetani@dhs.gov'; 'Voirin, Anthony J LTCOL MIL USAF'; 'kevin.clark@dhs.gov'; 'Michael Epp'; 'Park, Sarah Y., MD'; 'wmiller@USAID.GOV'; Sheehan, Kevin (HHS/ASPR/OPEO); Cooper, Barbara (CDC/OPHPR/DSNS); Roh, Mark S (FDA/ORA); 'Meer.Daniel@epamail.epa.gov'; Piggott, Bill (HHS/ASPR/OPEO); Natarajan, Nitin (HHS/ASPR/OPEO); Sanders, Melissa (HHS/ASPR/OPEO); Simons, Nadine M (HHS/OASH); Schultz, Herb (HHS/IGA/ORD); 'Todd.L.Smith@aphis.usda.gov'; Maier, Bill; 'sarah.hartson@oak.doe.gov'; Smart, John (HHS/ASPR/OPEO); Turtil, Richard; Piccone, Josephine; Jackson, Deborah; LIA04 Hoc; OST05 Hoc; Pippin, Roger L. (CDC/OPHPR) (CTR); (b)(6) Muldoon, Molly (FDA/OC); Jackson, LeeAnne (FDA/CFSAN); Russo, Mark (FDA/OC); Mahon, John (IHS/HQ); Hancock, Jessica (HHS/OGHA); Karol, Susan (IHS/HQ); Yee, James C (FDA/ORA); Kreis, Jane M (FDA/ORA); Russo, Mark (FDA/OC); Durkin, Robert (FDA/OC); Breadheft, Marc (FDA/OC); Gorski, Wayne A (FDA/OC); McDermott, Catherine (FDA/ORA); LeBlanc, Pamela (FDA/CFSAN); White, Arma (FDA/OC); DeLancey, Siobhan (FDA/OC); Kreis, Jane M (FDA/ORA); Verbeten, John E. (ORA) (FDA/ORA); Guzman, Noemi (CDC/OID/NCEZID); Veneziano, Domenic J. (FDA/ORA); McGarry, Sherri A (FDA/CFSAN); Chen, Tai-Ho (CDC/OID/NCEZID); (b)(6) (b)(6) Subject: US DHHS Japan Event Follow-Up Call

Importance: High

Friends,

The US Department of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response (ASPR) will facilitate a follow-up Pacific Islands call to coordinate information sharing and public health messaging among Federal, State and Pacific Jurisdictional partners related to the ongoing radiological event in Japan. On the call we start with a US Federal update, then updates from Hawaii, the Pacific Jurisdictions, and other Pacific Partners. Date: 30 Mar 2011 (Hawaii)

Time: 5 PM Pacific Time (5 PM Pacific Time is now 2 PM in HI; 1 PM in AS; 12 Noon in RMI; 11 AM in Pohnpei; 10 AM in CNMI, Guam, Chuuk and Yap; 9 AM in Palau).

Phone Number: 888-455-7847

Participant Passcode: (b)(6)

Jerry

Jerold Fenner, MPH, MEP

Regional Emergency Coordinator, Region IX US Dept. of Health & Human Services Office of the Assistant Secretary for Preparedness & Response

90 7th Street, Suite 3-350 San Francisco, CA 94103

Office: (415) 633-5501

Cell: (b)(6)

Jerold.Fenner@hhs.Gov

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From:	LIA02 Hoc
Sent:	Wednesday, March 30, 2011 1:20 AM
To:	LIA02 Hoc; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-
	Tous, Mugeh; 'ShafferMR@state.gov'; Bloom, Steven; Schwartzman, Jennifer; Tobin,
	Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smiroldo, Elizabeth; Young,
	Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche,
	Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; LIA07 Hoc; LIA06 Hoc; LIA08 Hoc;
	Owens, Janice; Fehst, Geraldine
Subject:	OUO- TRANSITION REPORT FOR MARCH 29, 1500-2300

OFFICIAL USE ONLY

TRANSITION REPORT FOR MARCH 29, 1500 - 2300

Nancy and Gerri to Steve Baker

UPDATES DURING SHIFT

- Taiwan Conference Call. Per Danielle's request on March 24 and PMT's agreement to include Taiwan in the daily France/Canada/UK calls, we have asked Danielle to provide POC information for Taiwan to provide Taiwan with dial-in numbers. The number is (b)(6) PIN is
 (b)(6) Action: Danielle will provide Taiwan poc information. Obtain phone number from back-up desk officer and contact Taiwan poc with Information. Reference e-mail sent from LIA02 HOC to Danielle Emche on March 29, 2011 at 6:22 a.m.
- Site Team Computer Assistance Requested. Site Team requested assistance in forwarding attachments via Webmail. OIS is aware of the request and is considering action on March 30. Meanwhile Technical Support in the Op Center directed the Site Team to call the NRC help desk, available 24/7, and to check the international air cards sent with each laptop to use with CITRIX. Action. Follow up with Technical Support on March 30 for final determination with Webmail.
- Cancellation of 9:30 pm EST nightly Interagency Call and the Task Force disbanded as of 0830 EDT March 29 Japan Desk will monitor events through routine channels. Interagency calls may be scheduled in the future, as needed.
- Consortium POC request: Request sent to Brooke, Danielle, Dan D. and Chuck C. at 4:26pm to
 provide a POC for the Consortium effort that will include vetting the "Japanese Government Action
 Items and Materials Request List to be Considered by the Consortium" and participate in future daily
 meetings starting March 31 at 8am Japan time. Also asked to advise if the time does NOT work for the
 POC. Once we have the name of the POC we will forward the list and other pertinent
 information. Update: Alan Blamey was named POC. He was provided the consolidated action item
 list for review and input and asked to consider while reviewing: 1) the type of protocol that we may
 need to develop with the industry and government to address these requests/action items, and 2) how
 to effectively track items and requests. Initial meeting time was not acceptable and has been changed
 to 9am Japan time. No further action necessary.
- **INPO:** All equipment requests are now going through INPO. They are consolidating all available information. Contact information for INPO is 770-644-8118 or email at <u>inpoercassistance@inpo.org</u>.

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the DG. The ET would like to know what will be communicated by the DG to member states and what might be asked of member states at this meeting. Email communicating this request was sent to Jen Schwartzman with cc to Mark Shaffer by 0700-1500 shift on 3/29. Communicate any information received to the LT director to be communicated to the ET director on duty. Action follow up pending response by Jen or Mark.

- Re-Entry guidance: Forwarded final re-entry guidance to NRC team in Japan and requested they
 forward to the Ambassador per our instructions from NSC. Action is closed.
- 3rd Team of NRC Travelers: Per Michele Evans a third team of NRC travelers is being considered however, no names or dates have been decided as yet. Action: Pending notification from Michele Evans. Remember to inform Jason Kozal (NRC embedded at USAID) once a decision has been reached.
- DHS Request: Received request from DHS/Stern (to Cyndi Jones) on 3/28 at 1912. Stern wants to know "does NRC have access to IAEA Measured Data on ENAC (not the Japanese data)". PMT was unable to provide a response as to whether or not they use the IAEA data and ENAC search showed only Japanese data. Responded back to Cyndi Jones at 2141 with that information and inquired if anyone else would have access to IAEA information within the PMT, At 2:11am, Mark Shaffer asked that Jennifer Schwartzman brief LIA02 (and Cyndi Jones) regarding the ongoing discussion between Warren Stern and Ambassador Davies on the topic noted in the recent transition log. Action follow-up pending Cyndi's response.
- IAEA Coordination. 3/28 at 1850, DEDO/Virgilio requested information on IAEA's role as the clearinghouse for assistance. He indicated that Margie said IAEA accepted the role. He would like to know the next steps for implementation and how it will be accomplished. Sent Margie and Mark Schaffer an email requesting information. Jen Schwartzman responded that DOD has the lead for US-Interagency logistics (Margie is aware of this) and that IAEA has not agreed to be a clearinghouse, however, they have agreed to play a significant role (Jen's email response with more information is in the Inbox from 3/28 at 1937. Follow up with Margie on 3/29 and advise the ET and DEDO/Virgilio of the next steps.
- Request from RST and PMT to keep them updated on who is currently in Japan on NRC team. 3/28, 1300: Updated list provided, minus PII to RST and PMT.
- Sent a request to returned travelers/travelers about to return to confirm their status, and to provide them with updated returned traveler checklist at 1300. Received responses from R.DeVercelly. Action: Update list as travelers respond. Update: Received response from D.Emche that Chuck Casto will return 4/12 and John Monniger 4/5 at 2107.
- Return Checklist. Michele Evans had one suggested amendment. The change was made and the document was sent to Michele Evans for concurrence and for distribution to the travelers coming back. Email document to travelers coming back to U.S as requested by Michele Evans (on LIA02 Desktop). Update 3/28 1300: After confirming changes with Michele Evans, sent checklist to travelers already returned and those returning this week.
- NRC Health Unit request: Dr. Cadoux (and Jeanne Dempsey) has contacted LIA02/LIA03 via Jen Schwartzman to discuss the situation with KI. The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there still exists a possibility that KI could be required at some point. Jen has responded to Jeanne that should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.

FUTURE ACTIONS/OPEN ITEMS

Coordination of IAEA and U.S. Efforts. It appears that DoD (Navy) is taking a logistical leadership
role in coordinating efforts for the U.S. government. This information will need to be coordinated with
both the IAEA international coordinating team as well as the INPO representative. NRC is interested in
knowing what other countries are providing in support to Japan. Email was sent to NRC IAEA Attache'
and NRC IAEA desk officer to pursue a path forward. Action: Attache' and desk officer will report if
they need anything further from the LT. ET may inquire about path forward.

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- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have an international call.
- Reminder to Keep Mark Shaffer in-the-loop at <u>shaffermr@state.gov</u>, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.
- Sanitary wipes now available. Action: Please wipe the keyboards, mice and phones before you leave.

OFFICIAL-USE-ONLY

From:	LIA02 Hoc
Sent:	Wednesday, March 30, 2011 7:06 AM
То:	LIA02 Hoc; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-
	Tous, Mugeh; 'ShafferMR@state.gov'; Bloom, Steven; Schwartzman, Jennifer; Tobin,
	Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smiroldo, Elizabeth; Young,
	Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche,
	Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; LIA07 Hoc; LIA06 Hoc; LIA08 Hoc;
	Owens, Janice; Fehst, Geraldine
Subject:	OUO- TRANSITION REPORT FOR MARCH 29-30, 2300-0700

OFFICIAL USE ONLY

TRANSITION REPORT FOR MARCH 28-29, 2300-0700

Steve Baker to Lauren Mayros

UPDATES DURING SHIFT

A brief overview of what the plan(s) are to remove the water : In response to your (Mark Shaffer's) inquiry, the Site team in Japan reports that the current plan is to pump the basement water to the available hotwells and other tanks onsite. Additionally, US forces in Japan are expected to supply bladders and other additional temporary storage. (new paragraph) Longer term plans are being considered in the US such as temporary rad waste processing skids, temporary holding tanks and tanker trucks. DOE is also investigating whether there is a technology to absorb contaminated materials from water. (No further action required)

Time Table for Response Team: A Response Team comprised of PMT, RST and attended by Int'l Liaison team will not be needed until Wednesday March 30 at 8:00 pm (EDT) for the Thursday 3-31 9:00 am meeting in Japan.

Taiwan Conference Call. Per Danielle's request on March 24 and PMT's agreement to include Taiwan in the daily France/Canada/UK calls, we have asked Danielle to provide POC information for Taiwan to provide Taiwan with dialin numbers. The number is (b)(6) PIN is (b)(6) Action: Danielle will provide Taiwan poc information. Obtain phone number from back-up desk officer and contact Taiwan poc with information. Reference e-mail sent rom LIA02 HOC to Danielle Emche on March 29, 2011 at 6:22 a.m. LPDA E Reference (Call and Call and C

Site Team Computer Assistance Requested. Site Team requested assistance in forwarding attachments via Webmail. OIS is aware of the request and is considering action on March 30. Meanwhile Technical Support in the Op Center directed the Site Team to call the NRC help desk, available 24/7, and to check the international air cards sent with each laptop to use with CITRIX. Action: Follow up with Technical Support on March 30 for final determination with Webmail.

 Cancellation of 9:30 pm EST nightly Interagency Call and the Task Force disbanded as of 0830 EDT March 29 Japan Desk will monitor events through routine channels. Interagency calls may be scheduled in the future, as needed. SAN ANTES

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- Consortium POC request: Request sent to Brooke, Danielle, Dan D. and Chuck C. at 4:26pm to
 provide a POC for the Consortium effort that will include vetting the "Japanese Government Action
 Items and Materials Request List to be Considered by the Consortium" and participate in future daily
 meetings starting March 31 at 8am Japan time. Also asked to advise if the time does NOT work for the
 POC. Once we have the name of the POC we will forward the list and other pertinent
 information. Update: Alan Blamey was named POC. He was provided the consolidated action item
 list for review and input and asked to consider while reviewing: 1) the type of protocol that we may
 need to develop with the industry and government to address these requests/action items, and 2) how
 to effectively track items and requests. Initial meeting time was not acceptable and has been changed
 to 9am Japan time. No further action necessary.
- INPO: All equipment requests are now going through INPO. They are consolidating all available information. Contact information for INPO is 770-644-8118 or email at <u>inpoercassistance@inpo.org</u>.
- IAEA All Member States Meeting: Received request from the ET director, Mike Webber to coordinate with Mark Shaffer in Vienna to determine the topic and/or agenda for this meeting, which was called by the DG. The ET would like to know what will be communicated by the DG to member states and what might be asked of member states at this meeting. Email communicating this request was sent to Jen Schwartzman with cc to Mark Shaffer by 0700-1500 shift on 3/29. Communicate any information received to the LT director to be communicated to the ET director on duty. Action follow up pending response by Jen or Mark.
- **Re-Entry guidance:** Forwarded final re-entry guidance to NRC team in Japan and requested they forward to the Ambassador per our instructions from NSC. Action is closed.
- 3rd Team of NRC Travelers: Per Michele Evans a third team of NRC travelers is being considered however, no names or dates have been decided as yet. Action: Pending notification from Michele Evans. Remember to inform Jason Kozal (NRC embedded at USAID) once a decision has been reached.
- DHS Request: Received request from DHS/Stern (to Cyndi Jones) on 3/28 at 1912. Stern wants to know "does NRC have access to IAEA Measured Data on ENAC (not the Japanese data)". PMT was unable to provide a response as to whether or not they use the IAEA data and ENAC search showed only Japanese data. Responded back to Cyndi Jones at 2141 with that information and inquired if anyone else would have access to IAEA information within the PMT. At 2:11am, Mark Shaffer asked that Jennifer Schwartzman brief LIA02 (and Cyndi Jones) regarding the ongoing discussion between Warren Stern and Ambassador Davies on the topic noted in the recent transition log. Action follow-up pending Cyndi's response.
- IAEA Coordination. 3/28 at 1850, DEDO/Virgilio requested information on IAEA's role as the clearinghouse for assistance. He indicated that Margie said IAEA accepted the role. He would like to know the next steps for implementation and how it will be accomplished. Sent Margie and Mark Schaffer an email requesting information. Jen Schwartzman responded that DOD has the lead for US-Interagency logistics (Margie is aware of this) and that IAEA has not agreed to be a clearinghouse, however, they have agreed to play a significant role (Jen's email response with more information is in the Inbox from 3/28 at 1937. Follow up with Margle on 3/29 and advise the ET and DEDO/Virgilio of the next steps.
- Request from RST and PMT to keep them updated on who is currently in Japan on NRC team. 3/28, 1300-Updated list provided, minus PII, to RST and PMT.
- Sent a request to returned travelers/travelers about to return to confirm their status, and to provide them with updated returned traveler checklist at 1300. Received responses from R.DeVercelly. Action: Update list as travelers respond. Update: Received response from D.Emche that Chuck Casto will return 4/12 and John Monniger 4/5 at 2107.
- **Return Checklist.** Michele Evans had one suggested amendment. The change was made and the document was sent to Michele Evans for concurrence and for distribution to the travelers coming

back. Email document to travelers coming back to U.S as requested by Michele Evans (on LIA02 Desktop). Update 3/28 1300: After confirming changes with Michele Evans, sent checklist to travelers already returned and those returning this week.

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• NRC Health Unit request: Dr. Cadoux (and Jeanne Dempsey) has contacted LIA02/LIA03 via Jen Schwartzman to discuss the situation with KI. The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there still exists a possibility that KI could be required at some point. Jen has responded to Jeanne that should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.

FUTURE ACTIONS/OPEN ITEMS

- Coordination of IAEA and U.S. Efforts. It appears that DoD (Navy) is taking a logistical leadership role in coordinating efforts for the U.S. government. This information will need to be coordinated with both the IAEA international coordinating team as well as the INPO representative. NRC is interested in knowing what other countries are providing in support to Japan. Email was sent to NRC IAEA Attache' and NRC IAEA desk officer to pursue a path forward. Action: Attache' and desk officer will report if they need anything further from the LT; ET may inquire about path forward.
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From:
Sent:
То:
Subject:
Attachments:

LIA10 Hoc

Tuesday, April 19, 2011 11:45 AM LIA08 Hoc; LIA02 Hoc; LIA03 Hoc FW: USNRC Earthquake-Tsunami Update 041911 DRAFT 1200EDT USNRC Earthquake-Tsunami Update 041911 DRAFT 1200EDT.pdf

From: LIA03 Hoc

Sent: Tuesday, April 19, 2011 11:45 AM To: LIA08 Hoc; LIA02 Hoc; LIA10 Hoc Subject: FW: USNRC Earthquake-Tsunami Update 041911 DRAFT 1200EDT

From: LIA08 Hoc

Sent: Tuesday, April 19, 2011 11:45 AM

To: A Green; A Rock; Al Coons; Aleshia Duncan; alexancg; Anthony Herbold; Appleman Binkert; B Green; B Russo; Bill King; Bill King2; Bruce Howard; C Lay; C Noser; C Ops; Charles Burrows; Charles Donnell; Christopher Meadow; Clinton Carroll; Conrad Burnside; D Drakeley; D May; D Murakami; D Webb; Damian Peko; Dan Feighert; Darrell Hammons; DHS Ops; DOE NIT; DOT; DTRA; DTRA; Dudek; E Wright; Elmer Naples; EOP; EPA; EPA2; Eric Sinibaldi; F Lewis; G Szeto; G Whitmire; George Higdon; gregopk; Gregory Simonson;"Gretchen McCoy; H; Harry Sherwood; HHS; I Clark; Intel DIA; J Barnes; J Bartlett; J Moeller; J Noonkester; J Szymanski; J Tippets; James Purvis; Japan Embassy Task Force; Japan Pentagon; Jason CIA; Jason Pepin; Jeffrey Conran; Jeremy Demott; Jeremy Morrow; Jeremyft1; Jim Kish; Johanna Berkey; John Holdren; Joyce Connery; K Donald; K Gonzalez; K Ousley; Karyn Keller; Kyle Viayra; L Mayer; Lee Nickel; Lee-Jake Strunk; Lisa; Lisa Hammond; Lukas McMichael; M Huchla; M Kerber; M Lansley; M Thon; M Thon2; maceck; MARFORPAC CAT All Hazards Div; MARFORPAC CAT G2; Mark Shaffer; markwb2; Marshall Shull; Michelle Ralston; Nan Calhoun; Navy; NICC; NMIC; NOC; NOC Duty Director; Nulcear SSA; P Gardner; pentagon; Peter Lyons; Phillip Barks; R Roesler: R Schueneman; Rebecca Thomson; roberhh; Ron Cherry; Ron McCabe; S Basile; S Buntman; S Levy; scotc1; Seamus O'Boyle; seiden; state; Stephen Trautman; Steve Colman; Steve Horwitz; T Gatling; T Roberts; Thomas Conran; Thomas Zerr: Tim Greten; Timothy Hitzelberger; Trent Hughes; Troy Heytens; USDA, John; USMC: Vanessa Ouinn; Victoria Kinsey: W Cluff: W Young: Will Friese: William Harding: William Webb: A Aviles: A Brown: A Estes: A Hough: A Tribble; B goldberg; B Moffat; B Perry; B Woo; Beavers, Shane; Brinser, Andrew; Brooks, Andrae; Brown, Michael; C Fiore: C Good; C Kim; Carlos Islas; CPF CATN5; Craig Gaddis; D Fletcher; D Putthoff; D Scully; D Smith; D Souza; D Wade; D Williams; David Graves; DOE DART; E Fiser; E kaye; E Price; E Shelland; E Train; Elder, Troy M SGT MIL USA USARPAC; Eric Wright; F Bantell; Fossum, Sgt Zachary; Guathier, Ronald; H Zito; Hickam; Hickam; J Blankenburg; J Kreykes; J McCallister; J Rhodes; J Rivera; J Scarbrough; J Soderbeck; J Stewart; J Trussler; James Williams; JR Haley; JTF505-MAIN-JOC-J2; JTF505-MAIN-JOC-J2-INTEL-ANAY; K Bollow; K Bollow; K Tomlinson; Koluch, SSqt Eric; L Bolling; L Elkins: L Heinrich: L Walter: M Howsare: M Kabbur; M Nguyen; M Opfer; M Taafe; M Thon; M Thon; Marina Llewellyn; Michael Anderson: Michael Eberlein: Monaghan, Dylan; N Albritton; N Albritton; NCMI Ops; Office of Secretary of Defense Watch Officer ; Olson, Niels; P Almquist; P Higginbotham; P Higgins; P Lyons; P Smalley; P Somboonpakron; PACOM: PACOM: Pasit Sombookpakron; Powers, Jeffrey; R Backley; R Fisher; R Garrett; R Neff; R Stephenson; R Tashma; Richard, Sqt William; Robert Duke; Robert P; RST01 Hoc; RST01B Hoc; RST03 Hoc; S Aoki; S Jerabek; Sean Basile; Shirey, Sgt Eric; Simmers, Keith; Spencer Nordgran; Spurlock, Kenneth; Stephen Greco; T Baden; T Lowman; T Miller; T Reeves; T Reeves; T True; Tovar, SSgt Eric; (b)(6), (b)(6), USFJ; USFJ Intel; V Raphael; Valerie Makino; Vaughn, Sqt Jerrod; Walter Hokett; Wanda Ayuso; William Brysacz; Andersen, James; Anderson, Joseph; Ash, Darren; Baggett, Steven; Barker, Allan; Batkin, Joshua; Boger, Bruce; Borchardt, Bill; Bradford, Anna; Brenner, Eliot; Breskovic, Clarence: Smith, Brooke: Brown, Frederick: Brown, Milton: Bubar, Patrice: Burns, Stephen: Camper, Larry; Carpenter, Cynthia: Castleman, Patrick: Ader, Charles: Casto, Chuck: Coggins, Angela: Collins, Elmo: ConE Resource; Copeland, Douglas; Correia, Richard; Craffey, Ryan; Dapas, Marc; Dean, Bill; Decker, David; Diaz-Sanabria, Yoira; Dickman-Disabled-11/14/2010, Paul; Dorman, Dan; Droggitis, Spiros; Dyer, Jim; English, Lance; ET02 Hoc; Evans, Michele: Franovich, Mike; Frye, Timothy; Garmon, David; Apostolakis, George; Gibbs, Catina; Giitter, Joseph; Gott,

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William; Grobe, Jack; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; Hoc, PMT12; Holahan, Gary; Holahan, Patricia; HOO Hoc; Howe, Allen; Howell, Art; Howell, Linda; Issa, Alfred; Itzkowitz, Marvin; Foster, Jack; Jackson, Donald; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Jones, Cynthia; Kahler, Robert; King, Mark; Foggie, Kirk; Kock, Andrea; Kozal, Jason; Leeds, Eric; LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Logaras, Harral; Loyd, Susan; Magwood, William; Maier, Bill; Marshall, Jane; Marshall, Michael; McCree, Victor; McDermott, Brian; McIntosh, Angela; McNamara, Nancy; Michalak, Paul; Miller, Charles; Miller, Chris; Monninger, John; Morris, Scott; Nease, Rebecca; Nieh, Ho; NRCHQ; NSIR_DDSP_ILTAB_Distribution; Ordaz, Vonna; Orders, William; OST05 Hoc; Ostendorff, William; Pace, Patti; Patel, Jay; Pearson, Laura; Pederson, Cynthia; Plisco, Loren; Powell, Amy; Quichocho, Jessie; R1 IRC; R2 IRC; R3 IRC; R4 IRC; Reddick, Darani; Reyes, Luis; Devercelly, Richard; Nelson, Robert; ROO hoc; Rothschild, Trip; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Sigmon, Rebecca; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Tabatabai, Omid; Thoma, John; Thomas. Eric; Tifft, Doug; Kolb, Timothy; Ulses, Anthony; Nakanishi, Tony; Tracy, Glenn; Trapp; Trapp, James; Trojanowski, Robert; Turtil, Richard; Uhle, Jennifer; Virgilio, Martin; Warnick, Greg; Warren, Roberta; Weber, Michael; Westreich, Barry; Wiggins, Jim; Cook, William; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Zimmerman, Roy; Zimmerman, Roy; Zorn, Jason; Borchardt, Bill; Cohen, Shari; Cooper, LaToya; Dyer, Jim; ET07 Hoc; Flory, Shirley; Hudson, Sharon; Schwarz, Sherry; Sprogeris, Patricia; Taylor, Renee; Virgilio, Martin; Walker, Dwight; Walls, Lorena; Weber, Michael Subject: USNRC Earthquake-Tsunami Update 041911 DRAFT 1200EDT

From:	Turtil, Richard
Sent:	Wednesday, March 30, 2011 8:21 AM
То:	Virgilio, Rosetta; McGrady-Finneran, Patricia; Ryan, Michelle; Easson, Stuart; Brown, Carrie; Flannery, Cindy; Salomon, Stephen
Cc:	Noonan, Amanda; Ashley, Carol; Saah, Donald; Piccone, Josephine; Jackson, Deborah; 'liao4.hoc@nrc.gov'; OST05 Hoc
Subject:	RTurtil Work At Home Today

As reflected on the DILR calendar, I'll be working at home today. I'll be using Citrix.

I can be reached if necessary on my BB at (b)(6) and of course by e-mail.

Steve: I have your Part 71/73 letter with me; will have it back in your hands tomorrow.

Rich

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From:	Stapleton, Bernard
Sent:	Wednesday, March 30, 2011 12:58 PM
То:	Wiggins, Jim; Virgilio, Martin; Weber, Michael; Zimmerman, Roy; ET05 Hoc; Boger, Bruce
Cc:	Caldwell, Robert; LIA01 Hoc; ET07 Hoc; Holahan, Patricia; Masse, Todd; Hoc, PMT12; Morris, Scott; Mangefrida, Michael; Parsons, Darryl
Subject:	Vince Holahan and communications with him

Jim,

We contacted Vince Holahan to see how we could assist. He is working issue from his end getting training and certificates so that he can use appropriate communications tools (NIPRnet and SIPRnet as well as STE access). This should be taken care of in next few days. He states his real need is identifying appropriate administrative support so he knows who is calling him while he is in conference calls and what numbers to call back on. I've pasted our email traffic with him below. ISB is standing by to assist him as necessary.

Bern

From: Mangefrida, Michael
Sent: Wednesday, March 30, 2011 12:28 PM
To: Stapleton, Bernard
Cc: Dodmead, James; Parsons, Darryl
Subject: FW: Secure Communications

Dr. Holahan's response

From: Holahan, Vincent Sent: Wednesday, March 30, 2011 12:18 PM To: Mangefrida, Michael Subject: Re: Secure Communications

Mike.

NIPR and SIPR net accounts will be set up. Might take a couple of days. System requires a common access card with certificates. Fortunately I have these due to my USAR status. I have taken their IA courses and have valid DoD certificates. This is a consideration for any future replacement.

Phone access isn't the issue. Its getting phone messages. Looking for a admin assistant to receive calls so I can be notified. Yesterday was 4 1/2 hrs of conference calls and another 2 1/2 hrs of group meetings. I have a cubic with phone but I am not there much.

Working it on this end

Cheers Vince

Sent from an NRC Blackberry Vincent Holahan STORES STREET, STORES

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From: Mangefrida, Michael
To: Holahan, Vincent
Cc: Parsons, Darryl; Stapleton, Bernard; Dodmead, James
Sent: Wed Mar 30 12:10:41 2011
Subject: Secure Communications

Dr. Holahan,

I have been tasked with finding the best ways for you to communicate with the NRC while you are in Hawaii. It is my understanding that you are working in a SCIF and are unable to use your Blackberry.

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Would you be able to locate a STE that you would have access to and provide us with the number?

Do you have access to JWICS or SIPRNet, if so do you have an email address you could provide us with?

Other possible means of communication would be a DSN number (unclassified), or an NSTS Phone number.

Please let me know if there is anything I may do to assist you in finding the best ways to communicate with you both at classified and unclassified levels.

Thank you

Mike

Michael Mangefrida IT Specialist (INFOSEC) United States Nuclear Regulatory Commission Office of Nuclear Security and Incident Response Information Security Branch (STE) Michael.Mangefrida@nrc.sgov.gov Michael.Mangefrida@nrc.gov

From: Wiggins, Jim
Sent: Wednesday, March 30, 2011 5:24 AM
To: Virgilio, Martin; Weber, Michael; Zimmerman, Roy; ET05 Hoc; Boger, Bruce
Cc: Caldwell, Robert; LIA01 Hoc; ET07 Hoc; Holahan, Patricia; Masse, Todd; Stapleton, Bernard; Hoc, PMT12; Morris, Scott
Subject: ACTION: WE'VE CONTACTE VINCE HOLAHAN

Confirmed that Vince Holahan is on-station at PACOM. He's working out of a large SCIF so he can't use his BB. We would need to establish comm windows to talk to him....reminds some of us of our former lives.

Days needs to work on other options....e.g. have ILTAB or ISB identify a STE phone number in the PACOM SCIF that we could use or develop some sort of ability to email him real-time.

ET05 - open a tasker on this, assigned to LT.

From:

Sent: To: Cc: Subject: ET07 Hoc Wednesday, March 30, 2011 1:55 PM Evans, Michele Marshall, Jane: Stapleton, Bernard FW: Vince Holahan and communications with him

Michele,

According to the e-mail exchange below, Vince's most pressing need at PACOM is an assistant. If having an assistant integrated into the NRC response with reach-back capabilities to the Ops Center would be of benefit to him, I am available to go help him.

Sally Billings ET Status Officer

From: Stapleton, Bernard
Sent: Wednesday, March 30, 2011 12:58 PM
To: Wiggins, Jim; Virgilio, Martin; Weber, Michael; Zimmerman, Roy; ET05 Hoc; Boger, Bruce
Cc: Caldwell, Robert; LIA01 Hoc; ET07 Hoc; Holahan, Patricia; Masse, Todd; Hoc, PMT12; Morris, Scott; Mangefrida, Michael; Parsons, Darryl
Subject: Vince Holahan and communications with him

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We contacted Vince Holahan to see how we could assist. He is working issue from his end getting training and certificates so that he can use appropriate communications tools (NIPRnet and SIPRnet as well as STE access). This should be taken care of in next few days. He states his real need is identifying appropriate administrative support so he knows who is calling him while he is in conference calls and what numbers to call back on. I've pasted our email traffic with him below. ISB is standing by to assist him as necessary.

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Dr. Holahan's response

From: Holahan, Vincent Sent: Wednesday, March 30, 2011 12:18 PM To: Mangefrida, Michael Subject: Re: Secure Communications

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From: Sent: To: Subject: LIA08 Hoc Wednesday, March 30, 2011 2:38 PM ET05 Hoc; ET07 Hoc; HOO Hoc; ET01 Hoc; Blount, Tom FW: Vince Holahan and communications with him - Have phone number for you

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From: Whitney, James
Sent: Wednesday, March 30, 2011 2:19 PM
To: Stapleton, Bernard
Cc: Masse, Todd; Holahan, Patricia; LIA06 Hoc; LIA08 Hoc
Subject: RE: Vince Holahan and communications with him - Have phone number for you

Vince's direct line is (b)(6)

In case no one answers call - (b)(6)

If that fails call the Senior Watch Office phone number is 808-477-8173

James Whitney Senior Intelligence Analyst Intelligence Liaison and Threat Assessment Branch Office of Nuclear Security and Incident Response U.S. Nuclear Regulatory Commission 301- 415-5253 james.whitney@nrc.gov

From: Stapleton, Bernard Sent: Wednesday, March 30, 2011 1:03 PM To: Whitney, James Cc: Masse, Todd; Holahan, Patricia Subject: FW: Vince Holahan and communications with him

Jim,

I see that Trish assigned this action to you. Please see email string below if this helps in any way.

Bern

From: Stapleton, Bernard
Sent: Wednesday, March 30, 2011 12:58 PM
To: Wiggins, Jim; Virgilio, Martin; Weber, Michael; Zimmerman, Roy; ET05 Hoc; Boger, Bruce
Cc: Caldwell, Robert; LIA01 Hoc; ET07 Hoc; Holahan, Patricia; Masse, Todd; Hoc, PMT12; Morris, Scott; Mangefrida, Michael; Parsons, Darryl
Subject: Vince Holahan and communications with him

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Working it on this end

Cheers Vince

Sent from an NRC Blackberry Vincent Holahan (b)(6)

From: Mangefrida, Michael To: Holahan, Vincent Cc: Parsons, Darryl; Stapleton, Bernard; Dodmead, James Sent: Wed Mar 30 12:10:41 2011 Subject: Secure Communications

Dr. Holahan,

I have been tasked with finding the best ways for you to communicate with the NRC while you are in Hawaii. It is my understanding that you are working in a SCIF and are unable to use your Blackberry.

Would you be able to locate a STE that you would have access to and provide us with the number?

Do you have access to JWICS or SIPRNet, if so do you have an email address you could provide us with?

Other possible means of communication would be a DSN number (unclassified), or an NSTS Phone number.

Please let me know if there is anything I may do to assist you in finding the best ways to communicate with you both at classified and unclassified levels.

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Thank you

Mike

Michael Mangefrida IT Specialist (INFOSEC) United States Nuclear Regulatory Commission Office of Nuclear Security and Incident Response Information Security Branch (STE) Michael Mangefrida@nrc.sgov.gov Michael Mangefrida@nrc.gov

From: Wiggins, Jim
Sent: Wednesday, March 30, 2011 5:24 AM
To: Virgilio, Martin; Weber, Michael; Zimmerman, Roy; ET05 Hoc; Boger, Bruce
Cc: Caldwell, Robert; LIA01 Hoc; ET07 Hoc; Holahan, Patricia; Masse, Todd; Stapleton, Bernard; Hoc, PMT12; Morris, Scott
Subject: ACTION: WE'VE CONTACTE VINCE HOLAHAN

Confirmed that Vince Holahan is on-station at PACOM. He's working out of a large SCIF so he can't use his BB. We would need to establish comm windows to talk to him....reminds some of us of our former lives.

Days needs to work on other options....e.g. have ILTAB or ISB identify a STE phone number in the PACOM SCIF that we could use or develop some sort of ability to email him real-time.

ET05 – open a tasker on this, assigned to LT.

From: Sent: To: Subject: LIA04 Hoc Wednesday, March 30, 2011 2:21 PM Fenner, Jerold (HHS/ASPR/OPEO) RE: Number update - US DHHS Japan Event Follow-Up Call

Jerold,

Can you please confirm that this call will take place this evening, and whether or not the call-in information remains the same?

Thanks

-----Original Appointment-----

From: Fenner, Jerold (HHS/ASPR/OPEO)

Sent: Wednesday, March 23, 2011 7:57 PM

To: Fenner, Jerold (HHS/ASPR/OPEO); 'Ames, Darrell Mr CIV US USA USARPAC: 'pavlinb@wpro.who.int'; 'Iddings, Mr Steven (SP)'; 'Gaynor, Mary Kathleen M.D. (Kate)'; 'Arthy G. Nena'; O'Mallan, Josie (CDC dphss.guam.gov); 'Peter Judicpa'; 'William Kando'; 'michael poblete'; 'siitia@doh.as'; 'Ben Sili'; 'Jacqueline Solaita'; 'Melinda Lawrence - Palauk (())(6) Michael (HHS/ASPR/OPEO); 'Toby L. Clairmont'; Gallo, Bill (CDC/OSTLTS/DPHCD); 'Owolabi, Mojisola'; 'Arcibal, Laura K.'; Rayle, Vicky (CDC/OSTLTS/DPHCD); Walmsley, John (HHS/OASH); 'Cathy Wasem'; Michael, Gretchen (HHS/ASPR/COO); 'Joseph Kevin Villagomez'; Yano, Victor (CDC palau-health.net); Seiuli Elisapeta Ponsusuia, American Samoa DPCP (CDC gmail.com); Langidrik, Justina < Marshall Is> (CDC ntamar.net); McMichael, Janice R. (CDC/OPHPR/DSLR); 'masatomo.nadeau@dphss.guam.gov'; 'leo.casil@dphss.guam.gov'; 'arthur.sanagustin@dphss.guam.gov'; Talbert, Todd (CDC/OPHPR/DSLR); 'marilyn.shigetani@dhs.gov'; 'Voirin, Anthony J LTCOL MIL USAF'; 'kevin.clark@dhs.gov'; 'Michael Epp'; 'Park, Sarah Y., MD'; 'wmiller@USAID.GOV'; Sheehan, Kevin (HHS/ASPR/OPEO); Cooper, Barbara (CDC/OPHPR/DSNS); Roh, Mark S (FDA/ORA); 'Meer.Daniel@epamail.epa.gov'; Piggott, Bill (HHS/ASPR/OPEO); Natarajan, Nitin (HHS/ASPR/OPEO); Sanders, Melissa (HHS/ASPR/OPEO); Simons, Nadine M (HHS/OASH); Schultz, Herb (HHS/IGA/ORD); 'Todd.L.Smith@aphis.usda.gov'; Maler, Bill; 'sarah.hartson@oak.doe.gov'; Smart, John (HHS/ASPR/OPEO); Turtil, Richard; Yee, James C (FDA/ORA); Kreis, Jane M (FDA/ORA); Cc: Piccone, Josephine; Jackson, Deborah; LIA04 Hoc; OST05 Hoc; Pippin, Roger L. (CDC/OPHPR) (CTR); (b)(6) Muldoon, Molly (FDA/OC); Jackson, LeeAnne (FDA/CFSAN); Russo, Mark (FDA/OC); Mahon, John (IHS/HQ); Hancock, Jessica (HHS/OGHA); Karol, Susan (IHS/HQ); Russo, Mark (FDA/OC); Durkin, Robert (FDA/OC); Breadheft, Marc (FDA/OC); Gorski, Wayne A (FDA/OC); McDermott, Catherine (FDA/ORA); LeBlanc, Pamela (FDA/CFSAN); White, Arma (FDA/CFSAN) (CTR); DeLancey, Siobhan (FDA/OC); Kreis, Jane M (FDA/ORA); Verbeten, John E. (ORA) (FDA/ORA); Guzman, Noemi (CDC/OID/NCEZID); Veneziano, Domenic J. (FDA/ORA); McGarry, Sherri A (FDA/CFSAN); Chen, Tai-Ho (CDC/OID/NCEZID) Subject: Updated: Number update - US DHHS Japan Event Follow-Up Call

When: Wednesday, March 23, 2011 8:00 PM-9:00 PM (GMT-05:00) Eastern Time (US & Canada).

Where: 888-455-7847 Passcode Japan Call

Importance: High

The US Department of Health and Human Services will facilitate a follow-up Pacific Islands call to coordinate information sharing and public health messaging among Federal. State and Pacific Jurisdictional partners related to the ongoing radiological events in Japan. On the call we start with a US Federal update, then updates from Hawaii, the Pacific Jurisdictions, and other Pacific Partners.

Date: 23 Mar 2011 (Hawaii)

Time: 5 PM Pacific Time (5 PM Pacific Time is now 2 PM in HI; 1 PM in AS: 12 Noon in RMI; 11 AM in Pohnpei; 10 AM in CNMI, Guam, Chunk and Yap: 9 AM in Palau).

e S Phone Number: 888-455-7847

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Participant Passcode (b)(6)

This communication, along with any attachments, is covered by Federal and state law governing electronic communications and may contain restricted and legally privileged information. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, use or copying of this message is strictly prohibited. If you have received this in error, please reply immediately to the sender and delete this message.

From: Sent: To: Subject: LIA05 Hoc Wednesday, March 30, 2011 4:26 PM FOIA Response.hoc Resource FW: Speaker for a State Health Officials Conference Call

Bonnie Sheffield Dayshift 0700-1500 Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: OST05 Hoc Sent: Friday, March 18, 2011 4:20 PM To: LIA05 Hoc; LIA06 Hoc Subject: FW: Speaker for a State Health Officials Conference Call

From: Natarajan, Nitin (HHS/ASPR/OPEO) [mailto:Nitin.Natarajan@hhs.gov]
Sent: Friday, March 18, 2011 4:18 PM
To: OST05 Hoc; LIA04 Hoc; OS Secretarys Operations Center
Subject: RE: Speaker for a State Health Officials Conference Call

Below is the call-in information. We were hoping for a brief 3-5 minute update, similar to the one provided on our 11am calls. Once the presentations are complete, we'll open the lines for Q&A.

Participants: State/Territorial Health Officials, State/Territorial Preparedness Directors, State/Territorial Radiation Protection Program Leads, State/Territorial Public Affairs Officers, Staff of the Radiation Protection Alliance, NPHIC Staff

Date/Time: Friday March 18, 2011 5:00PM Eastern (We ask that participants dial-in at least five minutes prior to the start of the call)

Agenda:

- 1. NRC Update NRC Staff
- 2. Food Safety Issues FDA Staff
- 3. Repatriation Issues ACF Staff
- 4. HHS Response Update ASPR/CDC
- 5. HHS Public Affairs Update Gretchen Michael
- 6. Discussion on future calls to include topics and frequency
- 7. Q&A

Dial-in Information

Toll-Free Phone Number: 888-769-8712 Toll Phone Number: 312-470-0079 Passcode: (b)(6)

Thanks again.

Ν

Nitin Natarajan Coordinating Director HHS/ASPR/OPEO 202-260-2002 Office (b)(6) STE Cellular

nitin.natarajan(a)hhs.gov E-mail

From: OST05 Hoc [mailto:OST05.Hoc@nrc.gov]
Sent: Friday, March 18, 2011 4:15 PM
To: Natarajan, Nitin (HHS/ASPR/OPEO); LIA04 Hoc; OS Secretarys Operations Center
Subject: RE: Speaker for a State Health Officials Conference Call

Nitin,

This is the NRC Liaison Team, Cardelia Maupin. Please verify the call in information. It is indicated that it is below, but we only have your contact information. Thanks

Cardelia Maupin State Liaison – Liaison Team, U.S. Nuclear Regulatory Commission Incident Response Center 301-816-5100, State Liaison

From: Natarajan, Nitin (HHS/ASPR/OPEO) [mailto:Nitin.Natarajan@hhs.gov]
Sent: Friday, March 18, 2011 3:51 PM
To: LIA04 Hoc; OS Secretarys Operations Center
Cc: OST05 Hoc
Subject: RE: Speaker for a State Health Officials Conference Call

Thank you.

The information is below. When you connect in, please let them know that you are a speaker and they will leave your line open. We expect the updates to be brief, only several minutes each if that then we'll open it up to Q&A.

Thanks in advance for your time and assistance.

Ν

Nitin Natarajan Coordinating Director HHS/ASPR/OPEO 202-260-2002 Office

Cellular nitin.natarajan@hhs.gov E-mail

From: LIA04 Hoc [mailto:LIA04.Hoc@nrc.gov] Sent: Friday, March 18, 2011 3:46 PM To: Natarajan, Nitin (HHS/ASPR/OPEO); OS Secretarys Operations Center Cc: OST05 Hoc Subject: RE: Speaker for a State Health Officials Conference Call

Importance: High

We are able to support this meeting. Please provide call-in details. Thank you.

Richard Turtil State Liaison – Liaison Team, U.S. Nuclear Regulatory Commission Incident Response Center 301-816-5100, State Liaison

From: LIA06 Hoc Sent: Friday, March 18, 2011 3:42 PM To: LIA04 Hoc Subject: FW: Speaker for a State Health Officials Conference Call

Liaison Team Director U.S. Nuclear Regulatory Commission Operations Center

From: LIA08 Hoc Sent: Thursday, March 17, 2011 10:41 PM To: LIA06 Hoc Cc: LIA02 Hoc Subject: RE: Speaker for a State Health Officials Conference Call

Mark,

I took a call from Watch Officer Svi Gruenspecht while Jerry was out an hour or so ago. HHS is looking for NRC staff to support a briefing of State reps tomorrow at 5:00 PM. I informed Svi that we (NRC staff) have been directed not to provide information on the events at the Fukushima Daiichi plant because (1) we do not have access to reliable, verified information and (2) we would not want to get ahead of the Japanese government in their information. He clarified that the State reps would perhaps be more interested in advisories for States. I told him that there were no advisories to my knowledge because there is no threat. He understood and asked for someone to let him know if we will be able to support the briefing or not.

Someone needs to get back to him and Nitin Natarajan by email (address is provided below).

Rani

From: Franovich, Rani
Sent: Thursday, March 17, 2011 10:28 PM
To: 'hhs.soc@hhs.gov'
Cc: LIA08 Hoc; LIA06 Hoc; LIA02 Hoc
Subject: Re: Speaker for a State Health Officials Conference Call

Got it... Will be in touch. Rani Franovich

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From: Gruenspecht, Zvi (HHS/ASPR) <Zvi.Gruenspecht@hhs.gov>
To: Franovich, Rani
Cc: Natarajan, Nitin (HHS/ASPR/OPEO) <Nitin.Natarajan@hhs.gov>; OS Secretarys Operations Center
<hhs.soc@hhs.gov>
Sent: Thu Mar 17 21:57:44 2011
Subject: Speaker for a State Health Officials Conference Call

Ma'am,

HHS is looking for a speaker from the NRC to provide a brief 5-10 minute update to the State Health Officials and their key staff on a conference call tomorrow at 1700EDT.

Mr. Natarajan is coordinating the call and can provide further information and the dial-in number. I have provided his contact information below:

Nitin Natarajan Coordinating Director HHS/ASPR/OPEO 202-260-2002 Office STE (b)(6)_____STE Cellular nitin,natarajan@hhs.gov

Very Respectfully,

Zvi Gruenspecht Watch Officer Secretary's Operations Center U.S. Department of Health and Human Services 200 Independence Ave S.W. Washington D.C. 20201 Office: 202-619-7800 Facsimile: 202-619-7870

From:	LIA05 Hoc
Sent:	Wednesday, March 30, 2011 6:43 PM
To:	DONNACHIE, JOHN P
Cc:	LIA06 Hoc; LIA08 Hoc; LIA01 Hoc; LIA11 Hoc; Dan Feighert; Andrew Seward; Harry
	Sherwood; John Simpson; Lisa Hamilton; Michelle Ralston; Rebecca Fontenot; Steve
	Horwitz; Tim Greten; Vanessa E. Quinn
Subject:	RE: Contact Information

Importance:

Mr. Donnachie,

Thank you for the response.

Bonnie Sheffield Dayshift 0700-1500 Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: DONNACHIE, JOHN P [mailto:john.donnachie@dhs.gov] Sent: Wednesday, March 30, 2011 6:41 PM To: LIA05 Hoc Subject: RE: Contact Information

Please note my contact information as requested. However, I am deeply engaged with matters within Customs and Border Protection and I do not think CBP senior management would be willing to spare me at this time. Also, I would not consider myself a core melt expert as indicated in a past email.

From: prvs=063b80882=LIA05.Hoc@nrc.gov [mailto:prvs=063b80882=LIA05.Hoc@nrc.gov] On Behalf Of LIA05 Hoc Sent: Wednesday, March 30, 2011 6:32 PM

To: DONNACHIE, JOHN P
Cc: LIA06 Hoc; LIA08 Hoc; Feighert, Dan; Seward, Andrew; Sherwood, Harry; Simpson, John; Hamilton, Lisa; Ralston, Michelle; Fontenot, Rebecca; Horwitz, Steve; Greten, Timothy; Quinn, Vanessa
Subject: Contact Information
Importance: High

Mr. Donnachie,

Could you please provide the Nuclear Regulatory Commission your contact information? Again, they are awaiting to see if you are allowed to work with industry representatives (INPO) in response to the incident in Japan. Send it to <u>LIA06.Hoc@nrc.gov</u>. Please cc me at <u>LIA05.Hoc@nrc.gov</u>. Thank you again for your assistance to this matter.

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Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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NOTE New Time for the Daily Consortium Call Subject: Start: Wed 3/30/2011 8:00 PM End: Wed 3/30/2011 9:00 PM Show Time As: Tentative Recurrence: (none) **Meeting Status:** Not yet responded LIA01 Hoc Organizer: **Required Attendees:** Aoki Steven; Blamey, Alan; Blount, Tom; Boger Bruce; Casto, Chuck; Dorman, Dan; ET05 Hoc; ET07 Hoc; FOIA Response; Giitter, Joseph; Golub Sal; Golub Sal; Good Charles; Hochevar Al; HOO Hoc; INPO; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Lyons Peter; McDermott, Brian; McGinty, Tim; Miller, Chris; Monninger, John; Morris, Scott; NRC Liaison functional account at USAID; OST02 HOC; Pentagon Japan Crisis Team J-4 Desk; PMT12; Ross-Lee, MaryJane; RST01 Hoc; RST01B Hoc; Vavoso Tom; Virgilio, Martin; Weber, Michael; Webster William; Wiggins, Jim; Zimmerman, Roy

When: Wednesday, March 30, 2011 8:00 PM-9:00 PM (GMT-05:00) Eastern Time (US & Canadà).

Note: The GMT offset above does not reflect daylight saving time adjustments.

~~*~*~*~*~*~*

Please note that the standing time for the daily Consortium Call is now at 2000hrs. EDT to better accommodate the Site Team's participation in Japan.

The Call In number is (b)(6) (Passcode: (b)(6)

Attached please find:

- Meeting Minutes for the 3/29 Call
- Agenda for the 3/30 Call
- DRAFT of a consolidated action item list (Japanese Government Action Items and Material Request List)

1

Thank you for your support-

Lisa Gibney Wright Federal Liaison Desk Officer US Nuclear Regulatory Commission Desk Ph: 301-816-5816



Embassy Fax: 81-3-3224-5538

Team Room: 81-3-3224-5066

EVERYBODY IS STAYING AT HOTEL IN TOKYO



Subject: Location:	US DHHS Japan Event Follow-Up Call telcon: Number: 888-455-7847, Passcode: ()(6)(6)
Start: End:	Wed 3/30/2011 8:00 PM Wed 3/30/2011 8:30 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer: Required Attendees:	РМТ03 Нос РМТ07 Нос; Нос, РМТ12; РМТ09 Нос; РМТ02 Нос
Importance:	High
FYI.	

Cardelia Maupin NRC Operations Center State Liaison

Subject: US DHHS Japan Event Follow-Up Call **Importance:** High Friends,

The US Department of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response (ASPR) will facilitate a follow-up Pacific Islands call to coordinate information sharing and public health messaging among Federal, State and Pacific Jurisdictional partners related to the ongoing radiological event in Japan. On the call we start with a US Federal update, then updates from Hawaii, the Pacific Jurisdictions, and other Pacific Partners.

Date: 30 Mar 2011 (Hawaii)

Time: 5 PM Pacific Time (5 PM Pacific Time is now 2 PM in HI; 1 PM in AS; 12 Noon in RMI; 11 AM in Pohnpei; 10 AM in CNMI, Guam, Chuuk and Yap; 9 AM in Palau).

Phone Number: 888-455-7847

Participant Passcode: (b)(6)

Jerry

Jerold Fenner, MPH, MEP Regional Emergency Coordinator, Region IX US Dept. of Health & Human Services Office of the Assistant Secretary for Preparedness & Response このがえ うちゃ いたの 熟然に 読ん たくい たんだいがく

90 7th Street, Suite 3-350 San Francisco, CA 94103 Office: (415) 633-5501 Cell: (0)(6) Jerold Fenner@hhs.Gov

This communication, along with any attachments, is covered by Federal and state law governing electronic communications and may contain restricted and legally privileged information. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, use or copying of this message is strictly prohibited. If you have received this in error, please reply immediately to the sender and delete this message.

PMT03 Hoc
Wednesday, March 30, 2011 9:16 PM
LIA08 Hoc
Hoc, PMT12
FW: rev 19 of the Reoccurring Daily Actions and Calls
Reoccurring Daily Actions and Calls Rev 19.docx

Jeff,

Can you please add a reoccurring call to the list for Wednesday's at 8pm :

20:00	HHS call with Pacific	ннѕ	Meeting occurs each Wednesday evening 888-455-7847, Participant Passcode: (b)(6) Fenner: 415-633-5501 may provide new I PMT to participate in call for information
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Thanks,

PMT

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From: Hoc, PMT12 Sent: Wednesday, March 30, 2011 8:43 PM To: PMT03 Hoc Subject: FW: rev 19 of the Reoccurring Daily Actions and Calls

From: LIA08 Hoc Sent: Wednesday, March 30, 2011 8:11 PM To: LIA06 Hoc; LIA02 Hoc; LIA01 Hoc; LIA07 Hoc; Hoc, PMT12; PMT01 Hoc; RST01 Hoc; RST07 Hoc; ET01 Hoc; ET05 Hoc; ET07 Hoc; HOO Hoc; LIA05 Hoc Subject: rev 19 of the Reoccurring Daily Actions and Calls

Attached for your use is revision 19 of the subject document. This revision reflects the daily industry consortium call moving to 8 pm and one daily Commissioners Assistants call.

Please let me know if any changes need to be made to the attached list.

Jeff Temple Liaison Team Coordinator Sec. Charling " 2 at

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From: Sent: To: Subject:

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RST06 Hoc Wednesday, March 30, 2011 10:37 PM Gibson, Kathy RE: Request for Ops Center RTS support

You'd be sure that I shouldn't sing! ③

From: Gibson, Kathy Sent: Wednesday, March 30, 2011 6:37 PM To: RST06 Hoc Subject: Re: Request for Ops Center RTS support

Let's hear you sing, just to be sure! ;-)

From: RST06 Hoc To: Gibson, Kathy Sent: Wed Mar 30 18:33:17 2011 Subject: RE: Request for Ops Center RTS support

Thanks Kathy.

Its Cher, oops, no its Fred

From: Gibson, Kathy
Sent: Wednesday, March 30, 2011 6:05 PM
To: RST06 Hoc; Ruland, William; Arndt, Steven; Skeen, David; Cheok, Michael; Coe, Doug
Cc: Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Scott, Michael; Tinkler, Charles; Cool, Donald; Correia, Richard
Subject: Re: Request for Ops Center RTS support

First, I can't tell who "me" is. Suggest if you are using an HOC email address you first say who you are.

Second, RES has the lead for both items, DSA (me) for the first one and DRA (Doug Coe) for the second one. I added Rich Correia to the distribution as he is our new DRA division director and Doug Coe's father passed away so he is gone.

Richard Lee is our POC with the Ops Center. Charlie Tinkler is the staff person working the first item and Mary Druin is working the second item.

Let us know (preferably via Richard) if you need anything else.

From: RST06 Hoc
To: Ruland, William; Arndt, Steven; Skeen, David; Cheok, Michael; Gibson, Kathy; Coe, Doug
Cc: Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Scott, Michael; Tinkler, Charles; Cool, Donald
Sent: Wed Mar 30 17:35:33 2011
Subject: RE: Request for Ops Center RTS support

Just noticed that I'm not even on the distribution. Please add me. Thanks.

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From: RST06 Hoc Sent: Wednesday, March 30, 2011 5:34 PM To: Ruland, William; Arndt, Steven; Skeen, David; Cheok, Michael; Gibson, Kathy; Coe, Doug Cc: Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Scott, Michael; Tinkler, Charles; Cool, Donald Subject: RE: Request for Ops Center RTS support

Thanks Bill. You must be a fan of other tired, old, acts too - Cher maybe?

Before responding, can I ask that whomever has stepped-up to take the lead for this do a respond-all to let us know?

Objective for first question (energetic release potential): this information is important to the Ambassador in Japan and the US military command that would be responsible for movement of US citizens who were ordered to be evacuated from any locations in the Pacific. In fact, the Pacific Command asked the same question of the NRC at today's Deputies Meeting that is attended by the Chairman. The answer to this question may also impact when we as the NRC ramp down our activities? We should attempt to address this by Friday (4/1).

Objective for the second question is to support multiple questions/actions. There have been many requests of the PMT for "realistic" dose models. The RST Assessment document (original e-mail was supposed to have it attached, but I've added to this incase it did not go out the first time) also contains recommended actions for the Japanese to consider. These recommendations are based on the SAMGS, which all are intended to protect primary containment is damaged on at least two units, we need to assess whether there may be new considerations/priorities that are not captured by the SAMGs. Also, the product of this effort helps us better clarify the assessment of potential energetic releases, along with identifying the best strategies to ensure that they don't happen. This item does not have as short a deliverable date unless the PMT has one that I'm not aware of, but is still very significant in terms of our recommendations. Can we complete by Monday (4/4)?

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Of course, my request should be seen as the start of a process, and that others should add to it in order to shape into an end product that goes beyond, or corrects, the vision that I started with.

Fred

From: Ruland, William

Sent: Wednesday, March 30, 2011 10:36 AM
To: Arndt, Steven; Skeen, David; RST06 Hoc; Cheok, Michael; Gibson, Kathy
Cc: Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Coe, Doug; Scott, Michael
Subject: RE: Request for Ops Center RTS support

Great thinking! I've always been a Fred Brown fan! For my benefit, what is the objectives for this task and by when do we need to get the answers?

Regarding the core damage percentages, I understand that they were early numbers. Are we yet in a position to revise them?

Bill

From: Arndt, Steven
Sent: Wednesday, March 30, 2011 7:33 AM
To: Skeen, David; RST06 Hoc; Cheok, Michael; Gibson, Kathy
Cc: Ruland, William; Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Coe, Doug; Scott, Michael
Subject: Re: Request for Ops Center RTS support

I agree with Dave, this should be done out side of the Op Center. A group of RES folks are already doing some analysis is this area (DRA and DSA) to support the PMT. We should task them to do this and provide them with additional resources if needed.

Sent from a NRC blackberry Steven Arndt (b)(6)

From: Skeen, David
To: RST06 Hoc; Cheok, Michael; Gibson, Kathy
Cc: Ruland, William; Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Coe, Doug; Scott, Michael; Arndt, Steven
Sent: Tue Mar 29 23:43:46 2011
Subject: Re: Request for Ops Center RTS support

Good thought, Fred.

I think this would be a worthwhile task, and I think we need a small group of severe accident experts to discuss the potential worst case outcomes for each scenario.

I believe this effort should be conducted outside of the RST, on the normal day shift, with either NRR or RES taking the lead to put a team together to develop the potential outcomes.

Please let me know if you need any support from NRR/DE. We could potentially offer Steve Arndt to support.

From: RST06 Hoc

To: Cheok, Michael; Gibson, Kathy
Cc: Ruland, William; Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; Skeen, David; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Coe, Doug; Scott, Michael; RST01 Hoc
Sent: Tue Mar 29 23:01:43 2011
Subject: RE: Request for Ops Center RTS support

Please see below.

From: Brown, Frederick
Sent: Tuesday, March 29, 2011 10:56 PM
To: Cheok, Michael; Gibson, Kathy
Cc: Ruland, William; Dudes, Laura; Uhle, Jennifer; Hiland, Patrick; Hackett, Edwin; Skeen, David; RST01 Hoc; Hoc, PMT12; McDermott, Brian; Coe, Doug; Scott, Michael; Brown, Frederick; RST01 Hoc
Subject: Request for Ops Center RTS support
Importance: High

Mike, Kathy

First, I'm not sure that you two are the right folks to ask, but I know that you'll know where this should go.

I'd like to have folks with the right skill set look at two issues (the two are inter-related, but the first may be easier to give a quick answer to without the work that the second will take):

 Given the known, or assumed, status of the three units and four pools, what realistic scenarios exist for energetic dispersion of high quantities of radioactive material that would result in mobile plumes? The point of this question is that there are many clear scenarios that present significant near-area radiological challenges, but given the time since shutdown (for the operating units) and age of much of the fuel (in the SFPs) what are the remaining scenarios of concern with respect to more distant locations (Tokyo with a large concentration of US citizens, Alaska, Hawaii, etc).

2) Given the assumed condition of the three units and four pools, can we generate basic event trees for the coming weeks/months? The point would be to identify key success criteria and to help identify key decision points/risk factors to be balanced (qualitative not quantitative analysis). For instance, take two units, each with significant core damage and prior release of volatile fission products, each with primary and secondary containment failure, but one with an intact RPV and the other with a breach of RPV - would there be a difference in potential releases that would lead to different strategies for flooding the primary containment of these two units? This question will make more sense if you look at the assumed conditions below and the attached assessment document where we recommend that TEPCO utilize the SAMG recommendation to flood all 3 units' containments.

Note that the intent is to limit this activity to hours and days, not weeks or years. Once we validate the concept of this evaluation, we can turn it over to US industry for further action/development.

Assumed status (slightly different than the status in the attached assessment):

Unit 1 Rx: Shutdown 3/11. 70% core damage. Cooling with 30 gpm. Significant salt deposits in vessel, core spay plugged. Primary pressure 65 psig. Drywell pressure 25 psig. Secondary containment destroyed. Containment has been vented at least once since fuel damage occurred. Attempting to establish Nitrogen purge prior to resuming venting.

Unit 2 Rx: Shutdown 3/11. 30% core damage. Significant salt deposits in vessel/drywell. Assumed RPV breach, with at least some core ex-vessel that ocurred approximately 3/15. Primary containment breached in the torus. Secondary containment breached. Significant release of volatile fission products has occurred through both airborne release and also via water drainage out of the Rx building.

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Unit 3 Rx: same assumptions as Unit 2, but do not assume RPV failure and location of primary containment breach may be the drywell.

SFP 1: 292 bundles. Pool intact. All fuel at least 12 years old. No secondary containment. Rubble on top of pool. Water can be added through external spray. Now at saturation temperature.

SFP 2: 587 bundles. Pool intact. Water added to the point of pool over-flow. Pool had reached saturation temperature at one time.

SFP 3: 548 bundles. ¼ core offload previous refueling. No checker boarding of hotter fuel. Structural damage to pool area suspected. Pool leakage possible. External addition of water has been made repeatedly, but flooding of pool may not be possible due to damage.

SFP 4: 1331 bundles. Full core offload about 120 days ago. No checker boarding of hotter fuel. Structural damage to pool area is known to exist, and structure may not support a full pool weight load. Pool leakage likely, requiring addition of water periodically. Pool was likely dry enough to have cladding/water reaction which produced enough hydrogen to lead to catastrophic explosion that destroyed secondary containment.

PMT09 Hoc Thursday, March 31, 2011 9:40 AM LIA08 Hoc RE: New proposal for Cargo

This is the only comment the PMT wishes to send.

From: LIA08 Hoc Sent: Thursday, March 31, 2011 9:39 AM To: PMT09 Hoc Subject: RE: New proposal for Cargo

Is this the only comment you wish to send or is it as stated an additional comment? If additional please combine with the original comment and resend.

From: PMT09 Hoc Sent: Thursday, March 31, 2011 9:34 AM To: LIA06 Hoc; LIA08 Hoc; LIA01 Hoc Cc: PMT03 Hoc; Hoc, PMT12; Jones, Cynthia Subject: RE: New proposal for Cargo

Attached is an additional comment from the PMT with respect to the subject document on cargo screening.

Michelle Hart PMT - RAAD

From: Sent:

To:

Subject:

From: PMT03 Hoc Sent: Thursday, March 31, 2011 9:31 AM To: PMT09 Hoc Subject: FW: New proposal for Cargo

From: LIA08 Hoc Sent: Thursday, March 31, 2011 8:03 AM To: Hoc, PMT12; PMT03 Hoc Subject: FW: New proposal for Cargo

FYI – the original request for comments came from Warren M. Stern Director,m Domestic Nuclear Detection Office Department of Homeland Security

From: LIA08 Hoc Sent: Wednesday, March 30, 2011 6:39 PM To: Lewis, Robert; Cook, John Subject: FW: New proposal for Cargo

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For your info. Please call me at (6)(6) if you have any questions. Jeff Temple

From: PMT02 Hoc Sent: Wednesday, March 30, 2011 6:27 PM To: Hoc, PMT12; LIA08 Hoc Subject: RE: New proposal for Cargo

Please see our comments on the New proposal for Cargo as discussed in the attached mark up.

Please forward this information to Robert Lewis and John Cook.

Ron LaVera PMT02

......

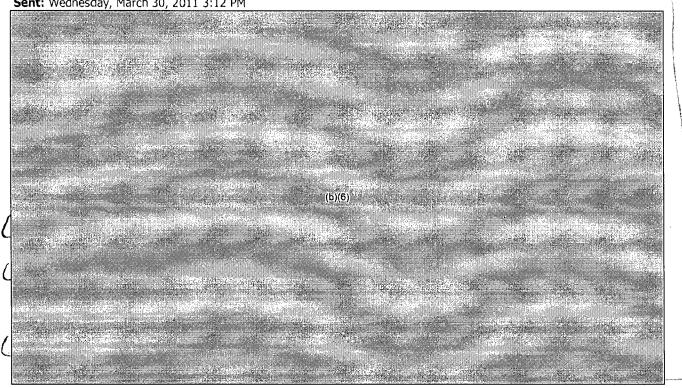
From: Hoc, PMT12 Sent: Wednesday, March 30, 2011 6:22 PM To: PMT02 Hoc Subject: FW: New proposal for Cargo

From: Sent: Wednesday, March 30, 2011 3:18 PM

To: ET01 Hoc; Hoc, PMT12; PMT01 Hoc; RST01 Hoc; McDermott, Brian **Subject:** FW: New proposal for Cargo

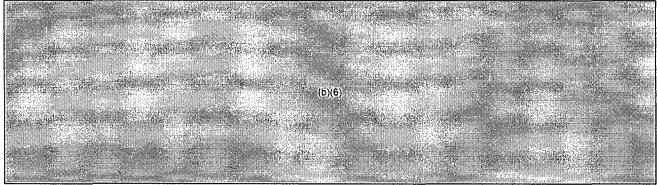
Any thoughts on the DHS/DDNO plan attached? Jeff Temple.

From: Stern, Warren [mailto:Warren.Stern@dhs.gov] **Sent:** Wednesday, March 30, 2011 3:12 PM



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ALL COMMONSTATISTICS

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Subject: New proposal for Cargo

I have attached a proposal for dealing with the Cargo issue and would welcome your input. The basic concept is simple. Instead of converting contamination levels to dose, we propose to measure contamination levels more or less directly, using mobile portals on a sampling of cargo from Japan. We will use the DOT contamination limit of 22,000 DPM/100 cm2. We have a sound scientific basis for estimating surface contamination from portal count rates as described in the attached paper.

Please provide any comments by 10 AM tomorrow.

Best regards

Warren M. Stern Director Domestic Nuclear Detection Office Department of Homeland Security 202-254-7300 (Office)

From: Sent: To: Subject: LIA01 Hoc Thursday, March 31, 2011 9:11 AM LIA08 Hoc; LIA06 Hoc FW: New proposal for Cargo

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John/Milt,

FYSA, not sure if we need to do anything for this issue, but I'm thinking PMT closed this task.

Jason

From: PMT03 Hoc Sent: Thursday, March 31, 2011 7:45 AM To: LIA07 Hoc; LIA01 Hoc; LIA02 Hoc Cc: Hoc, PMT12; OST01 HOC; OST02 HOC Subject: RE: New proposal for Cargo

This email is in response to NRC task tracker 3419. The PMT has reviewed the DHS proposal re: cargo screening. The PMT has no objection or comments on the subject plan. Comments were due to DHS by 10:00 on 3/31. Regards,

(b)(6)

Duane (PMT Coord)

From: Hoc, PMT12 Sent: Thursday, March 31, 2011 1:09 AM To: LIA01 Hoc Subject: FW: New proposal for Cargo

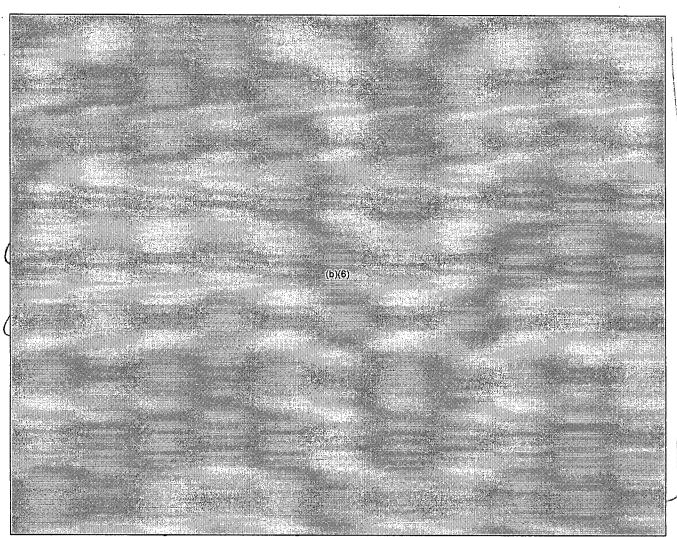
Same result with the backup data to support.

From: OST01 HOC Sent: Wednesday, March 30, 2011 3:56 PM To: PMT02 Hoc; PMT11 Hoc; Hoc, PMT12 Subject: FW: New proposal for Cargo

From: LIA07 Hoc Sent: Wednesday, March 30, 2011 3:18 PM To: OST01 HOC; OST02 HOC Subject: FW: New proposal for Cargo

Should someone here look at this? Please forward as appropriate. Thanks, Sara

From: Stern, Warren [mailto:Warren.Stern@dhs.gov] Sent: Wednesday, March 30, 2011 3:12 PM



Subject: New proposal for Cargo

I have attached a proposal for dealing with the Cargo issue and would welcome your input. The basic concept is simple. Instead of converting contamination levels to dose, we propose to measure contamination levels more or less directly, using mobile portals on a sampling of cargo from Japan. We will use the DOT contamination limit of 22,000 DPM/100 cm2. We have a sound scientific basis for estimating surface contamination from portal count rates as described in the attached paper.

Please provide any comments by 10 AM tomorrow.

Best regards

Warren M. Stern Director Domestic Nuclear Detection Office Department of Homeland Security 202-254-7300 (Office) (b)(6) (Blackberry)

From: Sent: To: Subject: LIA02 Hoc Thursday, March 31, 2011 12:04 PM ET02 Hoc; LIA03 Hoc RE: Urgent Request

Her hotel info is as follows:



This should be good. Or should we send it to her at the Embassy?

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From: ET02 Hoc Sent: Thursday, March 31, 2011 12:01 PM To: LIA02 Hoc; LIA03 Hoc Subject: FW: Urgent Request Importance: High

Can you provide an address? Thanks...karen

From: Heard, Robert Sent: Thursday, March 31, 2011 11:56 AM To: ET02 Hoc Cc: Erskine, Pamela; Reyes, Debra; Turner, Joseph Subject: Urgent Request

Please provide an address where we can send a new Air Card for Danielle Emche, as we are aware that her AirCard is not working properly. If we can get an address today, we should be able to get the card to her before the next NRC arrivals.

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Robert Heard Jr. OIS/ICOD/ISPT (301)415-6393 Robert.Heard@nrc.gov From: Sent: To: Subject: Erlanger, Craig Thursday, March 31, 2011 3:10 PM ET07 Hoc Re: watch bill

Yes Sir

Sent from an NRC blackberry (b)(6) Craig Erlanger

From: ET07 Hoc To: Erlanger, Craig Sent: Thu Mar 31 15:09:24 2011 Subject: watch bill

Craig

I think the last version of the watchbill was incorrect. It listed you for Mon, Tuesday, and Wednesday 3-11 next week.

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Our agreement was Tuesday and Wednesday. Am I correct.

We will change the watch bill

Bill

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From:	LIA05 Hoc
Sent:	Thursday, March 31, 2011 3:11 PM
То:	Mingledolph, Juvart
Subject:	RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Importance:

High

Mr. Mingledolph,

Is there a rotation delineated past April 2? Also, who is assigned for this Saturday since the individuals you identified for the NRC Operations Center this Saturday contacted Ms. Sheffield yesterday and stated that they were not covering the watch.

Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: Mingledolph, Juvart [mailto:Juvart.Mingledolph@dhs.gov] Sent: Friday, March 25, 2011 7:20 PM To: THD-Employees; LIA05 Hoc Subject: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011) Importance: High

All

Attached Is the Daily Rosters for the FEMA Technological Hazards Division Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011). If you have any questions for FEMA-THD-JE Team regarding the Japan Earthquake, please contact the assigned Action Officer and Team Leads.

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Thank You

Juvart T .Mingledolph II

Lead Program Specialist Professional Continuity Practitioner Business Operations Branch Technological Hazards Division National Preparedness Directorate Federal Emergency Management Agency US Department of Homeland Security Office: 202-212-2332 * Mobile: (b)(6) Email: <u>iuvart.mingledolph@dhs.gov</u>

"Moving At The Speed Of Business"

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From:	Feighert, Dan <dan.feighert@dhs.gov></dan.feighert@dhs.gov>
Sent:	Thursday, March 31, 2011 3:26 PM
То:	LIA05 Hoc; Nash Jr, Harry W; larry.broockerd@dhs.gov
Cc:	Dan Feighert; Andrew Seward; Lisa Hamilton; Michelle Ralston; Rebecca Fontenot;
	Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject:	RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

We are working on a new schedule starting on Saturday. I am waiting to discuss with Tim Greten and get his approval. Al or I will provide details later this afternoon or first thing tomorrow morning.

Dan

From: prvs=064dea3aa=LIA05.Hoc@nrc.gov [mailto:prvs=064dea3aa=LIA05.Hoc@nrc.gov] On Behalf Of LIA05 Hoc
Sent: Thursday, March 31, 2011 1:20 PM
To: Nash Jr, Harry W; larry.broockerd@dhs.gov
Cc: Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Lisa Hamilton; Michelle Ralston; Rebecca Fontenot; Steve Horwitz; Tim Greten; Vanessa E. Quinn
Subject: RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Gentlemen,

Did you find someone to cover your assignments on Saturday?

Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: Nash Jr, Harry W [mailto:Harry.NashJr@dhs.gov] Sent: Tuesday, March 29, 2011 10:13 PM To: LIA05 Hoc Subject: Re: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Ken,

I do not understand why in the world they would put me on the schedule the day after I come back from training in Florida.

I will see if someone can cover for me until Tuesday then I will cover for them.

Harry

From: prvs=063b80882=LIA05.Hoc@nrc.gov <prvs=063b80882=LIA05.Hoc@nrc.gov>

To: larry.broockerd@dhs.gov <Larry.Broockerd@dhs.gov>; harry.nashjr@dhs.gov <Harry.NashJr@dhs.gov> Sent: Tue Mar 29 20:47:34 2011

Subject: FW: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

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Gentlemen,

I just want to make sure you know about this schedule.

Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: Mingledolph, Juvart [mailto:Juvart.Mingledolph@dhs.gov]
Sent: Friday, March 25, 2011 7:20 PM
To: THD-Employees; LIA05 Hoc
Subject: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)
Importance: High

All

Attached Is the Daily Rosters for the FEMA Technological Hazards Division Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011). If you have any questions for FEMA-THD-JE Team regarding the Japan Earthquake, please contact the assigned Action Officer and Team Leads.

2

Thank You

Juvart T .Mingledolph II

Lead Program Specialist Professional Continuity Practitioner Business Operations Branch Technological Hazards Division National Preparedness Directorate Federal Emergency Management Agency US Department of Homeland Security

_Office: 202-212-2332 | Mobile: [_____(b)(6)]_____ | Email: juvart.mingledolph@dhs.gov

"Moving At The Speed Of Business"

From: Sent: To: Cc: Subject: Brown, Cris Thursday, March 31, 2011 4:20 PM ET02 Hoc; Heard, Robert LIA02 Hoc; LIA03 Hoc RE: ELMO COLLINS BLACKBERRY

Per LIA last evening, he was leaving Japan 3/31.

Cris Brown IT Branch Chief Program Management, Policy Development and Analysis Staff Office of Nuclear Security and Incident Response Office: 301-415-5768 BlackBerry: (6)(6)

From: ET02 Hoc Sent: Thursday, March 31, 2011 3:03 PM To: Heard, Robert Cc: LIA02 Hoc; LIA03 Hoc; Brown, Cris Subject: ELMO COLLINS BLACKBERRY

Rob:

According to the OIP staff here in the Ops Center, they are not sure if Todd Jackson has left Japan or is planning to leave. They have sent him an e-mail trying to confirm this so we shouldn't move blackberries until we receive confirmation on their status. We'll let you know when we know. Thanks...karen



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Contact Group Name:

Industry List (Rev 4/20)

Members:

Accident Analyst

Bettis Contacts

(b)(6)

BWR Analysist Damian Peko

(b)(6)

Desiree Govans (b)(6) ENERGY GEH ICC Engineering (GE Power & Water)

EPRI Dave Modeen EPRI Event Response Center GE Hitachi NucResponseTeam (b)(6) Holahan, Vincent INPO ERC INPOERCTECH (b)(6) Joel Pero (Bettis) Johne Kelly (b)(6) Lela Doyle (KAPL) LTJG Devin Bush-PACOM Martha Shields Mike Brown Patrick Schwab **Richard Stark Rob Versluis RST** Communicator RST01B Hoc RST03 Hoc RST07 Hoc **Russell Morales** Sal Golub

(þ)(6)

RST09.hoc@nrc.gov (b)(6) BMPC_ECC.Contractor@unnpp.gov (b)(6) RST08.hoc@nrc.gov Damian.Peko@nuclear.energy.gov (b)(6) desiree.govans@em.doe.gov

GEH.ICCEngineering@ge.com dmodeen@epri.com EventResponse@epri.com GE.HitachiNuclearResponseTeam@ge.com (b)(6) Vincent.Holahan@nrc.gov inpoerc@inpo.org inpoerctech@inpo.org (b)(6) joel.pero.contractor@unnpp.gov iohne.kelly@nuclear.energy.gov (b)(6) lela.doyle.contractor@unnpp.gov (b)(6) martha.shields@nuclear.energy.gov michael.brown@nrc.gov Patrick.Schwab@nuclear.energy.gov Richard.Stark@nuclear.energy.gov ROB.VERSLUIS@nuclear.energy.gov RST16.hoc@nrc.gov RST01B.Hoc@nrc.gov RST03.Hoc@nrc.gov RST07.Hoc@nrc.gov MoralesRA@state.gov sal.golub@nuclear.energy.gov

(b)(6)

From:Padilla, WilliamSent:Thursday, March 31, 2011 6:00 PMTo:Collins, Elmo; ET02 Hoc; Heard, Robert; Reyes, Debra; LIA02 Hoc; LIA03 Hoc; CSCCc:Turner, Joseph; Sullivan, Allen; Brusoe, Eric; Hincke, John; Bissett, RyanSubject:Re: Op Center - Laptop

Mr. Collins,

No problem. If you and the Ops Ctr are OK with that I'm fine with it. Please hold-on to AT&T device as a backup. If you continue to have problems then let us know and we can make the switch.

Thanks, Bill

Sent from an NRC Blackberry William Padilla

From: Collins, Elmo To: Padilla, William; ET02 Hoc; Heard, Robert; Reyes, Debra; LIA02 Hoc; LIA03 Hoc; CSC Cc: Turner, Joseph; Sullivan, Allen; Brusoe, Eric; Hincke, John; Bissett, Ryan Sent: Thu Mar 31 17:46:30 2011 Subject: RE: Op Center - Laptop

Bill

It appears that the issues with my Region IV device have been resolved and I am receiving e-mail. I'd like to continue to use my Region IV device. If possible, we can cancel this request. Please inform.

Elmo

From: Padilla, William
Sent: Thursday, March 31, 2011 5:38 PM
To: ET02 Hoc; Heard, Robert; Reyes, Debra; LIA02 Hoc; LIA03 Hoc; CSC
Cc: Turner, Joseph; Sullivan, Allen; Brusoe, Eric; Hincke, John; Bissett, Ryan; Collins, Elmo
Subject: Re: Op Center - Laptop

CSC,

This change needs to made on the BES using ticket #509379. Per Ops Ctr, this needs to be done ASAP.

Ops Ctr, I have Cc'd Mr. Collins so that he is aware that his existing device will lose e-mail connectivity once this change occurs.

Regards, Bill From: ET02 Hoc
To: Heard, Robert; Reyes, Debra; LIA02 Hoc; LIA03 Hoc
Cc: Turner, Joseph; Sullivan, Allen; Brusoe, Eric; Hincke, John; Bissett, Ryan; Padilla, William
Sent: Thu Mar 31 17:05:31 2011
Subject: RE: Op Center - Laptop

Bill Cook is returning from Japan - we need to switch his blackberry to Elmo Collins

From: Heard, Robert
Sent: Thursday, March 31, 2011 4:11 PM
To: ET02 Hoc; Reyes, Debra; LIA02 Hoc; LIA03 Hoc
Cc: Turner, Joseph; Sullivan, Allen; Brusoe, Eric; Hincke, John; Bissett, Ryan; Padilla, William
Subject: RE: Op Center - Laptop

All:

I have updated the helpdesk ticket with the latest information from the operations center on this device swap.

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Same and the second

According to the OIP staff here in the Ops Center, they are not sure if Todd Jackson has left Japan or is planning to leave. They have sent him an e-mail trying to confirm this so we shouldn't move blackberries until we receive confirmation on their status. We'll let you know when we know. Thanks...karen "

I have annotated in the ticket that the device should not be swapped until we get word from the ops center.

Rob

From: ET02 Hoc

Sent: Wednesday, March 30, 2011 9:40 PM
To: Reyes, Debra; LIA02 Hoc; LIA03 Hoc
Cc: Turner, Joseph; Sullivan, Allen; Brusoe, Eric; Heard, Robert; Hincke, John; Bissett, Ryan
Subject: RE: Op Center - Laptop

All,

William Cook will be leaving his BlackBerry with Elmo Collins. A ticket has been created for this transfer #509379. Elmo brought a Region IV laptop with him. I have recommended that Dan Dorman leave his laptop in Japan, just in case Elmo or another member of the team need it. Cris Brown

From: Reves, Debra

Sent: Tuesday, March 29, 2011 2:27 PM To: ET02 Hoc; LIA02 Hoc; LIA03 Hoc Cc: Turner, Joseph; Sullivan, Allen; Brusoe, Eric; Heard, Robert; Hincke, John; Bissett, Ryan; Reyes, Debra Subject: Op Center - Laptop

Good afternoon,

The attached list of OIS provided international laptops has been updated. The first five of the eleven on this list have not been configured with the generic encryption software password that is requested upon initial power

on. The remaining six have been configured with the generic password, so that any user can login with the generic user id and password (instructions are attached). However, to login into Citrix you will need to login using your NRC user id and password (which authenticates users to the secure NRC network).

Please note that the generic login will not work on laptops provided by the Regions or Program Offices. All future international laptops issued by OIS will be configured with the generic login, so that the

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Also attached are instructions for importing Citrix certificates and the mobile broadband card user guide:

(1) Japan Project Loaner Laptop Guide User Reference Guide

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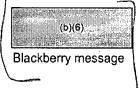
(2) How to Import MPKI (Citrix) Certificates for the Japan Project

(3) Verizon Mobile Broadband Card User Guide for the Japan Project

From: Sent: To: Subject: LIA02 Hoc Thursday, March 31, 2011 6:06 PM LIA03 Hoc FW: Contact info for travel to Japan

From: Larson, Emily Sent: Thursday, March 31, 2011 4:41 PM To: LIA02 Hoc Subject: FW: Contact info for travel to Japan

From: Hay, Michael Sent: Thursday, March 31, 2011 3:21 PM To: Larson, Emily Subject: Re: Contact info for travel to Japan



From: Larson, Emily To: Hay, Michael Sent: Thu Mar 31 15:05:29 2011 Subject: Contact info for travel to Japan

Hello,

Could you provide me with your emergency contact person and phone number information for your time in Japan?

Thank you,

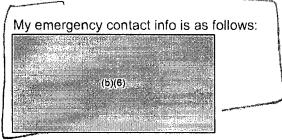
Emily Larson International Relations Assistant Office of International Programs 301-415-2336 <u>emily.larson@nrc.gov</u>

From:
Sent:
To:
Subject:

LIA02 Hoc Thursday, March 31, 2011 6:07 PM LIA03 Hoc FW: Contact info for travel to Japan

From: Call, Michel Sent: Thursday, March 31, 2011 4:34 PM To: Larson, Emily; LIA02 Hoc Subject: RE: Contact info for travel to Japan

Emily and Lauren,



Thanks. Mike

From: Larson, Emily Sent: Thursday, March 31, 2011 3:05 PM To: Call, Michel Subject: Contact info for travel to Japan Importance: High

Hello,

Could you provide me with your emergency contact person and phone number information for your time in Japan?

Thank you,

Emily Larson International Relations Assistant Office of International Programs 301-415-2336 <u>emily.larson@nrc.gov</u> 1. Marchalan

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Taylor, Robert Thursday, March 31, 2011 7:36 PM RST01 Hoc FW: Normal Dry Well and Torus Rad Levels

Follow Up Flag: Flag Status: Follow up Flagged

RST,

From:

Sent:

To: Subject:

Could someone back home give us typical numbers so we can answer USFJ's question?

Thanks,

Rob

-----Original Message-----

From: Aviles, Armando LT USN [mailto: Sent: Thursday, March 31, 2011 7:24 PM To: Taylor, Robert Cc: Mercer, Robert LCDR USN USFJ J3; Young, Samuel E LCDR USN SJFHQ; Fallon, Russell J CDR USN USFJ Det 105 Subject: Normal Dry Well and Torus Rad Levels

Mr. Taylor,

Per our conversation this morning, we (USFJ - Reactor Assessment Team) are trying to get a feel for what normal expected Ranges for Rad levels in the Dry Well and Torus should be during Normal 100% Power Operations and Shutdown Conditions (immediately and 1 week after shutdown).

Can you please provide some numbers for our reference? I realize these numbers may vary from BWR to BWR, and power history and where and how the readings are taken, but assume the conditions that would most likely apply for the Fukushima plants.

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Thank you for your help and assistance in advance.

LT Armando Aviles USFJ CAT RCMT - Reactor Assessment Group DSN: ((b)(6)

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From: Sent: To: Subject: Attachments:

ET02 Hoc Thursday, March 31, 2011 10:21 PM ET07 Hoc FW: Rev 21 of the Reoccurring Daily Actions and Calls List Reoccurring Daily Actions and Calls Rev 21.docx

From: ET01 Hoc Sent: Thursday, March 31, 2011 10:20:53 PM To: ET02 Hoc Subject: FW: Rev 21 of the Reoccurring Daily Actions and Calls List Auto forwarded by a Rule

From: LIA08 Hoc Sent: Thursday, March 31, 2011 10:20:50 PM To: LIA01 Hoc; LIA02 Hoc; LIA04 Hoc; LIA06 Hoc; RST01 Hoc; Hoc, PMT12; ET05 Hoc; ET01 Hoc; LIA07 Hoc Subject: Rev 21 of the Reoccurring Daily Actions and Calls List Auto forwarded by a Rule

Please use the attached Revision 21 of the subject list and DESTROY other earlier copies. The list has been modified to add a 1700 call with the PACOM J2 staff and our RST, and to eliminate a 2130 call with the Department of State, which we believe has been cancelled as the DOS is no longer staffing their Japan Task Force.

Please let me know if any other changes should be made to the subject list.

Jeff Temple LT Coordinator

Reoccurring Daily Actions and Calls

-Time (EDT)	Description	Lead Team	Action/Purpose of the Call
0230	Input for SIT REP	All Team Directors	Submit input to EBT Coordinator
0300	RST/PMT call with Japan Team	RST/PMT (arranged by the HOO) (b)(6)	Daily update for Site Team and HQ (convenient time for the Site Team)
0430	Status update & 2 pager/Sit Rep (BRIEFING ONLY-not a call)	All Team Directors	Provide input to EBT Coordinator for development of Agency briefing documents
0600	One Pager	ET, Response Advisor	Provide input to EBT Coordinator
0600	Congressional Update		Taken From Status Update
0715	Chairman's Brief	ET	Update chairman and staff during turnover
<u> </u>	Deputy Secretaries (as scheduled)	ET	White House lead (-Chairman participates) -Interagency discussion
0900	RST Status Call with INPO	RST	Update status of Reactors and SFPs
0930	UK/Canada/France Call	RST/PMT * * (arranged by HOO)	Information Exchange. Focused on Operational issues (Combining PMT call from 1400 for Dose issues. Starting 3/28)
1000 (formerly conducted at 715 and 8 pm	TAs & CAs briefing	ET ** (arranged by HOO) (b)(6)	ET Director lead -briefed Commission TAs and ODs
1100 M/W/F	ESF8-(Public Health & Medical Services)	LT (Conference number provided by HHS)	HHS Secretarys Operations Center lead -Interagency discussion NOTE call will be held on M/W/F schedule only – no calls on Tues or Thurs.
1100	Technical Coordination with Industry Consortium	RST (arranged by HOO) (b)(6)	Technical discussion
1100	Radiological Status & Implications Call (new call proposed to start 3/28)	Arranged by NEI	"Radiological Status & Implications" call between NRC, NEI, EPA, DOE, OSTP. NEI or OSTP will set up the bridge line.
1230	NTAG teleconference (chaired by NSS)	PMT Director to lead	Nuclear Technical Advisory Group –email sent out daily with phone # and pass code
1400	USAID Starting 4/5 call will be on Tuesdays only 877.334.8037 Password "JAPAN"	LT/OCA	USAID lead NOTE-this call only on Tues and Thurs now -Interagency discussion: starting 4/5 call will be on Tuesdays only. Federal pre-coordination takes place at 1:45 and then the 2pm call with Congressional staff.
1400	NARAC	PMT * * (arranged by HOO)	DOE lead -Interagency discussion of dose models
1400	Advisory Team	White House/PMT	Call with the White House to help with coordination and

March 31, 2011 2200 hrs

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Reoccurring Daily Actions and Call Rev 21

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Reoccurring Daily Actions and Calls

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			ensure PMT/White House is aware of current information Call: (b)(6); Pin: (b)(6); (b)(6); Pin #: (b)(6);
1500	One Pager	ET, Response Advisor	Provide Input to EBT Coordinator
1500	Congressional call	OCA & NRC Go-To Team (Leeds, M.Johnson, Sherron, B.Boger, etc) (b)(6)	OCA lead -Audience is Congressional staff who have or are near a plant; Oversight committees; House &Senate leadership
1515	Chairman's brief	ET (arranged by HOO)	
1600	Input to Status Update	All Team Directors	Provide input to EBT Coordinator
1700	PACOM J2 call	RST	May not reoccur daily-call done as needed
1700	HHS call with 50 states and federal partners	LT/State Liaison	Meeting occurs each Tuesday and Thursday evening, as organized by HHS (N.Natarajan). HHS provides bridge line day of call
1700	DOE Science Panel	RES	Brian Sheron and Richard Lee, out of the box solutions.
1800	RST/PMT call with Japan Team	RST/PMT (arranged by the HOO) 800-772-3842 (6105)	Daily update for Site Team and HQ (convenient time for the Site Team)
1800	Status update & 2 pager/Sit Rep (BRIEFING ONLY-not a call)	EBT	EBT developed agency briefing documents
1830	Chairman's Call with Chuck Casto	Chairman/Chuck	Brief on status
1900	Call with Vince Holahan PACCOM	PMT	Status of Radiological Conditions Vince Direct Line – 808.477.7360, if no answer 808.477.9286 or SWO 808.477.8173
2000	HHS Call with Pacific	HHS	Meeting occurs each Wed. evening. Call in 888-455-7847, (6)(6) is the passcode. PMT to participate
2000 re- initiated 3/29	Call with Industry Consortium (daily)	ET ***(arranged by HOO) (b)(6)	ET Led High-level discussions with industry and NRC Site Team
2100	PMT call with Japan Team	PMT (arranged by the HOO) (b)(6)	Daily update for Site Team and HQ (convenient time for the Site Team)
2130	DOS	LT ** (arranged by HOO)	DOS lead Interagency discussion
2200	One Pager	ET, Response Advisor	Provide Input to EBT Coordinator
2200	One pager	EBT	Update chairman via email using one-pager

March 31, 2011 2200 hrs

Reoccurring Daily Actions and Call Rev 21

M: LT /Reoccurring Calls Rev 21

Reoccurring Daily Actions and Calls

March 31, 2011 2200 hrs

Reoccurring Daily Actions and Call Rev 21

M: LT /Reoccurring Calls Rev 21

From:	LIA02 Hoc
Sent:	Thursday, March 31, 2011 10:47 PM
То:	LIA02 Hoc; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-
	Tous, Mugeh; 'ShafferMR@state.gov'; Bloom, Steven; Schwartzman, Jennifer; Tobin,
	Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smiroldo, Elizabeth; Young,
	Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche,
	Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; LIA07 Hoc; LIA06 Hoc; LIA08 Hoc;
	Owens, Janice; Fehst, Geraldine; Foggie, Kirk; Breskovic, Clarence
Subject:	RE: OUO - Transition Report for March 31, 2011 - 23:00

TRANSITION REPORT FOR MARCH 31 – 23:00

Mugeh transitioning to Jen

UPDATES DURING SHIFT

- Ralph Way BB status. There is an older open ticket item that says he is having trouble with his BB. On 3/31 emailed Ralph asking if he is still having trouble and ccd Danielle and Eric in case Ralph can't read his email. He responded that his email was working, but not the phone. Forwarded his response to ET02 who emailed back to Ralph (Eric & Danielle) and suggested for him to remove his battery and replace it and check. This solution didn't work. Received an email from Eric that this is not an urgent matter and Ralph can use webmail for now. ACTION: Follow up with ET02 and Ralph again. Please let LT Coordinator know the progress on this ticket item and why it is still open.
- Update Japan Traveler Information Document on LIA03 with 3rd Team info Added the names, available flight and emergency contact info for three of five members of Japan Team#3 to this file. Emailed All to request their international BB #s. Emailed Bernhard, Collins and Salay to request travel info as well as emergency contact info. ACTION: Await for reply emails from all five. Make sure to populate the information in the table on Team#3 in the Document on LIA03.
- Update Japan Traveler Information Document on LIA03 with Return Team info Per request from LT Director please update the traveler table as the original NRC Japan Travel Team members return to U.S. Leave the most recent copy on the cabinet in LIA02 work area. on 3/31 emailed "Liaison Japan" and asked them to notify LIA02 and LIA03 when they arrive in the U.S. Also, added this as an action item to the Return Traveler Checklist. ACTION: Await for reply emails from returned travelers and update the Document on LIA03
- BB/Laptops Requests from 3rd Team Working with 3rd Japan Team to make sure they get their BB and a laptop if requested before they leave. As of 3:00 on 3/31: 1) Call has requested a blackberry, but no laptop. He will pick it up from HQ at 1:00 PM on 4/1; 2) Bernhard has requested a laptop and BB from HQ, even though he is in Region II. IT plans to prepare BB and laptop and overnight them to him on 3/31; 3) Hay is getting his laptop and BB through his region. When I asked him to provide his BB number, he said it would be the same number he has now (b)(6) All travelers before him got new BB numbers when they got their international BB, so please confirm this with him again tomorrow that he is not getting a new BB; 4) Salay TBD when he returns to DC from the Netherlands.
- Updated International Travelers Checklist: Carlotta wanted to add an additional item to the list, that
 travelers need to take International Travel Training before they leave. Carlotta made the change to the
 checklist and sent it back to LIA02 and Charlotte for final approval in an email on 3/31 at 11:29
 am. ACTION: Check with Charlotte and confirm Carlotta's change to the checklist; finalize checklist;
 and send to 3rd Team telling them about the update.

 IAEA Request for Severe Accident Mitigation Guidance for a BWR: We need to track down one of these Guidelines and get permission from the BWR Owner's Group to share it with the IAEA. The LT Director put a call in to John Jolicoeur to see if he could get a POC at the BWR Owner's Group. We are still waiting to hear back from him. ACTION: Follow-up on this on 4/1 if we have not heard back by then.

News Reports on IAEA "Recommendation" to Extend Evacuation Zone: News media is reporting that the IAEA has called on Japan to extend the evacuation zone around Fukushima, based on abnormal levels of radiation detected in a village outside the current evacuation zone. This was not a special announcement nor a formal recommendation from the IAEA. Instead, the reports result from information provided at the March 30 IAEA technical briefing, at which DDG Denis Flory reported on the location of the abnormal radiation levels and noted that they were located outside the evacuation zone. When asked a direct question about whether the IAEA was recommending that Japan extend the zone, DDG Flory stated only that the IAEA was encouraging the "counterpart" to "carefully assess the situation." Full summary of technical briefing here:

http://iaea.org/newscenter/news/tsunamiupdate01.html, relevant paragraph is the fourth paragraph under item #2, "Radiation Monitoring." Jen Schwartzman verified with Mark Shaffer that no formal announcement has come from IAEA in this regard. **Action:** If asked about this by the ET or other NRC management, provide the above information so there is no confusion about IAEA's position.

• Taiwan Conference Call. PMT and RST are available for a 1200 EST one-time conference call with Taiwan, date TBD. The 1500-2300 EST shift on March 31 received a call from Taiwan POC (June-Yuan (JY) Huang, (b)(6)). He said Danielle Emche had offered the conference call (and Danielle's suggestion stems from DOS push). He doesn't see a need for an immediate conference call. He will call again to set up a date. He would like the conference call to start with a briefing on the technical status at Fukushima and then he will ask questions. After he calls with a date please notify/confirm time and date with PMT and RST. Int'l liaison should sit in on the call. Action: Be aware that Mr. Huang will be calling back to set up a specific date. When date is set, please let PMT and RST know that he would like a briefing on the technical status at Fukushima and will have guestions.

• New Travelers to Japan:

- **Contact Valerie Kerben (HQ Security) with all new travelers to Japan.** Her group is responsible for providing clearance info to USAID.
- Four additional technical staff will be sent to support the team in Japan. Mike Salay (RES), Michel Call (NMSS), Mike Hay (RIV), and Rudy Bernhard (RII) to leave the USA on Saturday, April 2. (Salay may leave April 3). A two-week stay is anticipated. Action 1: OIP is to identify an additional staff member to support and provide relief in the near term. Action 2: Request was made to add four new travelers to Liaison Japan alias - follow up to ensure this is done. This is done. Action 3: USAID is collecting passport information, etc. for the travelers. We have requested the "3rd Team" to provide us with all the information requested in the checklist, including full name, passport, banking info, etc. As soon as we receive this info, pass it along immediately to USAID. Status of information received as of 3:00 on 3/31 1)Rudolph Bernhard, COMPLETE; Michel Call, COMPLETE; Michael Hay: Still need Passport & Bank Information, which he says he will provide by the end of the day: Michael Salay: NONE. Michael is on his way back from the Netherlands. He is due to land at 3:00 PM on 3/31. USAID knows this and intends to call him today to get his necessary info. Most likely he will be leaving on Sunday, 4/3/11. Action 4: Populate the international traveler Information document on LIA03 with all new flight information as it comes in from USAID. This is partially done Action 5: Make sure to get 3rd Team emergency contact information before they leave on Saturday and populate it in the same document. We have received this info for two of the 3rd Team travelers and still need three. Initial Phone numbers from the HOO for 3rd Team are on a post-it note above LIA02. These are not their BB – some are office and home numbers. Action 6: Make sure to get their International BB #s before they leave and populate that info in the same document on LIA03. Cited above as well,

- Coordination of IAEA and U.S. Efforts. There is ongoing interest from the ET and other NRC managers regarding the IAEA's role in coordinating, or tracking, assistance requests from Japan and offers from other member states. While the IAEA's Incident and Emergency Centre (IEC) has not agreed to be a formal "clearinghouse" (i.e., actively reaching out to all IAEA member states requesting that all assistance efforts be coordinated through the IEC), they are tracking all offers for assistance via a database that was posted on ENAC last week. For the effort to be effective, they need input from countries, and they do not have anything from the United States. It was our initial understanding that DoD (Navy) is taking a logistical leadership role in coordinating equipment-provision efforts for the USG. However, during the last shift information was received that INPO was taking the lead on equipment issues, and then during this shift information was provided that the State Department had taken a lead role in the "Consortium." The call with Danielle provided some much-needed clarity - she indicated that US Embassy Tokyo had established a tracking system to compile assistance requests from the Japanese and offers from USG entities. INPO had been separately tracking equipment requests (see INPO item below). Danielle reported that the Embassy and INPO tracking had merged, and that the Embassy and NRC Team were developing a standardized form that could be filled out for assistance requests. I inquired as to whether a similar standardized form would be developed for either solicited or unsolicited offers for assistance from USG entities and Danielle indicated she would check. I suggested that, given the concrete actions US Embassy Tokyo is taking, they should take the lead in providing information to IAEA on behalf of the USG. Danielle is going to suggest this and communicate back to us. Action: Wait to hear back from Danielle, then confirm whether or not US Embassy. Tokyo will be communicating with IAEA/IEC. Information can be sent to IEC1@iaea.org with a copy to Mark Shaffer. Provided this to Danielle.
- Deputies Committee Decisions and Action Items: SECY has been sending summaries of the Deputies Committee meetings as they are received and the LT Director/Coordinator have been tracking any actions pertinent to the LT. There are currently no international liaison tasks resulting from these meetings but the LT Director will inform us if this changes. Action: Mark Shaffer would like to see the summaries. We sent him everything we had already received but he would need future summaries beginning with the March 30 meeting.
- Plant Status Updates. James Whitney, NSIR has requested that all of the "Plant Status" news releases on ENAC be sent to him to assist other government agencies in their analysis of the situation. Action: Send james.whitney@nrc.gov."plant status updates" on ENAC as they come in (last one sent during 1500-2300 shift on 3/30).
- Translators. 24/7 translation coverage has been suspended due to both projected decreasing demand and funding issues. Kirk Foggie confirmed that there is only one known NRC employee that speaks Japanese (at the moment) but there is a Japanese foreign assignee and other options available. Also, Tony Nakanishi will be returning from Japan today and may be available to provide translation assistance beginning Monday. Danielle Emche informed us that USAID is paying for an NRC-dedicated translator in Tokyo. If we need items translated and cannot get assistance from within NRC, we can rely on them. Action 1: If in need of USAID translation support, fax the document to +81-3-3224-5538 and send a scanned (PDF) copy to Danielle Emche and Eric Stahl as a backup. Action 2: Inform PMT and RST if a decision is made to resume translation services at NRC.

FUTURE ACTIONS/OPEN ITEMS

- INPO: All equipment requests are now going through INPO. They are consolidating all available information. Contact information for INPO is 770-644-8118 or email at <u>inpoercassistance@inpo.org</u>.
- IAEA All Member States Meeting: Received request from the ET director, Mike Weber to coordinate with Mark Shaffer in Vienna to determine the topic and/or agenda for this meeting, which was called by the DG. The ET would like to know what will be communicated by the DG to member states and what might be asked of member states at this meeting. All known information is publicly available on the IAEA's website (see http://iaea.org/newscenter/news/high_level_conference.html). No further action required.
- Returning Travelers. A request to returned travelers/travelers about to return to confirm their status, and to provide them with updated returned traveler checklist. Action: Update list as travelers respond. The IT Group in the Ops Center needs this information asap. When the Site Team wakes up in Japan, please

send them a reminder email to send us their return info asap. Once we get this, inform the IT team. Additionally, update the Japanese Traveler Document on LIA03. Try to get this updated soon.

• NRC Health Unit request: The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there still exists a possibility that KI could be required at some point. Should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.

- Request for meteorological data. PMT notified LIA02/03 of their need for meteorological data. Action: If you receive meteorological communications which do not already have PMT on distribution, please ensure PMT is ccied on the email (send to PMT02 and PMT12) and walk a hard copy back to the meteorologists.
- Japan Relief Team Dosimetry. LIA03 sent an email to LiasonJapan (original team) asking for them to
 email back their dosimetry numbers. If dosimeter numbers (on the back) are received directly to the
 international liaison desks they should be forwarded to John O'Donnell and entered into a word document
 on LIA03.
- Daily calls with UK/France/Canada. Calls will take place at 0930 with RST and PMT to discuss reactorrelated and radiation-related information, respectively, with regulatory representatives from these three countries. Everyone should call into the HOO to be connected. The new number to call into is ((b)(6))
 ((b)(6)) and the pin is ((b)(6))
- Daily NRC Japan Team RST/PMT Call. The time of the call varies. As of 3/31 it was 1800 with RST and PMT have been notified of the call and international liaison should plan on participating (OIP staff in Japan don't necessarily participate). All parties should call into 301-816-5120 and use pass-code ((b)(6))

DAILY ACTIONS/REMINDERS

- International updates must be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 11 PM 7 AM shift is responsible for the summary call with Danielle and Eric, scheduled daily at 0500 EST unless rescheduled, and subsequent write-up of one-pager for Margie. Margie reminds us that the write-up should not contain technical details, which are already captured in other reports, and should be marked "Official Use Only Foreign Government Information."
- The 11pm-7am shift is responsible for sending all emails from the previous day to the FOIA email address. Open new email, copy previous day's emails as an attachment and send to <u>FOIA</u> <u>Response.hoc@nrc.gov</u>.
- The international team should sit in on calls with the ET and team leader (Chuck or Dan) to take notes and provide a short summary of what was discussed via email to OIP reps on Japan Team.
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have an international call.
- Reminder to Keep Mark Shaffer in-the-loop at <u>shaffermr@state.gov</u>, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.
- Request from RST and PMT to keep them updated on who is currently in Japan on NRC team.
- Please make sure to keep the NRC Japan travelers list updated (check the last updated date) and post a new copy on LIA02 cabinet as changes occur.
- Sanitary wipes now available. Action: Please wipe the keyboards, mice and phones before you leave.

4

OFFICIAL USE ONLY

From: Sent: To: Subject:

Friday, April 01, 2011 8:20 AM RMTPACTSU_ELNRC; LIA03 Hoc RE: eCC - [INFO ONLY, NO ACTION] - Itinerary #631094/Bernhard(+)REQUEST GRANTED, ARRIVAL: 4/3/2011

Joe,

The information we have for the 1st NRC team is as follows:

LIA02 Hoc

Trapp – returned to US Ulses – returned to US Casto – staying on in Japan Nakanishi – departing Japan 4/1 Monninger – departing Japan 4/7 Kolb – returned to US Foster -- returned to US Cook – departing Japan 4/1 Devercelly – returned to US

Let me know if you have additional questions.

Cheers,

Karen

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov] Sent: Friday, April 01, 2011 8:03 AM To: LIA03 Hoc; LIA02 Hoc Subject: RE; eCC - [INFO ONLY, NO ACTION] - Itinerary #631094/Bernhard(+)REQUEST GRANTED, ARRIVAL: 4/3/2011

I saw this e-mail in USAID NRC Liaison inbox but received no turn over if action was due. I can follow up on this, but can anyone tell me when the following NRC personnel from 1st Team are planning to depart Japan?

Joe Anderson NRC Liaison to USAID (b)(6)

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov] Sent: Thursday, March 31, 2011 9:47 PM To: RMTPACTSU_ELNRC; LIA02 Hoc Subject: RE: eCC - [INFO ONLY, NO ACTION] - Itinerary #631094/Bernhard(+)REQUEST GRANTED, ARRIVAL: 4/3/2011

Thanks. Do you have the return information on the first NRC team? Please see below for names:

Jim Trapp		
Chief.		

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Tony Ulses Chief, Reactor Systems Branch

Chuck Casto Will remain in Japan Deputy Regional Administrator, Region II Executive Level – Team Lead Interface with the Ambassador, military, Japan cabinet and regulators

John Monninger Deputy Chief-of-Staff, Office of the Chairman

Tony Nakanishi Reactor Systems Engineer, Reactor Systems Branch

Tim Kolb Senior Reactor Engineer, Operator Licensing and Training Branch

Jack Foster Chief, Licensing Branch (FSME)

Bill Cook Senior Reactor Analyst

Richard Devercelly Reactor Technology Instructor, Technical Training Center

From: RMTPACTSU_ELNRC [mailto:RMTPACTSU_ELNRC@ofda.gov] Sent: Thursday, March 31, 2011 9:33 PM To: LIA02 Hoc; LIA03 Hoc Subject: FW: eCC - [INFO ONLY, NO ACTION] - Itinerary #631094/Bernhard(+) REQUEST GRANTED, ARRIVAL: 4/3/2011

FYI

From: ecc@state.gov [mailto:ecc@state.gov] Sent: Thursday, March 31, 2011 9:21 PM To: RMTPACTSU_ELNRC Subject: eCC - [INFO ONLY, NO ACTION] - Itinerary #631094/Bernhard(+) REQUEST GRANTED, ARRIVAL: 4/3/2011

Request Summary

Itinerary #:631094

Date Requested:3/31/2011

Request Summary

	Travel Itin	erary		
Destination Country	Destination Cities	Start Date	End Date	Status
JAPAN	Токуо	4/3/2011	4/16/2011	APPROVED

•	
Travelers	
Name: Rudolph H Bernhard Contact Info: (b)(6) Country of Birth: USA Emergency Contact: (b)(6) Clearance: (b)(6) Clearance Verification Additional Info:	Agency: Nuclear Regulatory Commission Employment Type: Direct Hire Passport Type: Personal Passport #: (b)(6) Passport Country: USA
Name: Michel A Call Contact Info ((b)(6)) michel.call@nrc.gov Country of Birth: USA Emergency Contact: (b)(6) (b)(6) Clearance: (b)(6) Clearance Verification: (b)(6) Additional Info:	Agency: Nuclear Regulatory Commission Employment Type: Direct Hire Passport Type: Personal Passport #: (5)(6) Passport Country: USA
Name: Michael C Hay Contact Info (b)(6) Country of Birth: USA Emergency Contact: (b)(6) Clearance: (b)(6) Clearance Verification: Clearance Verification: Clearance Verification: Clearance Verification: Mone	Agency: Nuclear Regulatory Commission Employment Type: Direct Hire Passport Type: Personal Passport #: (6)(6) Passport Country: USA

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Carrier Information					
Carrier and #	Mode	Departure Point	Departure Date/Time	Arrival Point	Arrival Date/Time
American Airline 61		тх	ורועו	Токуо, Japan	4/3/2011 4:00:00 PM
United Airline 803	Air	Washington Dulles, DC	4/2/2011 12:21:00 PM	Tokyo, Japan	4/3/2011 3:10:00 PM
American Airline 61	Air	Dallas/Fort Worth, TX	4/2/2011 12:35:00 PM	Washington Dulles, DC	4/3/2011 4:00:00 PM

Request Details

JAPAN

Clearance From	Agency/Section/Other	Arrival Date	Departure Date 4/16/2011	Status
JAPAN/TOKYO	USAID	4/3/2011		APPROVED
Post Destination Cities VIP Visit? No Purpose of VisitSe the Disaster Assista	Sections to be Informed Section Tokyo erve as NRC Specialists for ance Response Team from foreign Disaster Assistance	POC at post Access to P Fiscal Data: Other Comm Hotel Reser make hotel re Airport Assi Accompany Appointmen	uilding Required? Natalya Johnson, J CC Required? No None nents/Remarks: No vations? Yes; USA	Yes ohn Beed <i>ne</i> D DART to

Hotel Accommodations					
Hotel Name	Street Address	City	Rate	Local Telephone #	Confirmation #
	(b)(6)		Yen19500.00	(b)(6)	

Control Officer: John A. Beed Post: TOKYO	
Email: BeedJA@state.gov	
Phone: (b)(6)	
Airport Assistance	
/ Transportation:	
Appointment	
Request:	
Expediter:	
Other Provided	
Assistance:	
Comments:	
· · · · · ·	

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List of recipients:

[ACTION]-REQUEST APPROVER: yamakirx@state.gov beedja@state.gov [INFO]-COUNTRY DESK: williamsge@state.gov kelleyk@state.gov [INFO]-GROUP CC: miyajimacx@state.gov horowitzpd@state.gov vizcarrajk@state.gov

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* <u>katagirinx@state.gov</u> <u>bergermc@state.gov</u> [INFO]-REQUESTOR CC: <u>rmtpactsu_crc@ofda.gov</u> <u>travel@ofda.gov</u> <u>rmtpactsu_elnrc@ofda.gov</u> <u>rmtpactsu_ac@ofda.gov</u> <u>njohnson@ofda.gov</u>

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From: Sent: To: Subject: ET07 Hoc Friday, April 01, 2011 10:08 AM Vavoso, Thomas G CIV NAVSEA, 08 RE: DASD report

I'll give it a try. But if I get the same person I spoke with earlier I am not convinced it will help - I had to take some time to explain to her that the U.S. Nuclear Regulatory Commission was a part of the US Federal Government. She would not even transfer me to someone else...

-----Original Message-----From: Vavoso, Thomas G CIV NAVSEA, 08 [mailto: Sent: Friday, April 01, 2011 10:05 AM To: ET07 Hoc Subject: RE: DASD report

I suggest you call his office expressing more urgency. I.e., How do I get a message to him now and that it relates to the subject of a principals meeting today on Japan. They must have a means of getting a hold of him 24x7.

----Original Message----From: ET07 Hoc [mailto:ET07.Hoc@nrc.gov] Sent: Friday, April 01, 2011 9:55 AM To: Vavoso, Thomas G CIV NAVSEA, 08 Subject: RE: DASD report

I got a call from someone whose name I didn't catch from your organization who gave me his cell # and his secretary's number. I left a voice mail on his cell and a note with whomever answered his secretary's line, but that person only said she'd "pass the message to someone". She did say he was on "official travel" and I let her know that our interest was in relation to that. I did not get the feeling that she really understood that this is a time sensitive issue and really does relate to Mr. Shaffer's current work.

Original Message	 ~)
From: Vavoso, Thomas G CIV NAVSEA, 08 [mailto:	1
Sent: Friday, April 01, 2011 9:48 AM	
To: ET07 Hoc	 ••••
Subject: RE: DASD report	

I will look further. Have you sent an email letting him know you are trying to contact him? Do you know from your Japan team whether he is still in Japan?

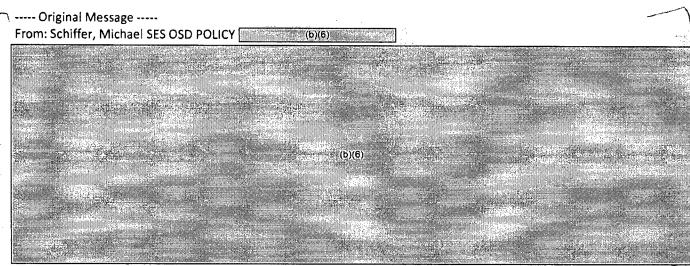
-----Original Message-----From: ET07 Hoc [mailto:ET07.Hoc@nrc.gov] Sent: Friday, April 01, 2011 9:41 AM To: Vavoso, Thomas G CIV NAVSEA, 08 Subject: RE: DASD report

Tom:

We have tried to contact Mr. Schiffer but are unable to get an answer on his cell phone and left a message with his office. Please let me know if you know of an alternate means to contact Mr. Schiffer.

Jane Marshall Status Officer, USNRC Incident Response

-----Original Message-----From: Vavoso, Thomas G CIV NAVSEA, 08 [mailto: Sent: Friday, April 01, 2011 7:28 AM To: ET07 Hoc Subject: DASD report



Sent: Fri Apr 01 04:25:42 2011 Subject: Japan Nuclear Update

Michele, all,

Huddled with the NRC-headed nuclear team based at the Embassy this afternoon to get an assessment from the folks working this in the field about where we are, and where we are going. Their bottom line assessments are:

- The "domino theory" (the plausible hypothetical worst case) is not any longer credibly possible; it is highly unlikely to happen. (They said, in essence, that we had that situation a couple of weeks ago...and it didn't happen. Since then things have progressed such that the fission geometry no longer exists for the hypothetical bounding case to be able happen.)

- Not that we are out of the woods, but the situation is getting safer every day. It is "static", if not necessarily "stable". (That takes nothing away from the challenges created by the radioactive leaks of the past few weeks, or the contaminated water and ground at the plant or immediate surrounding area.)

- Even if the worst happens - which as per above they don't view as a credible possibility any more - sheltering in place for Tokyo and area (including Yokosuka) for a couple of days "maximum" is recommended COA.

- TEPCO and GoJ made a decision not to flood the reactors, which was the NRC recommendation, (in part because they were concerned with a "CNN moment" (pressure might build during the flood and there would be a visible vent), but they appear to be managing things and are on a good glide-path. Not as ideal as if they had flooded, but "they [TEPCO] might be right".

- Leading indicator if things get out of control will be an increase in pressure and the vessel temperature going up at Unit 1 from the current 150-200 back to 700+. But if that happens there will be lead time (and cascade unlikely).

- Their "realistic pessimistic case" is that we continue with the current slow bleed, which means the 50 mile remains in place but no danger to Tokyo, Yokoskuka, and the like. Things will keep looking like they do now until a structure can be built over the plant to confine it.

- Modelers from Sandia who arrived today are running code to see if they can make a determination about when we will reach a "point of little concern".

Lots more detail which I will spare you, but the above is the relevant assessment which may prove useful for SD for the PC discussion. Please let me know if you need anything else or have any questions for me to put to the team here in Tokyo.

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Michael

From: Sent: To: Subject:

Mamish, Nader Friday, April 01, 2011 10:21 AM LIA03 Hoc RE: Were you aware of this and what is OIP's guidance?

Great - thanks.

From: LIA03 Hoc
Sent: Friday, April 01, 2011 10:16 AM
To: Mamish, Nader
Cc: Abrams, Charlotte; Schwartzman, Jennifer
Subject: RE: Were you aware of this and what is OIP's guidance?

I checked with Jen, who filled me in. Apparently this item has been approved, and is moving along. See from below transition report to night shift last night. Jen was just updating the ET status report to reflect this approved action.

• Taiwan Conference Call. PMT and RST are available for a 1200 EST one-time conference call with Taiwan, date TBD. The 1500-2300 EST shift on March 31 received a call from Taiwan POC (June-Yuan (JY) Huang, (b)(6)). He said Danielle Emche had offered the conference call (and Danielle's suggestion stems from DOS push). He doesn't see a need for an immediate conference call. He will call again to set up a date. He would like the conference call to start with a briefing on the technical status at Fukushima and then he will ask questions. After he calls with a date please notify/confirm time and date with PMT and RST. Int'l liaison should sit in on the call. Action: Be aware that Mr. Huang will be calling back to set up a specific date. When date is set, please let PMT and RST know that he would like a briefing on the technical status at Fukushima and will have questions.

Cheers,

Karen

From: Mamish, Nader **Sent:** Friday, April 01, 2011 8:58 AM **To:** LIA03 Hoc; Doane, Margaret; Abrams, Charlotte **Subject:** RE: Were you aware of this and what is OIP's guidance?

Thanks for following up on the item. Please feel free to call for needed guidance after you get the details.

From: LIA03 Hoc Sent: Friday, April 01, 2011 8:49 AM To: Doane, Margaret; Mamish, Nader; Abrams, Charlotte Subject: Were you aware of this and what is OIP's guidance?

From today's Ops Center Situation Report:

The NRC RST and PMT will have a call with Taiwan early next week to discuss current status and source term issues.

Guidance from OIP management would be appreciated. Am not sure who generated the item, am checking here.

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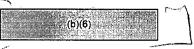
From: Sent: To: Subject: ET07 Hoc Friday, April 01, 2011 10:27 AM Vavoso, Thomas G CIV NAVSEA, 08 RE: DASD report

Thanks.

-----Original Message-----From: Vavoso, Thomas G CIV NAVSEA, 08 [mailto: Sent: Friday, April 01, 2011 10:26 AM To: ET07 Hoc Subject: RE: DASD report

Contact info:

Under Secretary of Defense (Policy) Ms. Flournoy (USDP):



1 or 2 notches up the org chart from Mr. Schiffer.

-----Original Message-----From: ET07 Hoc [mailto:ET07.Hoc@nrc.gov] Sent: Friday, April 01, 2011 10:09 AM To: Vavoso, Thomas G CIV NAVSEA, 08 Subject: RE: DASD report

Ok - good thought. I'd rather avoid surprises at the 11:45 for those folks...

-----Original Message-----From: Vavoso, Thomas G CIV NAVSEA, 08 [mailto Sent: Friday, April 01, 2011 10:08 AM To: ET07 Hoc Subject: RE: DASD report

Another approach is to go to Michelle Flournoy, who Schiffer appears to be reporting to in the email.

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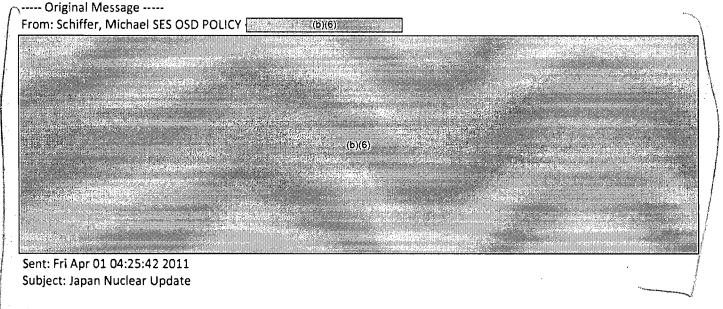
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Michael

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 From: Schiffer, Michael SES OSD POLICY <</td>
 (b)(6)

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Sent: Fri Apr 01 04:25:42 2011 Sübject: Japan Nuclear Update

----- Original Message -----

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Michael

From: Sent: To: Subject: LIA05 Hoc Friday, April 01, 2011 3:08 PM FOIA Response.hoc Resource FW: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Bonnie Sheffield Dayshift 0700-1500 Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

*******FOR OFFICIAL-USE ON**LY***** DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY

From: Nash Jr, Harry W [mailto:Harry.NashJr@dhs.gov] Sent: Thursday, March 31, 2011 3:29 PM To: LIA05 Hoc Subject: Re: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Bonnie said she would cover for me since I am currently out of town. Whomever covers for me, I will cover for them upon my return.

Harry

From: prvs=064dea3aa=LIA05.Hoc@nrc.gov <prvs=064dea3aa=LIA05.Hoc@nrc.gov>
To: Nash Jr, Harry W <Harry.NashJr@dhs.gov>; larry.broockerd@dhs.gov <Larry.Broockerd@dhs.gov>
Cc: Dan Feighert <dan.feighert@dhs.gov>; Andrew Seward <Andrew.Seward1@dhs.gov>; Harry Sherwood
<harry.sherwood@dhs.gov>; John Simpson <john.simpson@dhs.gov>; Lisa Hamilton <Lisa.Hamilton@dhs.gov>;
Micheile Ralston <Michelle.Ralston@dhs.gov>; Rebecca Fontenot <Rebecca.Fontenot@dhs.gov>; Steve Horwitz
<steve.horwitz@dhs.gov>; Tim Greten <Timothy.Greten@dhs.gov>; Vanessa E. Quinn <Vanessa.Quinn@dhs.gov>
Sent: Thu Mar 31 15:20:00 2011

Subject: RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Gentlemen,

Did you find someone to cover your assignments on Saturday?

Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: Nash Jr, Harry W [mailto:Harry.NashJr@dhs.gov] Sent: Tuesdaý, March 29, 2011 10:13 PM To: LIA05 Hoc Subject: Re: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Ken,

I do not understand why in the world they would put me on the schedule the day after I come back from training in Florida.

I will see if someone can cover for me until Tuesday then I will cover for them.

Harry

From: prvs=063b80882=LIA05.Hoc@nrc.gov <prvs=063b80882=LIA05.Hoc@nrc.gov> To: larry.broockerd@dhs.gov <Larry.Broockerd@dhs.gov>; harry.nashjr@dhs.gov <Harry.NashJr@dhs.gov> Sent: Tue Mar 29 20:47:34 2011

Subject: FW: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Gentlemen,

I just want to make sure you know about this schedule.

Ken Wierman Nightshift 1500-2300 FEMA REP Liaison NRC Operations Center (301) 816-5187

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From: Mingledolph, Juvart [mailto:]uvart.Mingledolph@dhs.gov]
Sent: Friday, March 25, 2011 7:20 PM
To: THD-Employees; LIA05 Hoc
Subject: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)
Importance: High

All

Attached Is the Daily Rosters for the FEMA Technological Hazards Division Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011). If you have any questions for FEMA-THD-JE Team regarding the Japan Earthquake, please contact the assigned Action Officer and Team Leads.

Thank You

Juvart T .Mingledolph II

Lead Program Specialist Professional Continuity Practitioner Business Operations Branch Technological Hazards Division National Preparedness Directorate Federal Emergency Management Agency US Department of Homeland Security

Office: 202-212-2332 Mobile: (b)(6) Email: juvart.mingledolph@dhs.gov

"Moving At The Speed Of Business"

From:	LIA02 Hoc
Sent:	Friday, April 01, 2011 3:10 PM
То:	LIA02 Hoc; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar- Tous, Mugeh; 'ShafferMR@state.gov'; Bloom, Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smiroldo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens, Janice; Fehst, Geraldine;
	Foggie, Kirk; Breskovic, Clarence
Subject:	OUO - Transition Report for April 1, 2011 - 1500

TRANSITION REPORT FOR APRIL 1 – 1500

Karen/Jenny transitioning to Gerri

UPDATES DURING SHIFT

- New Travelers to Japan. All travelers have been cleared through USAID and have completed their travel checklist (including Blackberry, laptop, KI and dosimetry pickup). The list of travelers has been populated and resides on the M drive in the LT folder, it has been sent to the Japan Team and OST02. No further action.
- Update Japan Traveler Information Document on LIA03 with Return Team info Per request from LT Director please update the traveler table as the original NRC Japan Travel Team members return to U.S. Leave the most recent copy on the cabinet in LIA02 work area. on 3/31 emailed "Liaison Japan" and asked them to notify LIA02 and LIA03 when they arrive in the U.S. Also, added this as an action item to the Return Traveler Checklist. **ACTION:** Await for reply emails from returned travelers and update the Document on LIA03.
- IAEA Request for Severe Accident Mitigation Guidance for a BWR: We need to track down one of these Guidelines and get permission from the BWR Owner's Group to share it with the IAEA. The LT Director put a call in to John Jolicoeur to see if he could get a POC at the BWR Owner's Group. We are still waiting to hear back from him. ACTION: John out of the office 4/1, follow-up on this on 4/4 if we have not heard back by then.
- Coordination of IAEA and U.S. Efforts. While the IAEA's Incident and Emergency Centre (IEC) has not agreed to be a formal "clearinghouse" (i.e., actively reaching out to all IAEA member states requesting that all assistance efforts be coordinated through the IEC), they are tracking all offers for assistance via a database that was posted on ENAC last week. For the effort to be effective, they need input from countries, and they do not have anything from the United States. It was our initial understanding that DoD (Navy) is taking a logistical leadership role in coordinating equipment-provision efforts for the USG. However, INPO has taken the lead on equipment issues although the State Department had taken a lead role in the "Consortium." US Embassy Tokyo had established a tracking system to compile assistance requests from the Japanese and offers from USG entities. INPO had been separately tracking equipment requests (see INPO item below). The Embassy and INPO tracking have been merged, and the Embassy and NRC Team are developing a standardized form that could be filled out for assistance requests. Danielle is checking to see if a standardized form will be developed for solicited or unsolicited offers for assistance from USG entities. Given the concrete actions US Embassy Tokyo is taking, they should take the lead in providing information to IAEA on behalf of the USG. Danielle indicates that Embassy Tokyo is in the process of verifying with State HQ that they can take the lead on this. Action: Wait to hear back from Danielle, then confirm whether or not US Embassy Tokyo will be
- this. Action: Wait to hear back from Danielle, then confirm whether or not US Embassy Tokyo will be communicating with IAEA/IEC: Information can be sent to IEC1@iaea.org with a copy to Mark Shaffer.
- Updated International Travelers Checklist: Carlotta wanted to add an additional item to the list, that travelers need to take International Travel Training before they leave. Carlotta made the change to the checklist and sent it back to LIA02 and Charlotte for final approval in an email on 3/31 at 11:29 am. Checklist finalized and sent. No further action.

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FUTURE ACTIONS/OPEN ITEMS

- News Reports on IAEA "Recommendation" to Extend Evacuation Zone: News media is reporting that the IAEA has called on Japan to extend the evacuation zone around Fukushima, based on abnormal levels of radiation detected in a village outside the current evacuation zone. This was not a special announcement nor a formal recommendation from the IAEA. Instead, the reports result from information provided at the March 30 IAEA technical briefing, at which DDG Denis Flory reported on the location of the abnormal radiation levels and noted that they were located outside the evacuation zone. When asked a direct question about whether the IAEA was recommending that Japan extend the zone, DDG Flory stated only that the IAEA was encouraging the "counterpart" to "carefully assess the situation." Full summary of technical briefing here: http://iaea.org/newscenter/news/tsunamiupdate01.html, relevant paragraph is the fourth paragraph under item #2, "Radiation Monitoring." Jen Schwartzman verified with Mark Shaffer that no formal announcement has come from IAEA in this regard. Action: If asked about this by the ET or other NRC management, provide the above information so there is no confusion about IAEA's position.
- Taiwan Conference Call. PMT and RST are available for a 1200 EST one-time conference call with Taiwan, date TBD. The 1500-2300 EST shift on March 31 received a call from Taiwan POC (June-Yuan (JY) Huang, (b)(6)). He said Danielle Emche had offered the conference call (and Danielle's suggestion stems from DOS push). He doesn't see a need for an immediate conference call. He will call again to set up a date. He would like the conference call to start with a briefing on the technical status at Fukushima and then he will ask questions. After he calls with a date please notify/confirm time and date with PMT and RST. Int'l liaison should sit in on the call. Action: Be aware that Mr. Huang will be calling back to set up a specific date. When date is set, please let PMT and RST know that he would like a briefing on the technical status at Fukushima and will have questions.

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- Deputies Committee Decisions and Action Items: SECY has been sending summaries of the Deputies Committee meetings as they are received and the LT Director/Coordinator have been tracking any actions pertinent to the LT. There are currently no international liaison tasks resulting from these meetings but the LT Director will inform us if this changes. Action: Mark Shaffer would like to see the summaries. We sent him everything we had already received but he would need future summaries beginning with the March 30 meeting.
- Plant Status Updates. James Whitney, NSIR has requested that all of the "Plant Status" news releases on ENAC be sent to him to assist other government agencies in their analysis of the situation. Action: Send james.whitney@nrc:gov "plant status updates" on ENAC as they come in (last one sent during 1500-2300 shift on 3/30).
- Translators. 24/7 translation coverage has been suspended due to both projected decreasing demand and funding issues. Kirk Foggie confirmed that there is only one known NRC employee that speaks Japanese (at the moment) but there is a Japanese foreign assignee and other options available. Also, Tony Nakanishi will be returning from Japan today and may be available to provide translation assistance beginning Monday. Danielle Emche informed us that USAID is paying for an NRC-dedicated translator in Tokyo. If we need items translated and cannot get assistance from within NRC, we can rely on them. Action 1: If in need of USAID translation support, fax the document to +81-3-3224-5538 and send a scanned (PDF) copy to Danielle Emche and Eric Stahl as a backup. Action 2: Inform PMT and RST if a decision is made to resume translation services at NRC.
- Announcement of French nuclear safety meeting in May: Reuters is reporting that Sarkozy has announced plans for a high-level meeting of "G20 nuclear industry officials" in Paris in May 2011 "to define international nuclear safety standards." The article states that Sarkozy "declared this [meeting] would lay the groundwork for the IAEA high-level meeting on June 20-24. We are seeking additional information on this announcement from official channels. Message sent to Eric at 0400 inquiring whether he has heard anything via his French contacts (noting that ASN will be meeting with the NRC Team in the next day or two). Action: Report any new information learned to OIP management and ET.
- Ralph Way BB status. There is an older open ticket item that says he is having trouble with his BB. On 3/31 emailed Ralph asking if he is still having trouble and ccd Danielle and Eric in case Ralph can't read his email. He responded that his email was working, but not the phone. Forwarded his response to ET02 who emailed back to Ralph (Eric & Danielle) and suggested for him to remove his battery and replace it and check. This solution didn't work. Received an email from Eric that this is not an urgent matter and Ralph

can use webmail for now. ACTION: If asked, please let LT Coordinator know the progress on this ticket item and why it is still open.

- INPO: All equipment requests are now going through INPO. They are consolidating all available information. Contact information for INPO is 770-644-8118 or email at <u>inpoercassistance@inpo.org</u>.
- IAEA All Member States Meeting: Received request from the ET director, Mike Weber to coordinate with Mark Shaffer in Vienna to determine the topic and/or agenda for this meeting, which was called by the DG. The ET would like to know what will be communicated by the DG to member states and what might be asked of member states at this meeting. All known information is publicly available on the IAEA's website (see http://iaea.org/newscenter/news/high_level_conference.html). No further action required.
- NRC Health Unit request: The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there still exists a possibility that KI could be required at some point. Should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.
- Request for meteorological data. PMT notified LIA02/03 of their need for meteorological data. Action: If you receive meteorological communications which do not already have PMT on distribution, please ensure PMT is ccied on the email (send to PMT02 and PMT12) and walk a hard copy back to the meteorologists.
- Japan Relief Team Dosimetry. LIA03 sent an email to LiasonJapan (original team) asking for them to
 email back their dosimetry numbers. If dosimeter numbers (on the back) are received directly to the
 international liaison desks they should be forwarded to John O.Donnell and entered into a word document
 on LIA03.
- Daily calls with UK/France/Canada. Calls will take place at 0930 with RST and PMT to discuss reactorrelated and radiation-related information, respectively, with regulatory representatives from these three countries. Everyone should call into the HOO to be connected. Finland and the IAEA may also participate on an intermittent basis. The new number to call into is ((b)(6)) and the pin is ((b)(6)).
- Daily NRC Japan Team RST/PMT Call. The time of the call varies. As of 3/31 it was 1800 with RST and PMT have been notified of the call and international liaison should plan on participating (OIP staff in Japan don't necessarily participate). All parties should call into 301-816-5120 and use pass-code ((1))(6))

DAILY ACTIONS/REMINDERS

- International updates must be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 11 PM 7 AM shift is responsible for the summary call with Danielle and Eric, scheduled daily at 0500 EST, unless rescheduled, and subsequent write-up of one-pager for Margie. Margie reminds us that the write-up should not contain technical details, which are already captured in other reports, and should be marked "Official Use Only – Foreign Government Information."
- The 11pm-7am shift is responsible for sending all emails from the previous day to the FOIA email address. Open new email, copy previous day's emails as an attachment and send to <u>FOIA</u> <u>Response.hoc@nrc.gov</u>.
- The international team should sit in on calls with the ET and team leader (Chuck or Dan) to take notes and
 provide a short summary of what was discussed via email to OIP reps on Japan Team.
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have an international call.
- Reminder to Keep Mark Shaffer in-the-loop at <u>shaffermr@state.gov</u>, regardless of time of day, regardless
 of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.
- Request from RST and PMT to keep them updated on who is currently in Japan on NRC team.
- Please make sure to keep the NRC Japan travelers list updated (check the last updated date) and post a
 new copy on LIA02 cabinet as changes occur.
- Sanitary wipes now available. Action: Please wipe the keyboards, mice and phones before you leave.

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From: Sent: To: Subject: Tobin, Jennifer Friday, April 01, 2011 3:35 PM LIA02 Hoc; LIA03 Hoc Please close loop with Mark/Jen/Andrea/Margie on briefing book

Thanks Gerri, let me know if you have any questions!

-Jenny

Jenny (Tobin) Wollenweber Export Licensing Officer Office of International Programs office: 301-415-2328

From:	LIA02 Hoc
Sent:	Monday, March 28, 2011 2:54 PM
То:	LIA02 Hoc; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar- Tous, Mugeh; 'ShafferMR@state.gov'; Bloom, Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smiroldo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche,
	Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahĺ, Eric; LIA07 Hoc; LIA06 Hoc; LIA08 Hoc; Owens, Janice
Subject:	RE: OUO- TRANSITION REPORT FOR MARCH 28, 0700 - 1500

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TRANSITION REPORT FOR MARCH 28, 0700 - 1500

Jill and Karen to Nancy and Jenny

UPDATES DURING SHIFT

 Request from RST and PMT to keep them updated on who is currently in Japan on NRC team. 3/28, 1300: Updated list provided, minus PII, to RST and PMT. A LOUIS & COLL

- Sent a request to returned travelers/travelers about to return to confirm their status, and to provide them with updated returned traveler checklist at 1300. Received responses from R.DeVercelly. Action: Update list as travelers respond.
- Japan Embassy Request. Email from Mr. Inutsuka (Science Counselor) at Embassy of Japan to Bill and Margie requesting information for the U.S. 50-mile radius for protective measures, including a basis, around the Fukushima plant. Josh B. inquired to Bill and Margie as to status at 2240 Sunday. Email provided to ET/PMT for information/action. Action: Followed up with Margie via email 0857 with data provided by PMT. Forwarded PMT response to Mr. Inutsuka at 1106 after ensuring OIP management was aware of the completed project.
- Return Checklist. Michele Evans had one suggested amendment. The change was made and the document was sent to Michele Evans for concurrence and for distribution to the travelers coming back. Email document to travelers coming back to U.S as requested by Michele Evans (on LIA02 Desktop). Update 3/28/1300: After confirming changes with Michele Evans, sent checklist to travelers already returned and those returning this week.
- NRC Health Unit request: Dr. Cadoux (and Jeanne Dempsey) has contacted LIA02/LIA03 via Jen Schwartzman to discuss the situation with KI. The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there still exists a possibility that KI could be required at some point. Jen has responded to Jeanne that should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.

FUTURE ACTIONS/OPEN ITEMS

- Coordination of IAEA and U.S. Efforts. It appears that DoD (Navy) is taking a logistical leadership role in coordinating efforts for the U.S. government. This information will need to be coordinated with both the IAEA international coordinating team as well as the INPO representative. NRC is interested in knowing what other countries are providing in support to Japan. Email was sent to NRC IAEA Attache' and NRC IAEA desk officer to pursue a path forward. Action: Attache' and desk officer will report if they need anything further from the LT; ET may inquire about path forward.
- **Émche Blackberry Voicemail Problems.** Forwarded directions from TSC to Danielle on how to access her voicemail. She tried them but it still did not work properly. She will call the CSC Monday morning. Her BB number is confirmed. Emailed Eric to confirm his

BB number. Action: A heads up regarding the continuing voice mail problems was sent to CSC. Danielle will call CSC Monday. The Monday teams should stay tuned in case Danielle needs further assistance. Update 3/28 1400: CSC checked in with LIA02/03; but we do not have confirmation that the problem has been solved.

- Commissioner Apostolakis Request. Commissioner wants login information for IAEA's website system termed PRIS. Email sent to Jen S. and Mark S. to request this information so he will not have to register. Action: Mark S. provided documentation that will need to be filled out and submitted to IAEA for access. These documents were been provided to Commissioner Apostolakis' office during 3/28 0700 shift. Action can be considered closed.
- Request for meteorological data. PMT notified LIA02/03 of their need for meteorological data. Action: If you receive meteorological communications which do not already have PMT on distribution, please ensure PMT is cc'ed on the email (send to PMT02 and PMT12) and walk a hard copy back to the meteorologists.
- Japan Relief Team.
 - Dosimetry: LIA03 sent an email to LiasonJapan (original team) asking for them to email back their dosimetry numbers. The initial team sent over was in such a rush that the Headquarters Radiation Safety Officer, John O'Donnell, never recorded which dosimeter was assigned to which staff member. If dosimeter numbers (on the back) are received directly to the international liaison desks they should be forwarded to John O'Donnell and entered into a word document on LIA03.

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- Cris Brown has advised that, rather than asking the relief team to carry additional satellite phones to Japan, the current team should turn ownership of the two satellite phones already over there to a new member of the relief team. The travelers have been advised to work with the current team to determine who should take ownership, then provide that name to Cris Brown and LIA02/LIA03. Action: When name is provided, ensure that Cris Brown has it?
- Request from U.S. Forces Japan. LT Director received a request for specific reactor information from USFJ in preparation for a bilateral. International liaisons gave NRC team in Japan a heads up that the request had come in. LT Director replied to the request indicating that we have a team in Japan and that, rather than duplicate the requests the USG is making of the Japanese, it would be more efficient for USFJ to coordinate with us. LIA02 and 03 were provided as email addresses for USFJ to communicate with.
- IAEA Coordination. The ET had tasked us with understanding the role of the IAEA's Incident and Emergency Centre (IEC) and what the extent of their role is if Japan does not make a formal request to them under the Assistance Convention. We suggested that the IEC serve as a clearinghouse, keeping track of all requests for assistance from Japan, all offers to assist from other countries, who has provided what, and whether it satisfies the requests. We have told the LT Director that OIP will keep the ET informed of developments on this issue. Action: We need to talk to Margie about how she'd like us to proceed with responding to IAEA's request. Continue to follow this and expect questions from ET and LT Director. Update 3/28: M: Shaffer has confirmed that Japan has not requested assistance under the Convention.
- Translators. 24/7 translation coverage has been suspended due to both projected decreasing demand and funding issues. Action: PMT has asked that we identify any Japanese speakers at NRC (e.g. foreign assignees) who can assist if an urgent translation is needed. PMT is comfortable understanding the monitoring data as the fields in the tables are repetitive. Email request sent to Steve D./Charlotte/Mary C.
- Daily NRC Japan Team RST/PMT Call. Next call scheduled for 0300. RST and PMT have been notified of the call and international liaison should plan on participating (Brooke and Kirk don't necessarily participate). All parties should call into 301-816-5120 and use pass-code
- 21:30 Interagency Call.

- Deputies Committee Decisions and Action Items: Action: Annette will be sending us the meeting summaries when she gets them. They need to be placed in the White House file and then search for NRC actions and update the running list. Forward to the LT Director and Coordinator.
- **RST Recommendations:** In reference to the white paper that the RST is writing containing technical recommendations for the Japanese (which will need interagency and consortium stakeholder concurrence), Chuck Casto relayed that Ambassador Roos wants to attach the final recommendations to a document from DOS and submit it to the Japanese side. The ET said that this was not a good idea. Following the call, Chuck Casto did touch base with the Ambassador, who still wants to proceed. The Chairman will probably talk to the Ambassador about this issue in due course. No action required, just be aware in case the issue comes up.

DAILY ACTIONS/REMINDERS

- International updates must be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 11 PM 7 AM shift is responsible for the summary call with Kirk and Brooke, scheduled daily at 0500 EST unless rescheduled, and subsequent write-up of one-pager for Margie. Margie reminds us that the write-up should not contain technical details, which are already captured in other reports, and should be marked "Official Use Only – Foreign Government Information."
- The 11pm-7am shift is responsible for sending all emails from the previous day to the FOIA email address. Open new email, copy previous day's emails as an attachment and send to <u>FOIA</u> <u>Response.hoc@nrc.gov</u>.
- Kirk, Brooke, Danielle and Eric requested that the international team to sit in on calls with the ET and team leader (Chuck or Dan) to take notes and provide a short summary of what was discussed via email.
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have an international call.
- Reminder to Keep Mark Shaffer in-the-loop at <u>shaffermr@state.gov</u>, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.
- Sanitary wipes now available. Action: Please wipe the keyboards, mice and phones before you leave.

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From: Sent: To: Subject: Tifft, Doug Friday, April 01, 2011 4:30 PM OST05 Hoc Out of Office: 04/01/2011 Press Release: Task Force on Japan Events

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I will be out of the office on Friday, April 1. Please contact Monica Orendi at (b)(6) or monica.orendi@nrc.gov

Thanks,

Doug Tifft Regional State Liaison Officer Office: 610-337-6918 Cell: (b)(6) From: Sent: To: Subject: Attachments:

LIA06 Hoc Friday, April 01, 2011 6:56 PM LIA08 Hoc FW: Updated Action Items and Materiel Request List Sensor Data Knowledge Gaps (UNCLASS).ppt

fyi

Liaison Team Director U.S. Nuclear Regulatory Commission Operations Center

-----Original Message-----From: Price, Erik N LTC PACOM, J91 [mailto: Sent: Friday, April 01, 2011 6:47 PM To: LIA07 Hoc; LIA01 Hoc; LIA06 Hoc; NITOPS; CMHT; CMS TaskForce1D - Japan - Deputy Coordinator Cc: PACOM.J91.ALL; PACOM.J92.ALL; Arulanantham, David P CIV PACOM J9; Gouveia, Sharon E CIV PACOM J005; Mackey, Brian P Maj PACOM, J005 Subject: FW: Updated Action Items and Materiel Request List

All,

Attached is a slide we use to discuss sources of information, recipients, and knowledge gaps. I thought it was a good product to share in the hopes that is provokes a "who else needs to know" thought. I hope this is useful.

VR,

LTC Erik N. Price Chief JIACG USPACOM J91

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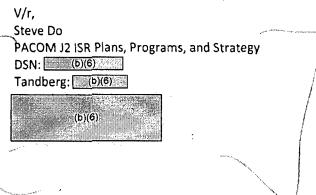
-----Original Message-----From: Do, Steve S CIV PACOM, J2

Sent: Friday, April 01, 2011 12:34 PM To: Price, Erik N LTC PACOM, J91

Cc: Johnson, Steven M CIV PACOM, J91; Dietz, Eric S CAPT PACOM, J2/JIOC; Knight, David L LTC PACOM, J2; Thomas, Lawrence Dean PACOM, J2; 'Highsmith, Frank'; Eberlein, Michael D LCDR PACOM, J2; Wade, Douglas S SES-1 PACOM, J2; Anglin, Mark G CIV JIOC DS; Kojima, Joni C. CIV (PACOM); Adams, John E LTC PACOM, J2 Subject: RE: Updated Action Items and Materiel Request List

LTC Price,

Attached is the UNCLASS version of the Knowledge gap brief presented at the 0930 COI. CAPT Dietz wanted to ensure you have a copy.



-----Original Message-----From: Price, Erik N LTC PACOM, J91 Sent: Friday, April 01, 2011 12:31 PM

To: kevinAS@dni.gov; Barrett, Bruce J CONT DTRA ALNO/J91; Bush, Devin G LTJG RIA-Midwest MPLS, N47922; Castro, Roland M CDR PACOM, Rock; Dietz, Eric S CAPT PACOM, J2/JIOC; Douglas Grues; Dr. Vincent Holohan; Eberlein, Michael D LCDR PACOM, J2; Greco, Stephanie M CTR2 NIOCWI, leave blank; Johnson, Steven M CIV PACOM, J91; Lewis, Floyd A LTC PACOM, J571; Nordgran, Spencer T LCDR PACOM, J5; Pietsch, James C LTC PACOM J571 DTRA LNO; Roy Boone; Somboonpakron, Pasit LCDR PACOM, J5; Tim Traub; Wright, Eric J CIV PACOM, J57; Adams, John E LTC PACOM, J2; Akers, Tyler CIV PACOM JIOC; Do, Steve S CIV PACOM, J2; Frank Highsmith; Knight, David L LTC PACOM, J2; Rushforth, Charles P CONT PACOM PA RSC-PCX1; Schulz, Steve G CIV J2 CSA;; Sparlin, Basil E CIV PACOM, J2; Thomas, Lawrence Dean PACOM, J2; Wong, Lin H CIV (PACOM)

Subject: FW: Updated Action Items and Materiel Request List

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LTC Erik N. Price Chief JIACG USPACOM J91

O: (808) 477-8088

-----Original Message-----

From: LIA01 Hoc [mailto:LIA01.Hoc@nrc.gov]

(b)(6)

Sent: Friday, April 01, 2011 9:46 AM

To: Al Hochevar; Alice Caponiti; Blamey, Alan; Blount, Tom; Boger, Bruce; Casto, Chuck; Christensen, Harold; Craig Gaddis; DORLCAL Resource; Dorman, Dan; DprNrrCal Resource; Emche, Danielle; ET05 Hoc; ET07 Hoc; FOIA Response.hoc Resource; Giitter, Joseph; Southern, Glenn A CIV SEA 08 NR; HOO Hoc; INPO; INPO; INPO; INPO; INPO; INPO; INPO; INPO; Jay Tilden; LIA01 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; McDermott, Brian; McGinty, Tim; Miller, Chris; Monninger, John; Morris, Scott; NRC Liaison at USAID; OST02 HOC; PACOM.J91.ALL; Pentagon Japan Crisis Team J-4 Desk; Peter Lyons; Hoc, PMT12; Rick Nielsen; Robert Gambone; Robert Mercer; Ross-Lee, MaryJane; RST01 Hoc; RST01B Hoc; Sal Golub; Sal Golub; Steve Aoki; Vavoso, Thomas G CIV NAVSEA, 08; Virgilio, Martin; Weber, Michael; Wiggins, Jim; William Webster; Zimmerman, Roy

Subject: Updated Action Items and Materiel Request List

Attached is the updated Action Items and Materiel Request List for your review.

J Hale

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NRC Incident Response Center

Federal Liaison

From:	LIA02 Hoc
Sent:	Friday, April 01, 2011 11:24 PM
То:	LIA02 Hoc; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-
	Tous, Mugeh; 'ShafferMR@state.gov'; Bloom, Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smiroldo, Elizabeth; Young,
	Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche,
	Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens, Janice; Fehst, Geraldine;
	Foggie, Kirk; Breskovic, Clarence
Cc:	LIA07 Hoc
Subject:	Transition Report April 1 1500-2300

TRANSITION REPORT FOR APRIL 1 - 1500-2300"

Gerri to Charlotte

UPDATES DURING SHIFT

- Printer Replacement Requested at Embassy. Danielle Emchee reported at 9 pm EDT April 1 that the computer printer provided by the Embassy has broken down. She asked OIS for suggestions for replacement, including OIS shipping one by Fedex. She noted that purchase/payment in Tokyo would be difficult without pre-approval from NRC and would also require translator assistance. ACTION 1: ET02 forwarded the request to OIS management for resolution, and LIA02 will continue to monitor.
- Rudy Bernhard BB Issue: Rudy Bernhard cannot receive e-mail on his BB and leaves for Japan on Saturday, April 2. ACTION 1: OIS was notified of the request at 8:50 pm EDT on April 1 and they are looking into options. OIS is to contact Rudy, LIAO2 provided Rudy's BB#.
- New Travelers to Japan. All travelers have been cleared through USAID and have completed their travel checklist (including Blackberry, laptop, KI and dosimetry pickup). The list of travelers has been populated and resides on the M drive in the LT folder, it has been sent to the Japan Team and OST02. No further action.
- Update Japan Traveler Information Document on LIA03 with Return Team info Per request from LT Director please update the traveler table as the original NRC Japan Travel Team members return to U.S. Leave the most recent copy on the cabinet in LIA02 work area. on 3/31 emailed "Liaison Japan" and asked them to notify LIA02 and LIA03 when they arrive in the U.S. Also, added this as an action item to the Return Traveler Checklist. ACTION: Await for reply emails from returned travelers and update the Document on LIA03.
- IAEA Request for Severe Accident Mitigation Guidance for a BWR: We need to track down one of these Guidelines and get permission from the BWR Owner's Group to share it with the IAEA. The LT Director put a call in to John Jolicoeur to see if he could get a POC at the BWR Owner's Group. We are still waiting to hear back from him. ACTION: John out of the office 4/1, follow-up on this on 4/4 if we have not heard back by then.
 - Coordination of IAEA and U.S. Efforts. While the IAEA's Incident and Emergency Centre (IEC) has
 not agreed to be a formal "clearinghouse" (i.e., actively reaching out to all IAEA member states
 requesting that all assistance efforts be coordinated through the IEC), they are tracking all offers for
 assistance via a database that was posted on ENAC last week. For the effort to be effective, they need
 input from countries, and they do not have anything from the United States. It was our initial
 understanding that DoD (Navy) is taking a logistical leadership role in coordinating equipment-provision
 efforts for the USG. However, INPO has taken the lead on equipment issues although the State
 Department had taken a lead role in the "Consortium." US Embassy Tokyo had established a tracking
 system to compile assistance requests from the Japanese and offers from USG entities. INPO had

- been separately tracking equipment requests (see INPO item below). The Embassy and INPO tracking have been merged, and the Embassy and NRC Team are developing a standardized form that could be filled out for assistance requests. Danielle is checking to see if a standardized form will be developed for solicited or unsolicited offers for assistance from USG entities. Given the concrete actions US Embassy Tokyo is taking, they should take the lead in providing information to IAEA on behalf of the USG. Danielle indicates that Embassy Tokyo is in the process of verifying with State HQ that they can take the lead on this. Action: Wait to hear back from Danielle, then confirm whether or not US Embassy Tokyo will be communicating with IAEA/IEC. Information can be sent to IEC1@iaea.org with a copy to Mark Shaffer.
- Updated International Travelers Checklist: Carlotta wanted to add an additional item to the list, that travelers need to take International Travel Training before they leave. Carlotta made the change to the checklist and sent it back to LIA02 and Charlotte for final approval in an email on 3/31 at 11:29 am. Checklist finalized and sent. No further action.

FUTURE ACTIONS/OPEN ITEMS

- News Reports on IAEA "Recommendation" to Extend Evacuation Zone: News media is reporting that the IAEA has called on Japan to extend the evacuation zone around Fukushima, based on abnormal levels of radiation detected in a village outside the current evacuation zone. This was not a special announcement nor a formal recommendation from the IAEA. Instead, the reports result from information provided at the March 30 IAEA technical briefing, at which DDG Denis Flory reported on the location of the abnormal radiation levels and noted that they were located outside the evacuation zone. When asked a direct question about whether the IAEA was recommending that Japan extend the zone, DDG Flory stated only that the IAEA was encouraging the "counterpart" to "carefully assess the situation." Full summary of technical briefing here: http://iaea.org/newscenter/news/tsunamiupdate01.html, relevant paragraph is the fourth paragraph under item #2, "Radiation Monitoring." Jen Schwartzman verified with Mark Shaffer that no formal announcement has come from IAEA in this regard. Action: If asked about this by the ET or other NRC management, provide the above information so there is no confusion about IAEA's position."
- Taiwan Conference Call. PMT and RST are available for a 1200 EST one-time conference call with Taiwan, date TBD. The 1500-2300 EST shift on March 31 received a call from Taiwan POC (June-Yuan (JY) Huang, (b)(6)). He said Danielle Emche had offered the conference call (and Danielle's suggestion stems from DOS push). He doesn't see a need for an immediate conference call. He will call again to set up a date. He would like the conference call to start with a briefing on the technical status at Fukushima and then he will ask questions. After he calls with a date please notify/confirm time and date with PMT and RST. Int'l liaison should sit in on the call. Action: Be aware that Mr. Huang will be calling back to set up a specific date. When date is set, please let PMT and RST know that he would like a briefing on the technical status at Fukushima and will have questions.
 - Deputies Committee Decisions and Action Items: SECY has been sending summaries of the Deputies Committee meetings as they are received and the LT Director/Coordinator have been tracking any actions pertinent to the LT. There are currently no international liaison tasks resulting from these meetings but the LT Director will inform us if this changes. Action: Mark Shaffer would like to see the summaries. We sent him everything we had already received but he would need future summaries beginning with the March 30 meeting.
 - Plant Status Updates. James Whitney, NSIR has requested that all of the "Plant Status" news releases on ENAC be sent to him to assist other government agencies in their analysis of the situation. Action: Send james whitney@nrc.gov "plant status updates" on ENAC as they come in (last one sent during 1500-2300 shift on 3/30).
 - Translators. 24/7 translation coverage has been suspended due to both projected decreasing demand and funding issues. Kirk Foggie confirmed that there is only one known NRC employee that speaks Japanese (at the moment) but there is a Japanese foreign assignee and other options available. Also, Tony Nakanishi will be returning from Japan today and may be available to provide translation assistance beginning Monday. Danielle Emche informed us that USAID is paying for an NRC-dedicated translator in Tokyo. If we need items translated and cannot get assistance from within NRC, we can rely on them. Action 1: If in need of USAID translation support, fax the document to +81-3-3224-5538 and send a scanned (PDF) copy to Danielle Emche and Eric Stahl as a backup. Action 2: Inform PMT and RST if a decision is made to resume translation services at NRC.

- Announcement of French nuclear safety meeting in May: Reuters is reporting that Sarkozy has announced plans for a high-level meeting of "G20 nuclear industry officials" in Paris in May 2011 "to define international nuclear safety standards." The article states that Sarkozy "declared this [meeting] would lay the groundwork for the IAEA high-level meeting on June 20-24. We are seeking additional information on this announcement from official channels. Message sent to Eric at 0400 inquiring whether he has heard anything via his French contacts (noting that ASN will be meeting with the NRC Team in the next day or two). Action: Report any new information learned to OIP management and ET.
- INPO: All equipment requests are now going through INPO. They are consolidating all available information. Contact information for INPO is 770-644-8118 or email at <u>inpoercassistance@inpo.org</u>.
- IAEA All Member States Meeting: Received request from the ET director, Mike Weber to coordinate with Mark Shaffer in Vienna to determine the topic and/or agenda for this meeting, which was called by the DG. The ET would like to know what will be communicated by the DG to member states and what might be asked of member states at this meeting. All known information is publicly available on the IAEA's website (see http://iaea.org/newscenter/news/high_level_conference.html). No further action required.
- NRC Health Unit request: The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there still exists a possibility that KI could be required at some point. Should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.
- Request for meteorological data. PMT notified LIA02/03 of their need for meteorological data. Action: If you receive meteorological communications which do not already have PMT on distribution, please ensure PMT is cc'ed on the email (send to PMT02 and PMT12) and walk a hard copy back to the meteorologists.
- Japan Relief Team Dosimetry. LIA03 sent an email to LiasonJapan (original team) asking for them to
 email back their dosimetry numbers. If dosimeter numbers (on the back) are received directly to the
 International liaison desks they should be forwarded to John O'Donnell and entered into a word document
 on LIA03.
- Daily calls with UK/France/Canada. Calls will take place at 0930 with RST and PMT to discuss reactorrelated and radiation-related information, respectively, with regulatory representatives from these three countries. Everyone should call into the HOO to be connected. Finland and the IAEA may also participate on an intermittent basis. The new number to call into is 100(6) and the pin is 100(6)
- Daily NRC Japan Team RST/PMT Call. The time of the call varies. As of 3/31 it was 1800 with RST and PMT have been notified of the call and international liaison should plan on participating (OIP staff in Japan don't necessarily participate). All parties should call into 301-816-5120 and use pass-code ((6)(6))

DAILY ACTIONS/REMINDERS

- International updates must be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 11 PM 7 AM shift is responsible for the summary call with Danielle and Eric, scheduled daily at 0500 EST unless rescheduled, and subsequent write-up of one-pager for Margie. Margie reminds us that the write-up should not contain technical details, which are already captured in other reports, and should be marked "Official Use Only Foreign Government Information."
- The 11pm-7am shift is responsible for sending all emails from the previous day to the FOIA email address. Open new email, copy previous day's emails as an attachment and send to <u>FOIA</u> <u>Response.hoc@nrc.gov</u>.
- The international team should sit in on calls with the ET and team leader (Chuck or Dan) to take notes and provide a short summary of what was discussed via email to OIP reps on Japan Team.
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have an international call.
- Reminder to Keep Mark Shaffer in-the-loop at <u>shaffermr@state.gov</u>, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.
- Request from RST and PMT to keep them updated on who is currently in Japan on NRC team.
- Please make sure to keep the NRC Japan travelers list updated (check the last updated date) and post a new copy on LIA02 cabinet as changes occur.

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OFFICIAL USE ONLY-

From: Sent: To: Cc: Subject: LIA02 Hoc Saturday, April 02, 2011 8:50 AM ET07 Hoc Golla, Joe; Jolicoeur, John RE: IAEA Request for Severe Accident Mitigation

Thanks - we will contact them to inquire about sharing the BWR SAMGs.

From: ET07 Hoc Sent: Saturday, April 02, 2011 7:59 AM To: LIA02 Hoc Cc: Golla, Joe Subject: IAEA Request for Severe Accident Mitigation

You had asked for info on a POC to discuss sharing BWR SAMGs with IAEA. I did some searching through my blackberry and found the info on the BWROG Chairman. I would say to contact

Frederick P. "Ted" Schiffley, Il Chairman, BWR Owners' Group

Exelon Nuclear Office of NGG Sr VP - Engineering & Tech Srvcs Cornerstone II at Cantera 4300 Winfield Road Warrenville, Illinois 60555 Phone: 630-657-3897 Cell: (b)(6)

frederick.schiffley@exeloncorp.com

Let me know if you need additional info.

John Jolicoeur Status Officer

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From:	RMTPACTSU_ELNRC <rmtpactsu_elnrc@ofda.gov></rmtpactsu_elnrc@ofda.gov>
Sent:	Saturday, April 02, 2011 9:26 AM
То:	LIA02 Hoc; LIA01 Hoc; LIA11 Hoc; ET07 Hoc
Subject:	FYI: eInvoice, April 02 for BERNHARD
Attachments:	Bernhard-TA-Japan-April 2011.pdf;

Subject: FW: eInvoice, April 02 for BERNHARD

Rudy,

Please click the link below to access your e-ticket. Feel free to contact us should you have any questions. Please save all your receipts from travel for anything over \$75 USD so that you can submit your voucher upon your return. I have attached both your Travel Authorization and an email from Natalya Johnson regarding information about transportation to your hotel. Please let us know if you have any questions. Have a safe and successful trip!

The contact information for OFDA Travel (after-hours) is as follows:

First contact:	1/2 - and a second s
Lisa Schaefer	
Cell: ((b)(6)	
Blackberry: (b)(6)	
E-mail: travel@ofda.gov	
Second contact:	
🔰 Ara Friedman	
Blackberry: (b)(6)	
Cell: (b)(6)	
E-mail: <u>travel@ofda.gov</u>	
	A second s
Also, please contact the RM	T AC, at 202-712-0031, should you have any additional needs.

Thanks,

Lisa Schaefer Travel Specialist USAID/Office of Foreign Disaster Assistance Travel Main Line: 202-661-9388 Direct: 202-661-9322 Lischaefer@usaid.gov Lschaefer@ofda.gov

From: YOUR TRAVEL CONSULTANT [mailto:no-reply@virtuallythere.com] Sent: Friday, April 01, 2011 3:30 PM To: travel; RMTPACTSU_AC Subject: eInvoice, April 02 for BERNHARD Your Travel Arranger is pleased to deliver your complete travel itinerary through Sabre® Virtually There®. To view your elnvoice, click on the link below. Once the itinerary is displayed, click on the elnvoice icon.

Click here to access your reservation on the web or a mobile device.

Your eInvoice is available for 90 days after its issuance.

CLICK HERE to opt out of receiving future e-mails from Virtually There.

If the above link is inactive, please paste this URL into your browser to access your reservations:

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&pnr=DB0EB5J7PR6D&name=BERNH ARD&language=0&email=2

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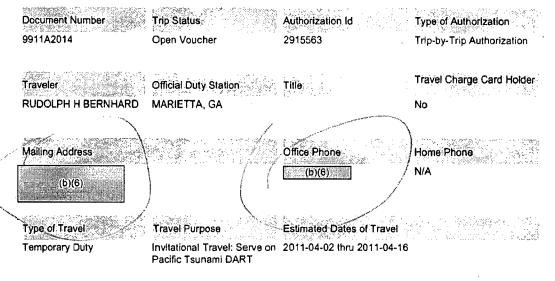
Please do not reply to this e-mail. Your Travel Consultant has not provided Virtually There with an e-mail address to which replies may be sent. If you have questions, please contact your Travel Consultant through other means.

E2 Travel Authorization

01 Apr 2011 @ 13:21:30

PRIVACY ACT NOTICE: The following information is provided to comply with the Privacy Act of 1974(P.S. 93-579). The information requested on the form is required under the provisions of 5 U.S.C. Chapter 57(as amended), Executive Orders 11609 of July 22, 1971, and 1102 of March 27, 1962, for the purpose of facilitating authorization action and the request for advance of funds for travel and other expenses to be incurred under administrative. The information contained in this form will be used by the Federal agency officers and employees who have a need for such information in the performance of their duties. Information will be transferred to appropriate Federal, State, local, or foreign agencies when relevant to civil, criminal or regulatory investigations, or prosecutions. Failure to provide the information required will result in delay or suspension of the processing of this form.

Authorization Information



Authorized Itinerary

Cabin Class Bu	isiness						
Arrive	Depart	Time	Location	Car	Hotel	Mode	Notes
2011-04-02	2011-04-02	N/A	MARIETTA, GA	NONE	No	СР	
2011-04-03	2011-04-16	N/A	TOKYO CITY, JPN	NONE	No	СР	Temporary Duty, LDG \$257, M & IE \$233
2011-04-16	2011-04-16	N/A	MARIETTA, GA	NONE	No	NONE	· · · ·

PA-C = Government auto available and committed

PA-NA = Government auto not available

PA-NC = Government auto available and not committed

Authorization Expense Totals

Transport	Lodging	Meals & Incidentals	Car Rental	Local Transport	POV	Misc	Grand Total
5,000.00	0.00	3,378.50	0.00	0.00	0.00	1,066.50	9,445.00

Authorization Accounting Information

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Accounting String	Object Code CBA Amount	Card Amount Amount Amount	4

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	14 .	2011-04- 12	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals
•	15	2011-04- 13	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals
	16	2011-04- 14	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals
	17	2011-04- 15	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals
	18	2011-04- 16	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	407.75	Actual Lodging / Prescribed Meals

Authorization Remarks

Remark Details

Authorization Remarks - Trip ID: 2915563

Arranger - LISA M SCHAEFER

April 01, 2011 at 08:27 AM

Purpose: INVITATIONAL TRAVEL: Pacific Tsunami DART

A Lodging Plus per diem is authorized at the maximum daily rates. Lodging receipts are required. On the first and last days of travel, 75 percent of M and IE is authorized.

The following expenses are authorized: bottled water, business calls/internet, airport tax, ticket purchase, military transport, excess baggage, ATM/Travelers Check fees, most cost effective transportation - metro, shuttle, taxi, etc., in-country/regional travel, aircraft charter, hotel business center, and visa fees.

Traveler is authorized up to two checked bags, not to exceed airline weight allowance per bag. Charges levied by carriers on the first and/or second bag (within the airline weight limits) are allowable, excluding any charges levied as a result of excess weight. Receipts are required for any baggage payments.

Please note that housing is provided in Tokyo.

Please charge airfare to the centrally-funded USAID/W travel Card.

When travel exceeds fourteen hours and the traveler is flying in economy class, business class is authorized for the inbound flight to Japan. Departing the US travel is more than 14 hours and Business Class will be in lieu of rest stop, the traveler must report to work the day directly following his arrival and could not depart any earlier in order to take advantage of the rest stop option due to work obligations. Please note the traveler will be flying economy class on the return trip. Please see authorizing memo attached.

Travel on military transport is Authorized -Air, Water and Ground-. On base billeting is authorized. Purchase of BX/PX, fuel and commissary privileges are authorized.

Administrative approval is given for authorized expenses incurred prior to this authorization.

A travel voucher must be submitted within 5 business days following completion of travel.

Receipts are required for all other expenses in excess of \$75.00.

Manassas Travel fees are authorized.

E2 Solutions - E2 Solutions

April 01, 2011 at 08:38 AM

System Generated Remark: Justification Code submitted by LISA M SCHAEFER for RUDOLPH H BERNHARD - Justification for CABINCLASS - Business class: Travel in excess of 14 hours - TDY (B06)

April 01, 2011 at 10:46 AM

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Duluth Travel fees are authorized.

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The TQ number in Phoenix is 00011TQ005444.

Authorization History	
Date	Action
01APR11 Fri 08:23AM	Status now New Authorization
01APR11 Fri 08:23AM	Created by LISA M SCHAEFER for RUDOLPH H BERNHARD
01APR11 Fri 08:23AM	Arranger LISA M SCHAEFER updated the cabin class to Business Class
01APR11 Fri 08:26AM	Booked Airfare/Common Carrier rate \$0.00 changed to \$8000.00 by SCHAEFER, LISA M for BERNHARD, RUDOLPH H
01APR11 Fri 08:37AM	Booked Airfare/Common Carrier rate \$8000.00 changed to \$5000.00 by SCHAEFER, LISA M for BERNHARD, RUDOLPH H
01APR11 Fri 08:38AM	Justification Code submitted by LISA M SCHAEFER for RUDOLPH H BERNHARD - Justification for CABINCLASS - Business class: Travel in excess of 14 hours - TDY (B06)
01APR11 Fri 08:39AM	Submitted to DCHA-OFDA-PS-LEVEL 1 approver CHAN, CAROL by LISA M SCHAEFER for RUDOLPH H BERNHARD
01APR11 Fri 08:39AM	Reservation is optional, LISA M SCHAEFER for RUDOLPH H BERNHARD sent to approver with no Reservation.
01APR11 Fri 08:39AM	Status changed to: Pending Authorization Approval
01APR11 Fri 08:39AM	SCHAEFER, LISA M unlocked document: No approver specified.
01APR11 Fri 10:26AM	PEYREBRUNE, JOHN C locked document for Approval.
01APR11 Fri 10:28AM	Approver PEYREBRUNE, JOHN C concurred with justifications
01APR11 Fri 10:28AM	Approved By DCHA-OFDA-PS-LEVEL 1 Approver PEYREBRUNE, JOHN C
01APR11 Fri 10:28AM	Submitted to DCHA-OFDA-TRAVEL SPECIALIST by the System
01APR11 Fri 10:44AM	SCHAEFER, LISA M locked document for Approval.
01APR11 Fri 10:46AM	Approver SCHAEFER, LISA M concurred with justifications
01APR11 Fri 10:46AM	Approved By DCHA-OFDA-TRAVEL SPECIALIST Approver SCHAEFER, LISA M
01APR11 Fri 10:46AM	Submitted to M-MS-TRAVEL AND TRANSPORTATION DIVISION by the System
01APR11 Fri 11:17AM	JOHNSON, GWENDOLYN locked document for Approval.
01APR11 Fri 12:07PM	Approver JOHNSON, GWENDOLYN concurred with justifications

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01APR11 Fri 12:07PM	Approving Official GWENDOLYN JOHNSON authorized actual expenses for lodging and prescribed M&IE rate - NTE 300% of per diem at TOKYO CITY, JPN
01APR11 Fri 12:07PM	Status changed to: Open Voucher
01APR11 Fri 12:07PM	Approved By M-MS-TRAVEL AND TRANSPORTATION DIVISION Approver JOHNSON, GWENDOLYN
01APR11 Fri 12:07PM	Agency successfully notified of event: TripAuthorizationApproved for trip 2915563
01APR11 Fn 12:07PM	Obligation status changed to: Pending Obligation
01APR11 Fri 12:07PM	Obligation status changed to: Obligation Accepted

Audit/Approver Information

Action	Official	Date / Time
Approved (DCHA-OFDA-PS- LEVEL 1)	PEYR4193[PEYREBRUNE, JOHN]	2011-04-01
Approved [DCHA-OFDA-TRAVEL SPECIALI]	SCHA9300[SCHAEFER,LISA]	2011-04-01
Approved [M-MS-TRAVEL AND TRANSPORT]	JOHN0664[JOHNSON,GWENDOLYN]	2011-04-01

From: Sent: To: Subject: Attachments: RMTPACTSU_ELNRC <RMTPACTSU_ELNRC@ofda.gov> Saturday, April 02, 2011 9:30 AM LIA02 Hoc; LIA01 Hoc; LIA11 Hoc; ET07 Hoc FYI: Travel Reservation April 02 for SALAY Salay-TA-Japan-April 2011.pdf; (b)(6)

Subject: FW: Travel Reservation April 02 for SALAY

Michael,

Please click the link below to access your e-ticket. Please save all your receipts from travel for anything over \$75 USD so that you can submit your voucher upon your return. I have attached both your Travel Authorization and an email from Natalya Johnson regarding information about transportation to your hotel. Please let us know if you have any questions. Have a safe and successful trip!

The contact information for OFDA Travel (after-hours) is as follows:

	First contact:
	Lisa Schaefer
ſ	Cell: (b)(6)
	Blackberry: (b)(6)
~	E-mail: travel@ofda.gov

Second contact: Ara Friedman Blackberry: (b)(6) Cell: (b)(6) E-mail: travel@ofda.gov

Also, please contact the RMT AC, at 202-712-0031, should you have any additional needs.

Thanks,

Lisa Schaefer Travel Specialist USAID/Office of Foreign Disaster Assistance Travel Main Line: 202-661-9388 Direct: 202-661-9322 Lischaefer@usaid.gov Lschaefer@ofda.gov

From: YOUR TRAVEL CONSULTANT [mailto:no-reply@virtuallythere.com] Sent: Friday, April 01, 2011 10:24 AM To: RMTPACTSU_CRC; travel Subject: Travel Reservation April 02 for SALAY

Your Travel Arranger is pleased to deliver your complete travel itinerary through Sabre® Virtually There®.

Click here to access your reservation on the web or a mobile device.

Virtually There® allows you to review or print your reservations, as well as:

- Register for trip reminders and cancellation/delay notifications
- View maps & driving directions
- Review city guides & restaurant recommendations
- Get up-to-date weather and much more!

You may also access your reservation on the web or from your mobile device at <u>www.virtuallythere.com</u>. Simply enter your last name and the six-character reservation code provided to you by Your Travel Arranger. As a security measure, you will be prompted to enter your e-mail address or a password that Your Travel Arranger may have provided to you. If you have any question about which e-mail address to use, we recommend that you use the one that received this e-mail.

CLICK HERE to opt out of receiving future e-mails from Virtually There.

If the above link is inactive, please paste this URL into your browser to access your reservations:

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&pnr=7WFF5CF156G2&name=SALAY &language=0&email=2

Please do not reply to this e-mail. Your Travel Consultant has not provided Virtually There with an e-mail address to which replies may be sent. If you have questions, please contact your Travel Consultant through other means.

E2 Travel Authorization

01 Apr 2011 @ 14:30:15

PRIVACY ACT NOTICE: The following information is provided to comply with the Privacy Act of 1974(P.S. 93-579). The information requested on the form is required under the provisions of 5 U.S.C. Chapter 57(as amended), Executive Orders 11609 of July 22, 1971, and 1102 of March 27, 1962, for the purpose of facilitating authorization action and the request for advance of funds for travel and other expenses to be incurred under administrative. The information contained in this form will be used by the Federal agency officers and employees who have a need for such information in the performance of their duties. Information will be transferred to appropriate Federal, State, local, or foreign agencies when relevant to civil, criminal or regulatory investigations, or prosecutions. Failure to provide the information required will result in delay or suspension of the processing of this form.

Authorization Information Document Number Trip Status Authorization Id Type of Authorization 9911A2023 **Open Voucher** 2919703 Trip-by-Trip Authorization Travel Charge Card Holder Traveler Official Duly Station Title MICHAEL A SALAY WASHINGTON, DC INVITATIONAL No Mailing Address Office Phone Home Phone (b)(6) N/A (b)(6) Type of Travel Travel Purpose Estimated Dates of Travel **Temporary Duty** Invitational Travel: Serve on 2011-04-02 thru 2011-04-16 Pacific Tsunami DART

Authorized Itinerary

Cabin Class Coa	ach							
Arrive	Depart	Time	Location	Car	Hotel	Mode	Notes	
2011-04-02	2011-04-02	N/A	WASHINGTON, DC		No	СР		
2011-04-03	2011-04-16	N/A	TOKYO CITY, JPN	NONE	No	СР	Temporary Duty, LDG \$257, M & IE \$233	
2011-04-16	2011-04-16	N/A	WASHINGTON, DC	NONE	No	NONE		

PA-C = Government auto available and committed

PA-NA = Government auto not available

PA-NC = Government auto available and not committed

Authorization Expense Totals

Transport	Lodging	Meals & Incidentais	Car Rental	Local Transport	POV	Misc	Grand Total
2,700.00	0.00	3,378.50	0.00	0.00	0.00	1,040.50	7,119.00

Authorization Accounting Information

Accounting String		Object Code	CBA Amount	Travel Charge Card Amount	Traveler Amount	Auth Amount

- C.	ting String				Object Code	CBA Amount	Travel Charge Card Amount	Traveler Amount	Amount
Area/D lemer Code/P empla	istribution C IVTeam/Divi rogram Tar ite/Commitm nmitment Li	ode/Program Elemer ision/Benefiting Geo get/Post Code/Burea nent Document Type.	Area/Operating Unit D	Defined/Sub-Obje	ect				
V/A089)/NA/NA/48	2X1035/DCHA/OFD 8/NA/2100801/NA/79 TQ005449/1/NA/NA/I	9/NA/2011 DCHA PR	ROGRAM		0.00	0.00) 7119.00	7119.00
						0.00	0.00	7119.00	7119.00
Auth	orization	n Expense Sur	mmary						
ocatio		Expense Calegory		Amoliot	ense Reimburse	ment			
and S.) CITY,	Meals & Incidentals		3,378.50 Act Me	ual Lodging / Pres	scribed			
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Line #	Date	Location	Expense Category	Expense Type Cla	im Amt	Type	Reason
14	2011-04- 12	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals	
15	2011-04- 13	TOKYO CITY; JPN	Meals & Incidentals	Meals Perdiern	233.00	Actual Lodging / Prescribed Meals	
16	2011-04- 14	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals	
17	2011-04- 15	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals	
18	2011-04- 16	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	407.75	Actual Lodging / Prescribed Meals	

Authorization Remarks

Remark Details:

Authorization Remarks - Trip ID: 2919703

Arranger - LISA M SCHAEFER

April 01, 2011 at 11:08 AM

Purpose: INVITATIONAL TRAVEL: Pacific Tsunami DART

A Lodging Plus per diem is authorized at the maximum daily rates. Lodging receipts are required. On the first and last days of travel, 75 percent of M and IE is authorized.

The following expenses are authorized: bottled water, business calls/internet, airport tax, ticket purchase, military transport, excess baggage, ATM/Travelers Check fees, most cost effective transportation - metro, shuttle, taxi, etc., in-country/regional travel, aircraft charter, hotel business center, and visa fees.

Traveler is authorized up to two checked bags, not to exceed airline weight allowance per bag. Charges levied by carriers on the first and/or second bag (within the airline weight limits) are allowable, excluding any charges levied as a result of excess weight. Receipts are required for any baggage payments.

Please note that housing is provided in Tokyo.

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set.

Remark Details

Travel on military transport is Authorized -Air, Water and Ground-. On base billeting is authorized. Purchase of BX/PX, fuel and commissary privileges are authorized.

Administrative approval is given for authorized expenses incurred prior to this authorization.

A travel voucher must be submitted within 5 business days following completion of travel.

Receipts are required for all other expenses in excess of \$75.00.

Duluth Travel fees are authorized.

Approver - LISA M SCHAEFER

April 01, 2011 at 11:45 AM

The TQ number in Phoenix is 00011TQ005449.

Authorization History Date	Açtion - Action - Act
01APR11 Fri 11:06AM	Status now New Authorization
01APR11 Fri 11:06AM	Created by LISA M SCHAEFER for MICHAEL A SALAY
01APR11 Fri 11:06AM	Arranger LISA M SCHAEFER updated the cabin class to Coach Class

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Date .	Action
01APR11 Fri 11:07AM	Booked Airfare/Common Carrier rate \$0.00 changed to \$2700.00 by SCHAEFER, LISA M for SALAY, MICHAEL A
01APR11 Fri 11:18AM	Submitted to DCHA-OFDA-PS-LEVEL 1 approver CHAN, CAROL by LISA M SCHAEFER for MICHAEL A SALAY
01APR11 Fri 11:18AM	Reservation is optional, LISA M SCHAEFER for MICHAEL A SALAY sent to approver with no Reservation.
01APR11 Fri 11:18AM	Status changed to: Pending Authorization Approval
01APR11 Fri 11:19AM	SCHAEFER, LISA M unlocked document: No approver specified.
01APR11 Fri 11:30AM	PEYREBRUNE, JOHN C. locked document for Approval.
01APR11 Fri 11:31AM	Approved By DCHA-OFDA-PS-LEVEL 1 Approver PEYREBRUNE, JOHN C
01APR11 Fri 11:31AM	Submitted to DCHA-OFDA-TRAVEL SPECIALIST by the System
01APR11 Fri 11:44AM	SCHAEFER, LISA M locked document for Approval.
01APR11 Fri 11:45AM	Approved By DCHA-OFDA-TRAVEL SPECIALIST Approver SCHAEFER, LISA M
01APR11 Fri 11:45AM	Submitted to M-MS-TRAVEL AND TRANSPORTATION DIVISION by the System
01APR11 Fri 12:10PM	JOHNSON, GWENDOLYN locked document for Approval.
01APR11 Fri 02:26PM	Approving Official GWENDOLYN JOHNSON authorized actual expenses for lodging and prescribed M&IE rate - NTE 300% of per diem at TOKYO CITY, JPN
01APR11 Fri 02:26PM	Status changed to: Open Voucher
01APR11 Fri 02:26PM	Approved By M-MS-TRAVEL AND TRANSPORTATION DIVISION Approver JOHNSON, GWENDOLYN
01APR11 Fri 02:26PM	Agency successfully notified of event: TripAuthorizationApproved for trip 2919703
01APR11 Fri 02:26PM	Obligation status changed to: Pending Obligation
01APR11 Fri 02:26PM	Obligation status changed to. Obligation Accepted
01APR11 Fri 02:26PM	MICHAEL A SALAY sent email request to USAID@DULUTHTRAVEL.COM. A copy of the email can be found with attached documents.
01APR11 Fri 02:26PM	Approval Data Sent to Travel Agent via Email

Audit/Approver Information

Action	Official	Dale / Time
Approved [DCHA-OFDA-PS- LEVEL 1]	PEYR4193[PEYREBRUNE, JOHN]	2011-04-01
Approved [DCHA-OFDA-TRAVEL SPECIALI]	SCHA9300[SCHAEFER,LISA]	2011-04-01
Approved [M-MS-TRAVEL AND TRANSPORT]	JOHN0664[JOHNSON.GWENDOLYN]	2011-04-01

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From: Sent: To: Subject: Attachments: ET07 Hoc Saturday, April 02, 2011 9:40 AM (b)(6) FW: Audio Recorded on 02-Apr-2011 at 09.01.34 (0(%3\$\$!L10465094).WAV; image001.gif

From: Blount, Tom Sent: Saturday, April 02, 2011 9:25 AM To: ET07 Hoc Subject: FW: Audio

From: HOO Hoc Sent: Saturday, April 02, 2011 9:22 AM To: Blount, Tom Subject: Audio

Tom,

Attached is the audio file from the NSS (Chuck Denal) call re: NARAC modeling.

Howie

Headquarters Operations Officer U.S. Nuclear Regulatory Commission Phone: (301) 816-5148 Fax: (301) 816-5151 Email: <u>hoo.hoc@nrc.gov</u> Secure Email: <u>hoo@nrc.gov.gov</u>



and a

Attachment Recorded on 02-Apr-2011 at 09.01.34 (0(%3\$\$! L10465094).WAV(362040 bytes) cannot be converted to PDF format.

1. 17. 38. 8. 8. Lat. - C. a.k

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From: Sent: To: Subject: RMTPACTSU_ELNRC <RMTPACTSU_ELNRC@ofda.gov> Saturday, April 02, 2011 9:52 AM LIA01 Hoc; LIA02 Hoc; LIA11 Hoc; ET07 Hoc FYI: elnvoice, April 02 for CALL

Subject: Re: eInvoice, April 02 for CALL

Michel,

I was finally able to confirm with our travel agent that your name has been changed on the ticket. Sorry for the delay.

Have a safe trip!

From: Schaefer, Lisa To: 'michel.call@nrc.gov' <michel.call@nrc.gov> Cc: travel; RMTPACTSU_AC; RMTPACTSU_CRC; RMTPACTSU_ELNRC Sent: Fri Apr 01 16:54:00 2011 Subject: FW: eInvoice, April 02 for CALL Michel,

Please click the link below to access your e-ticket. Feel free to contact us should you have any questions. Please save all your receipts from travel for anything over \$75 USD so that you can submit your voucher upon your return. I have attached both your Travel Authorization and an email from Natalya Johnson regarding information about transportation to your hotel. Please let us know if you have any questions. Have a safe and successful trip!

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The contact information for OFDA Travel (after-hours) is as follows:

~	First contact:	- New Yorkson and the second and the second and the second and
	Lisa Schaefer	and the second se
	Cell: 661-317-4943	\mathbf{X}
	Blackberry: (b)(6)	`
	E-mail: <u>travel@ofda.gov</u>	
the state of the s		1
	Second contact:	
	Ara Friedman	
	Blackberry: 703-589-1045	
	Cell: (b)(6)	/
	E-mail: travel@ofda.gov	L
	and the second se	and a first of the second s

Also, please contact the RMT AC, at 202-712-0031, should you have any additional needs.

Thanks,

Lisa Schaefer Travel Specialist USAID/Office of Foreign Disaster Assistance Travel Main Line: 202-661-9388 Direct: 202-661-9322 Lischaefer@usaid.gov Lschaefer@ofda.gov

From: YOUR TRAVEL CONSULTANT [mailto:no-reply@virtuallythere.com] Sent: Friday, April 01, 2011 3:38 PM To: travel; RMTPACTSU_AC Subject: eInvoice, April 02 for CALL

Your Travel Arranger is pleased to deliver your complete travel itinerary through Sabre® Virtually There®. To view your elnvoice, click on the link below. Once the itinerary is displayed, click on the elnvoice icon.

Click here to access your reservation on the web or a mobile device.

Your eInvoice is available for 90 days after its issuance.

CLICK HERE to opt out of receiving future e-mails from Virtually There.

If the above link is inactive, please paste this URL into your browser to access your reservations:

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&pnr=NW9EC5211J4V&name=CALL& language=0&email=2

Please do not reply to this e-mail. Your Travel Consultant has not provided Virtually There with an e-mail address to which replies may be sent. If you have questions, please contact your Travel Consultant through other means.

E2 Travel Authorization

01 Apr 2011 @ 13:19:40

PRIVACY ACT NOTICE: The following information is provided to comply with the Privacy Act of 1974(P.S. 93-579). The information requested on the form is required under the provisions of 5 U.S.C. Chapter 57(as amended), Executive Orders 11609 of July 22, 1971, and 1102 of March 27, 1962, for the purpose of facilitating authorization action and the request for advance of funds for travel and other expenses to be incurred under administrative. The information contained in this form will be used by the Federal agency officers and employees who have a need for such information in the performance of their duties. Information will be transferred to appropriate Federal, State, local, or foreign agencies when relevant to civil, criminal or regulatory investigations, or prosecutions. Failure to provide the information required will result in delay or suspension of the processing of this form.

Authorization Information



Authorized Itinerary

Cabin Class	Coach	·	
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Arrive	Depart	Time	Location	Car	Hotel	Mode	Notes
2011-04-02	2011-04-02	N/A	BETHESDA, MD	NONE	No	СР	
2011-04-03	2011-04-16	N/A	TOKYO CITY, JPN	NONE	No	СР	Temporary Duty, LDG \$257, M & IE \$233
2011-04-16	2011-04-16	N/A	BETHESDA, MD	NONE	No	NONE	

PA-C = Government auto available and committed

PA-NA = Government auto not available

PA-NC = Government auto available and not committed

Authorization Expense Totals

Transport	Lodging	Meals & Incidentals	Car Rental	Local Transport	POV	Misc	Grand Total
2,700.00	0.00	3,378.50	0.00	0.00	0.00	1,040.50	7,119.00

Authorization Accounting Information

Accounting String	Object Code	CBA Amount	Travel Charge Card Amount	Traveler Amount	Auth Amount
	and the second	C. L. A. C. Martin, K. Martin,	ADDITION AND ADDITION AND ADDITION ADDITIONAL	10.5 / 10.0 A / 10.1	1100.00

2011/NA/FD-X11/72X1035/DCHA/OFDA/A22/488- WA089NA/XI00901/INA/799/NA/2011 DCHA PROGRAM FUNDS/TQ/000111TQ005443/1/NA/NA/NA Authorization Expense Summary Location Expense Category Expense Type Amount Expense Reimbursement TOKYO CITY, Meals & Incidentals Meals Perdiem 3,378.50 Actual Lodging / Prescribed JPN Misc Other Reimbursable Expenses 1,040.50 Actual Lodging / Prescribed Meals TOKYO CITY, Transport Airfare 2,700.00 Actual Lodging / Prescribed Meals Authorization Expense Lines	Accounting String Segment Names: BBFY/EBFY/Fund/Treasury Symbol/Operating Unit/Program Area/Distribution Code/Program Element/Program Sub- Element/Team/Division/Benefiting Geo Area/Operating Unit Defined/Sub-Object Code/Program Target/Post Code/Bureau Code/Accounting Template/Commitment Document Type/Commitment Document No/Commitment Line No/Bilateral Obl Doc Type/Bilateral Obl Doc No/Bilateral Obl Line No												
Authorization Expense SumaryLocationExpense CategoryExpense TypeAmountExpense Reimbursement TypeTOKYO CITY, JPNMeals & IncidentalsMeals Perdiem3,378.50Actual Lodging / Prescribed MealsTOKYO CITY, JPNMiscOther Reimbursable Expenses Incurred1,040.50Actual Lodging / Prescribed MealsTOKYO CITY, JPNTransportAirfare2,700.00Actual Lodging / Prescribed Meals	V/A089/NA/NA/488/NA/2100801/NA/799/NA/2011 DCHA PROGRAM 0.00 0.00 7119.00 7119.00												
LocationExpense CategoryExpense TypeAmountExpense ReimbursementTOKYO CITY, JPNMeals & IncidentalsMeals Perdiem3,378.50Actual Lodging / Prescribed MealsTOKYO CITY, JPNMiscOther Reimbursable Expenses Incurred1,040.50Actual Lodging / Prescribed MealsTOKYO CITY, JPNMiscAirfare2,700.00Actual Lodging / Prescribed Meals	00												
LocationExpense CategoryExpense TypeAmountExpense ReimbursementTOKYO CITY, JPNMeals & IncidentalsMeals Perdiem3,378.50Actual Lodging / Prescribed MealsTOKYO CITY, JPNMiscOther Reimbursable Expenses Incurred1,040.50Actual Lodging / Prescribed MealsTOKYO CITY, JPNMiscAirfare2,700.00Actual Lodging / Prescribed Meals													
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JPN Meals TOKYO CITY, JPN Misc Other Reimbursable Expenses Incurred 1,040.50 Actual Lodging / Prescribed Meals TOKYO CITY, JPN Transport Airfare 2,700.00 Actual Lodging / Prescribed Meals													
TOKYO CITY, JPNMiscReimbursable Expenses Incurred1,040.50Actual Lodging / Prescribed MealsTOKYO CITY, JPNTransportAirfare2,700.00Actual Lodging / Prescribed Meals													
JPN Transport Almare 2,700.00 Meals													
Authorization Expense Lines													
Line # Date Location Expense Category Expense Type Claim Amt Expense Reimbursement Reason													
1 2011-04- TOKYO CITY, Transport Airfare 2,700.00 Actual Lodging / Prescribed Meals													
2 2011-04- TOKYO CITY, Misc Voucher Actual Lodging / Prescribed VTF													
3 2011-04- TOKYO CITY, Misc TMC Fee 26.00 Actual Lodging / Prescribed Duluth Travel Meals Fees													
4 2011-04- TOKYO CITY, Misc Other 1,000.50 Actual Lodging / Prescribed All Authorized 02 JPN Misc Reimbursable Expenses incurred on Incurred trip													
5 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 174.75 Actual Lodging / Prescribed Meals													
6 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed Meals													
7 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed Meals													
8 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed Meals													
9 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed Meals													
10 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed Meals													
11 09 JPN Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed Meals													
12 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed Meals													
13 2011-04- TOKYO CITY, Meals & Incidentals Meals Perdiem 233.00 Actual Lodging / Prescribed 11 JPN Meals													

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14	2011-04- 12	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals		
15	2011-04- 13	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals		
16	2011-04- 14	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals		
17	2011-04- 15	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals		
18	2011-04- 16	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	407.75	Actual Lodging / Prescribed Meals		

Authorization Remarks

Remark Details

Authorization Remarks - Trip ID: 2916062

Arranger - LISA M SCHAEFER

April 01, 2011 at 08:52 AM

Purpose: INVITATIONAL TRAVEL: Pacific Tsunami DART

A Lodging Plus per diem is authorized at the maximum daily rates. Lodging receipts are required. On the first and last days of travel, 75 percent of M and IE is authorized.

The following expenses are authorized: bottled water, business calls/internet, airport tax, ticket purchase, military transport, excess baggage, ATM/Travelers Check fees, most cost effective transportation - metro, shuttle, taxi, etc., in-country/regional travel, aircraft charter, hotel business center, and visa fees.

Traveler is authorized up to two checked bags, not to exceed airline weight allowance per bag. Charges levied by carriers on the first and/or second bag (within the airline weight limits) are allowable, excluding any charges levied as a result of excess weight. Receipts are required for any baggage payments.

Please note that housing is provided in Tokyo.

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. ** Please charge airfare to the centrally-funded USAID/W travel Card.

Travel on military transport is Authorized -Air, Water and Ground-. On base billeting is authorized. Purchase of BX/PX, fuel and commissary privileges are authorized.

Administrative approval is given for authorized expenses incurred prior to this authorization.

A travel voucher must be submitted within 5 business days following completion of travel.

Receipts are required for all other expenses in excess of \$75.00.

Manassas Travel fees are authorized.

Approver - LISA M SCHAEFER

April 01, 2011 at 10:40 AM

Duluth Travel fees are authorized.

The TQ number in Phoenix is 00011TQ005443.

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Authorization History	
Date	Action
01APR11 Fri 08:48AM	Status now New Authonization
01APR11 Fri 08:48AM	Created by LISA M SCHAEFER for MICHEL A CALL
01APR11 Fri 08:48AM	Arranger LISA M SCHAEFER updated the cabin class to Coach Class
01APR11 Fri 08:50AM	Booked Airlare/Common Carrier rate \$0.00 changed to \$2700.00 by SCHAEFER, LISA M for CALL, MICHEL A
01APR11 Fri 08:53AM	Submitted to DCHA-OFDA-PS-LEVEL 1 approver CHAN, CAROL by LISA M SCHAEFER for MICHEL A CALL
01APR11 Fri 08:53AM	Reservation is optional, LISA M SCHAEFER for MICHEL A CALL sent to approver with no Reservation.
01APR11 Fn 08:53AM	Status changed to: Pending Authorization Approval
01APR11 Fri 08:53AM	SCHAEFER, LISA M unlocked document: No approver specified.
01APR11 Fri 10:25AM	PEYREBRUNE, JOHN C locked document for Approval.
01APR11 Fri 10:26AM	Approved By DCHA-OFDA-PS-LEVEL 1 Approver PEYREBRUNE, JOHN C
01APR11 Fri 10:26AM	Submitted to DCHA-OFDA-TRAVEL SPECIALIST by the System
01APR11 Fri 10:38AM	SCHAEFER, LISA M locked document for Approval.
01APR11 Fri 10:40AM	Approved By DCHA-OFDA-TRAVEL SPECIALIST Approver SCHAEFER, LISA M
01APR11 Fri 10:40AM	Submitted to M-MS-TRAVEL AND TRANSPORTATION DIVISION by the System
01APR11 Fri 11:16AM	JOHNSON, GWENDOLYN locked document for Approval.
01APR11 Fri 12:06PM	Approving Official GWENDOLYN JOHNSON authorized actual expenses for lodging and prescribed M&IE rate - NTE 300% of per diem at TOKYO CITY, JPN
01APR11 Fri 12:06PM	Status changed to: Open Voucher
01APR11 Fri 12:06PM	Approved By M-MS-TRAVEL AND TRANSPORTATION DIVISION Approver JOHNSON, GWENDOLYN
01APR11 Fri 12:06PM	Agency successfully notified of event: TripAuthorizationApproved for trip 2916062
01APR11 Fri 12:06PM	Obligation status changed to: Pending Obligation
01APR11 Fri 12:06PM	Obligation status changed to: Obligation Accepted

Audit/Approver Information

Audit/Approver Informati		
Action	Official	Date / Time
Approved (DCHA-OFDA-PS- LEVEL 1)	PEYR4193[PEYREBRUNE, JOHN]	2011-04-01
Approved (DCHA-OFDA-TRAVEL SPECIALI)	SCHA9300[SCHAEFER,LISA]	2011-04-01
Approved [M-MS-TRAVEL AND TRANSPORT]	JOHN0664[JOHNSON,GWENDOLYN]	2011-04-01

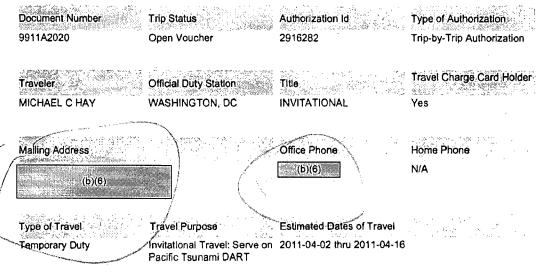
\$

E2 Travel Authorization

01 Apr 2011 @ 15:12:20

PRIVACY ACT NOTICE: The following information is provided to comply with the Privacy Act of 1974(P.S. 93-579). The information requested on the form is required under the provisions of 5 U.S.C. Chapter 57(as amended), Executive Orders 11609 of July 22, 1971, and 1102 of March 27, 1962, for the purpose of facilitating authorization action and the request for advance of funds for travel and other expenses to be incurred under administrative. The information contained in this form will be used by the Federal agency officers and employees who have a need for such information in the performance of their duties. Information will be transferred to appropriate Federal, State, local, or foreign agencies when relevant to civil, criminal or regulatory investigations, or prosecutions. Failure to provide the information required will result in delay or suspension of the processing of this form.

Authorization Information



Authorized Itinerary

Cabin Class	Coach
10-100 XX 100 C 100 V	

Arrive	Depart	Time	Location	Car	Hotel	Mode	Notes
2011-04-02	2011-04-02	N/A	DALLAS, TX	NONE	No	CP	
2011-04-03	2011-04-16	N/A	TOKYO CITY, JPN	NONE	No	СР	Temporary Duty, LDG \$257, M & IE \$233
2011-04-16	2011-04-16	N/A	DALLAS, TX	NONE	No	NONE	

PA-C = Government auto available and committed

PA-NA = Government auto not available

PA-NC = Government auto available and not committed

Authorization Expense Totals

Transport Lo	dğing Meals	& Incidentals Car Re	ntal Loca	Transport PC	۹ ۷	Misc	Grand Total
2,100.00	0.00	3,378.50	0.00	0.00	0.00	1,040.50	6,519.00

Authorization Accounting Information

	Travel Charge Traveler Auth
Accounting String	Object Code CBA Amount

•	Segmen Area/Dis Element Code/Pro Template	tribution C /Team/Div ogram Tai e/Commitr mitment Li	BBFY/EBFY/Fund/T Code/Program Eleme rision/Benefiting Geo rget/Post Code/Burea nent Document Type	Area/Operating Unit I	Defined/Sub-O	bject	CBA Amount Cr	ard Amount	Amount	Amount
	W/A089/	NA/NA/48	72X1035/DCHA/OFD 18/NA/2100801/NA/79 TQ005442/1/NA/NA/	99/NA/2011 DCHA PF	ROGRAM		0.00	0.00	6519.00	6519.00
							0.00	0.00	6519.00	6519.00
	Autho	rizatio		mman						
			Expense Su	dia serra	Amount E	xpense Relmburser	nent			
	TOKYO		Meals & Incidentals	بو څه د کې د		ype Actual Lodging / Pres	scribed			
	JPN		Meals a molderials		5,570.50 N	leals				
	tokyo (Jpn	CITY,	Misc	Other Reimbursable Expenses Incurred		Actual Lodging / Pres Meals	scribed			
	tokyo JPN	CITY,	Transport	Airfare		Actual Lodging / Pres Meals	scribed			
	Autho	rization	n Expense Lin	22						
	Line #	Date	Location	Expense Category	Expense Typ	e Claim Amt	Expense Reimburse	ment Reason		
		2011-04- 02	TOKYO CITY, JPN	Transport	Airfare	2,100.00	Type Actual Lodging / Pre Meals	scribed	·	
	2	2011-04- 02		Misc	Voucher Transaction F		Actual Lodging / Pre Meals	scribed VTF	Ŧ	
	3	2011-04- 02		Misc	TMC Fee	26.00	Actual Lodging / Pre Meals	scribed Duluth T Fee		
	4	2011-04- 02		Misc	Other Reimbursable Expenses Incurred		Actual Lodging / Pre Meals		rized ses d on	
	5	2011-04- 03	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdier	m 174.75	Actual Lodging / Pre Meals	scribed		
	6	2011-04- 04	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals	scribed		
	7	2011-04- 05	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals	scribed		
	8	2011-04- 06	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals	scribed		
	9	2011-04- 07	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals	scribed		
	10	2011-04- 08	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals	scribed		
	11	2011-04- 09	JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals			
	12 .	2011-04- 10	JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals	. •		
	13	2011-04- 11	JPN	Meals & Incidentals	Meals Perdie	m 233.00	Actual Lodging / Pre Meals	scribed		

Page 2 of 6

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14	2011-04- 12	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals	
15	2011-04- 13	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals	
16	2011-04- 14	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals	
17	2011-04- 15	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	233.00	Actual Lodging / Prescribed Meals	
18	2011-04- 16	TOKYO CITY, JPN	Meals & Incidentals	Meals Perdiem	407.75	Actual Lodging / Prescribed Meals	

Authorization Remarks

Remark Details

Authorization Remarks - Trip ID: 2916282

Arranger - LISA M SCHAEFER April 01, 2011 at 08:56 AM

Purpose: INVITATIONAL TRAVEL: Pacific Tsunami DART

A Lodging Plus per diem is authorized at the maximum daily rates. Lodging receipts are required. On the first and last days of travel, 75 percent of M and IE is authorized.

The following expenses are authorized: bottled water, business calls/internet, airport tax, ticket purchase, military transport, excess baggage, ATM/Travelers Check fees, most cost effective transportation - metro, shuttle, taxi, etc., in-country/regional travel, aircraft charter, hotel business center, and visa fees.

Traveler is authorized up to two checked bags, not to exceed airline weight allowance per bag. Charges levied by carriers on the first and/or second bag (within the airline weight limits) are allowable, excluding any charges levied as a result of excess weight. Receipts are required for any baggage payments.

Please note that housing is provided in Tokyo.

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Please charge airfare to the centrally-funded USAID/W travel Card.

Travel on military transport is Authorized -Air, Water and Ground-. On base billeting is authorized. Purchase of BX/PX, fuel and commissary privileges are authorized.

Administrative approval is given for authorized expenses incurred prior to this authorization.

A travel voucher must be submitted within 5 business days following completion of travel.

Receipts are required for all other expenses in excess of \$75.00.

Manassas Travel fees are authorized.

Approver - LISA M SCHAEFER

April 01, 2011 at 10:34 AM

Duluth Travel fees are authorized.

The TQ number in Phoenix is 00011TQ005442.

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Authorization History	Action
01APR11 Fn 08:56AM	Status now New Authorization
01APR11 Fri 08:56AM	Created by LISA M SCHAEFER for MCHAEL C HAY
01APR11 Fri 08:56AM	Arranger LISA M SCHAEFER updated the cabin class to Coach Class
01APR11 Fri 08:57AM	Booked Airfare/Common Carrier rate \$0.00 changed to \$2100.00 by SCHAEFER, LISA M for HAY, MCHAEL C
01APR11 Fri 08:59AM	Submitted to DCHA-OFDA-PS-LEVEL 1 approver CHAN, CAROL by LISA M SCHAEFER for MCHAEL C HAY
01APR11 Fri 08:59AM	Reservation is optional, LISA M SCHAEFER for MCHAEL C HAY sent to approver with no Reservation.
01APR11 Fri 08:59AM	Status changed to: Pending Authorization Approval
01APR11 Fri 09:00AM	SCHAEFER, LISA M unlocked document: No approver specified.
01APR11 Fri 10:23AM	PEYREBRUNE, JOHN C locked document for Approval.
01APR11 Fri 10:23AM	Approved By DCHA-OFDA-PS-LEVEL 1 Approver PEYREBRUNE, JOHN C
01APR11 Fri 10:23AM	Submitted to DCHA-OFDA-TRAVEL SPECIALIST by the System
01APR11 Fn 10:32AM	SCHAEFER, LISA M locked document for Approval.
01APR11 Fri 10:34AM	Approved By DCHA-OFDA-TRAVEL SPECIALIST Approver SCHAEFER, LISA M
01APR11 Fri 10:34AM	Submitted to M-MS-TRAVEL AND TRANSPORTATION DIVISION by the System
01APR11 Fri 11:14AM	JOHNSON, GWENDOLYN locked document for Approval.
01APR11 Fri 12:05PM	Approving Official GWENDOLYN JOHNSON authorized actual expenses for lodging and prescribed M&IE rate - NTE 300% of per diem at TOKYO CITY, JPN
01APR11 Fri 12:05PM	Status changed to: Open Voucher
01APR11 Fri 12:05PM	Approved By M-MS-TRAVEL AND TRANSPORTATION DIVISION Approver JOHNSON, . GWENDOLYN
01APR11 Fri 12:05PM	Agency successfully notified of event: TripAuthorizationApproved for trip 2916282
01APR11 Fri 12:05PM	Obligation status changed to: Pending Obligation
01APR11 Fri 12:05PM	Obligation status changed to: Obligation Accepted
01APR11 Fri 01:43PM	MICHAEL C HAY sent email request to USAID@DULUTHTRAVEL.COM. A copy of the email can be found with attached documents.
01APR11 Fri 01:43PM	Approval Data Sent to Travel Agent via Email
01APR11 Fri 02:26PM	MICHAEL C HAY sent email request to USAID@DULUTHTRAVEL.COM. A copy of the email can be found with attached documents.
01APR11 Fri 02:26PM	Approval Data Sent to Travel Agent via Email

Audit/Approver Information

Action Official Date / Time Date / Time Approved [DCHA-OFDA-PS-LEVEL 1] Date / Time 2011-04-01 11 N N N N N

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Approved [DCHA-OFDA-TRAVEL SPECIALI]	SCHA9300[SCHAEFER,LISA]	2011-04-01	
Approved [M-MS-TRAVEL AND TRANSPORTI	JOHN0664[JOHNSON,GWENDOLYN]	2011-04-01	

From: Sent: To: Cc: Subject: LIA02 Hoc Saturday, April 02, 2011 11:51 AM Shaffer, Mark LIA07 Hoc; LIA03 Hoc; Schwartzman, Jennifer; Jolicoeur, John FW: IAEA Request for Severe Accident Mitigation

Mark,

Per the item below, which we are tracking at the ops center, the IAEA would like to have access to the BWR SAMGs.

• IAEA Request for Severe Accident Mitigation Guidance for a BWR: We need to track down one of these Guidelines and get permission from the BWR Owner's Group to share it with the IAEA. The LT Director put a call in to John Jolicoeur to see if he could get a POC at the BWR Owner's Group.

Per John Jolicoeur, the point of contact to use for IAEA is the BWROG Chairman, Mr. Schiffley II. His contact information is below. We believe you are best placed to talk to the right folks at IAEA and to put them in touch with Mr. Schiffley. However, given the imminence of the Convention on Nuclear Safety Review Meeting, if you would prefer we handle it from headquarters via OIP/Jen Schwartzman, let us know.

Cheers,

Karen

From: ET07 Hoc Sent: Saturday, April 02, 2011 7:59 AM To: LIA02 Hoc Cc: Golla, Joe Subject: IAEA Request for Severe Accident Mitigation

You had asked for info on a POC to discuss sharing BWR SAMGs with IAEA. I did some searching through my blackberry and found the info on the BWROG Chairman. I would say to contact

Frederick P. "Ted" Schiffley, Il Chairman, BWR Owners' Group

Exelon Nuclear Office of NGG Sr VP - Engineering & Tech Srvcs Cornerstone II at Cantera 4300 Winfield Road Warrenville, Illinois 60555 Phone: 630-657-3897 Cell: Fax: 630-657-4328

frederick.schiffley@exeloncorp.com

Let me know if you need additional info.

UUU221

John Jolicoeur Status Officer

•

51. J. V. V.

 From:
 OST02 HOC

 Sent:
 Saturday, April 02, 2011 5:02 PM

 To:
 FOIA Response.hoc Resource; LIA02 Hoc; LIA03 Hoc; PMT01 Hoc; PMT02 Hoc; Hoc, PMT12

 Subject:
 FW: IAEA distributed documents

 Attachments:
 No67E_Parameter_1400_April1.pdf; No67E_Monitoring_Data.pdf; No67E-ConditionsF1NPS_1400_April1.pdf; No67E_info1530_April1_set.pdf;

NISA Press_Release_69_(Japanese)_-_Plant_parameter_(1400).pdf

From: HOO Hoc [mailto:HOO.Hoc@nrc.gov] Sent: Saturday, April 02, 2011 4:47 PM To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC Subject: FW: IAEA distributed documents

From: NITOPS[<u>SMTP:NITOPS@NNSA.DOE.GOV</u>] Sent: Saturday, April 02, 2011 4:46:35 PM To: DL-Policy Working Group; CMHT; HOO Hoc; NARAC; PMT01 Hoc; PMT02 Hoc; Hoc, PMT12 Cc: NITOPS Subject: FW: IAEA distributed documents Auto forwarded by a Rule

Nuclear Incident Team (NIT) Office of Emergency Response (NA-42) National Nuclear Security Administration U.S. Department of Energy <u>nitops@nnsa.doe.gov</u> <u>nit@doe.sgov.gov</u> 202-586-8100

From: Sent: To: Subject: Attachments: OST02 HOC Saturday, April 02, 2011 5:03 PM LIA02 Hoc; LIA03 Hoc; PMT02 Hoc; PMT01 Hoc; Hoc, PMT12 FW: IAEA distributed documents NISA_Press_Release_69_(Japanese).pdf; NISA_Press_Release_66 _(Japanese)_-_Plant_parameters_release.pdf; NISA_Press_Release_66 _(Japanese)_-_Conditions.pdf; No_66_E-Parameter.pdf; No66E_Monitoring_Data.pdf; No66E-Conditions.pdf; No66_info0930_April1(set).pdf; No65_Parameters.pdf; No65 _MonitoringData.pdf; No65_Conditions.pdf; No65_info1500_March31(set).pdf; NISA_ 20110402.pdf

From: HOO Hoc [mailto:HOO.Hoc@nrc.gov] Sent: Saturday, April 02, 2011 4:48 PM To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC Subject: FW: IAEA distributed documents

From: NITOPS[<u>SMTP:NITOPS@NNSA.DOE.GOV]</u> Sent: Saturday, April 02, 2011 4:47:14 PM To: DL-Policy Working Group; CMHT; HOO Hoc; NARAC; PMT01 Hoc; PMT02 Hoc; Hoc, PMT12 Cc: NITOPS Subject: FW: IAEA distributed documents Auto forwarded by a Rule

Nuclear Incident Team (NIT) Office of Emergency Response (NA-42) National Nuclear Security Administration U.S. Department of Energy <u>nitops@nnsa.doe.gov</u> <u>nit@doe.sgov.gov</u> 202-586-8100

From: Kenagy, W David [mailto:KenagyWD@state.gov] Sent: Saturday, April 02, 2011 4:25 PM

To: Kenagy, W David; McClelland, Vince; veronica.rodriguez@nrc.gov; Heinrich, Ann; hoo1@nrc.gov; hoo2@nrc.gov; wch@nrc.gov; decair.sara@epamail.epa.gov; timothy.greten@dhs.gov; maria.marinissen@hhs.gov; DOE HQ EOC; hhs.soc@hhs.gov; james.kish@dhs.gov; hoo.hoc@nrc.gov; brooke.smith@nrc.gov; Zubarev, Jill; Shaffer, Mark R; NITOPS; Skypek, Thomas M; (b)(6) (b)(6) (c)(6) (

	Power Station Major Parameters		rch 31th)		· ·	
Unit No.	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Situation of water injection	Injecting fresh water via the Water Supply Line. Flow rate of injected water : 133 l/min (As of 8:32, March 29th) temporary measuring instrument	Injecting fresh water via the Fire Extinguish Line. Flow rate of injected water :150 ℓ/min (As of 14:00, March 30th) temporary measuring instrument	Injecting fresh water via the Fire Extinguish Line. Flow rate of injected water: 116 l/min (As of 14:39, March 29th) temporary measuring instrument	Under shutdown	Under shutdown	Under shutdown
Reactor water level	Fuel range A : -1,600mm Fuel range B : -1,650mm (As of 12:00, March 31th)	Fuel range A : -1,500mm (As of 12:00, March 31th)	Fuel range A:-1,850mm Fuel range B:-2,250mm (As of 9:40, March 31th)	#2	Shutdown range measurement 2,132mm (As of 14:00, March 31th)	Shutdown range measurement 1,654mm (As of 14:00, March 31th)
Reactor pressure	0.329MPa g(A) 0.506MPa g(B) (As of 12:00, March 31th)	-0.011MPa g (A) -0.011MPa g (B) . (As of 12:00, March 31th)	0.016MPa g (A) -0.092MPa g (C) (As of 9:40, March 31th)	#2	0.007MPa g (As of 14:00, March 31th)	0.003MPa g (As of 14:00, March 31th)
Reactor water temperature	(Impossible collection due to low			#2	47.4°C (As of 14:00, March 31th)	21.4°C (As of 14:00, March 31th)
Reactor Pressure Vessel (RPV) temperature	Feedwater nozzle temperature: 246.1 $^{\circ}$ C Temperature at the bottom head of RPV: 126.1 $^{\circ}$ C (As of 12:00, March 31th)	Feedwater nozzle temperature: 172.4°C Temperature at the bottom head of RPV: #1 (As of 12:00, March 31th)	Feedwater nozzle temperature: 88.6°C (under survey) Temperature at the bottom head of RPV: 114.4°C (As of 9:40, March 31th)	Unit 5,6	ement (fuel) insi the reactor wate	
D/W*1 Pressure, S/C*2 Pressure	D/W: 0.210MPa abs S/C: 0.205MPa abs (As of 12:00, March 31th)	D/W: 0.110MPa abs S/C:Down scale (under survey) (As of 12:00, March 31th)	D/W: 0.1066MPa abs S/C: 0.1755MPa abs (As of 9:40, March 31th)	#2		
CAMS*3	D/W: 4.12×10^{1} Sv/h S/C: 1.72×10^{1} Sv/h (As of 12:00, March 31th)	D/W: 3.79×10^{1} Sv/h S/C: 1.16×10^{0} Sv/h (As of 12:00, March 31th)	D/W: 2.54×10^{1} Sv/h S/C: 1.04×10^{0} Sv/h (As of 9:40, March 31th)	#2		l .
D/W*1 design operating pressure	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	#2		5
D/W*1 maximum operating pressure	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)			1
Spent Fuel Pool water	#1	51.0℃ (As of 12:00, March 31th)	#1	#1	30.6°C (As of 14:00, March 31th)	27.0°C (As of 14:00, March 31th)
FPC skimmer level	4,500mm (As of 12:00, March 31th)	5,600mm (As of 12:00, March 31th)	#1	5,200mm (As of 9:40, March 31th)	#2	1
Power supply	Receiving external power supply	(P/C*4 2C)	Receiving external power supply	(P/C4D)	Receiving ex supply	ternal power

Fukushima Di-ichi Nuclear Power Station Major Parameters of the Plant (As of 14:00, March 31th)

Other information	Unit3: Collecting the data of RPV temperature and continuing survey for transitional situation Unit2: Confirmed the indicated value of S/C Pressure but continuing to survey the transition of condition	Common pool: about 32 °C (As of 8:20, March 30th)	Unit5:SHC*5 mode (From 10:36 March 31th)	Unit6:SHC*5 mode (From 22:06 March 30th)
	Gauge pressure (MPa g) = Absolute pressure (MPa abs) – Atmospheric pressure (Normal atmospheric pressure Absolute pressure (MPa abs) = Gauge pressure (MPa g) + Atmospheric pressure (Normal atmospheric pressure			
*1 D/W : Dry V *2 S/C : Supp	Vell ression Chamber			

Т

- Containment Atmospheric Monitoring System
 Power Center *3 CAMS :
- P/C *4
- *5 SHC : Shutdown Cooling
- Measuring instrument malfunctionExcept from data collection #1
- #2

North side of main office building (approx. 0.5km from Unit 2 in northwest direction)
 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)
 Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)
 Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction)
 Front of Earthquake Isolation Building (approx. 0.5km from Unit 2 in northwest direction)
 South side of main office building
 Main Gate

MC: Monitoring Car TM: Transportable Monitoring post

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98.9	98.1	97.9	97.7	98.7	97.9	97.7	100.8	100.5	99.2	99.6	97.6	99.9	97.6	96.8	96.5	96.5	96.6	96.5	96.7	96.7	96.9	98.1	99.1
N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	. N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
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- 930 - - 930 - - 950 - - 69.7 2.3</td><td>12:00 12:10 12:20 12:30 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.8 96.5 96.5 96.5 96.5 96.5 96.7 98.0 97.6 99.6 97.6 99.0 N.D N.D</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 15:20 15:30 15:40 38:9 98:1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.6 96.5 96.6 96.5 96.7 96.9 98.1 950 - - 940 - - 940 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 69.7 - - 151 - - 151 - - 160.7 - - 162.7 - - 162.7 - - 69.3 <t< td=""></t<></td></t<></td></td>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 ND ND	12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 ND ND <td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.5 96.5 ND <t< td=""><td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.5 96.6 ND ND</td><td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 14:00 14:10 14:20 14:30 14:40 14:50 15:00 98.9 98.1 97.7 98.7 97.3 97.7 100.8 100.5 99.2 99.6 97.6 96.8 96.5 96.5 96.6 96.7 - - 930 - - 930 - - 950 - - 69.7 2.3</td><td>12:00 12:10 12:20 12:30 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.8 96.5 96.5 96.5 96.5 96.5 96.7 98.0 97.6 99.6 97.6 99.0 N.D N.D</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 15:20 15:30 15:40 38:9 98:1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.6 96.5 96.6 96.5 96.7 96.9 98.1 950 - - 940 - - 940 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 69.7 - - 151 - - 151 - - 160.7 - - 162.7 - - 162.7 - - 69.3 <t< td=""></t<></td></t<></td>	12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.5 96.5 ND ND <t< td=""><td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.5 96.6 ND ND</td><td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 14:00 14:10 14:20 14:30 14:40 14:50 15:00 98.9 98.1 97.7 98.7 97.3 97.7 100.8 100.5 99.2 99.6 97.6 96.8 96.5 96.5 96.6 96.7 - - 930 - - 930 - - 950 - - 69.7 2.3</td><td>12:00 12:10 12:20 12:30 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.8 96.5 96.5 96.5 96.5 96.5 96.7 98.0 97.6 99.6 97.6 99.0 N.D N.D</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 15:20 15:30 15:40 38:9 98:1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.6 96.5 96.6 96.5 96.7 96.9 98.1 950 - - 940 - - 940 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 69.7 - - 151 - - 151 - - 160.7 - - 162.7 - - 162.7 - - 69.3 <t< td=""></t<></td></t<>	12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.5 96.6 ND ND	12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 14:00 14:10 14:20 14:30 14:40 14:50 15:00 98.9 98.1 97.7 98.7 97.3 97.7 100.8 100.5 99.2 99.6 97.6 96.8 96.5 96.5 96.6 96.7 - - 930 - - 930 - - 950 - - 69.7 2.3	12:00 12:10 12:20 12:30 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 98.9 98.1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.8 96.5 96.5 96.5 96.5 96.5 96.7 98.0 97.6 99.6 97.6 99.0 N.D N.D	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12:00 12:10 12:20 12:30 12:40 12:50 13:00 13:10 13:20 13:30 13:40 13:50 14:00 14:10 14:20 14:30 14:40 14:50 15:00 15:10 15:20 15:30 15:40 38:9 98:1 97.9 97.7 98.7 97.9 97.7 100.8 100.5 99.2 99.6 97.6 99.9 97.6 96.8 96.5 96.6 96.5 96.6 96.5 96.7 96.9 98.1 950 - - 940 - - 940 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 930 - - 69.7 - - 151 - - 151 - - 160.7 - - 162.7 - - 162.7 - - 69.3 <t< td=""></t<>

March 31th, 2011

Fukushima Dai-ichi Monitoring points

2011/4/1 3:37

① North side of main office building (approx. 0.5km from Unit 2 in northwest direction) 2 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction) ③ Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction) ④ Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction) ⑤ Front of Earthquake Isolation Building (approx. 0.5km from Unit2 in northwest dirction) 6 South side of main office building 🖲 Main Gate

MC: Monitoring Car TM: Transportable Monitoring post

Moni	toring points			•	_								(3)											
Read	ing time	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MOL	Reading(µSv/h)	100.8	100.8	105.4	101.0	100.4	100.3	100.2	100.4	100.3	100.1	100.2	100.1	100.0	100.0	100.0	100.1	100.0	100.1	99.9	100.3	100.1	100.0	100.1	99.9
	neutron	N.D	N.D	N.D	N.D	N.D	•N.D	N.D	N.Ð	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
1 H	6)SMOB(μSv/h)*1	990	-	—	1,000	-	-	990	-		990	-	—	1,000	-	_	990	-	-	990	1	-	990	-	<u> </u>
	⑦MG(μSv/h)*2	154			152	_	_	154			152		-	152	_	-	153	-	-	152	1	-	151	-	<u> </u>
	3)WG(μSv/h)*3	71.5			73.6			72.2			71.9	-		71.3	-	_	72.5	_	_	71.9	-	-	70.5	_	1
-	d direction	NE	SE	S	NE	WNW	NE	NE	NE	NE	E	SSW	SSE	WSW	SSE	ENE	WSW	WNW	S	SW	NE	WSW	WNW	W	NE
wind	speed (m/s)	3.9	0.9	2.8	4.3	1.6	4.0	5.8	5.9	6.0	2.1	0.5	0.5	0.8	0.9	0.9	1.8	2.2	3.6	2.2	4.7	4.3	1.8	0.6	0.3
	*1: SMOB : South Sid	e of Mair	Office	Building																					+
,	*2: MG: Main Gate																		.*						
3	*3: WG:West Gate																								
_																									1
-	itoring points				/								(3)											4
_	ing time	4:00	4:10			4:40	4:50	5:00	5:10	5:20	<u>5:30</u>	5:40	5:50	6:.00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
мс	Reading(µSv/h)	99.9	99.9	99.9	99.9	99.9	99.8	99.7	99.8	99.7	99.6	99.6	99.5	99.4	99.3	99.4	99.4	99.4	99.3	99.3	<u>99.2</u>	99.2	99.3	99.0	<u>99.2</u>
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
	6SMOB(μSv/h)*1	990	-		990	-		990		-	980	-	-	990	-		980		_	990	-	_	980	-	
	⑦MG(μSv/h)*2	152	-		152			150		-	151		-	152		_	152			150			150		<u> </u>
	3WG(μSv/h)*3	70.9	-		71.2	-		71.2		-	70.9			72	_		71.8			72.9			71.4		
	wind direction	WSW	WSW	NE	SSW.	SW	NE	NE	NE	NE	NE	NE	NE	WSW	NE	NE	NE	W	NW	W	W	W	NW	NW	W
<u> </u>	vind speed (m/s)	3.4	0.5	0.7	2.4	0.4	2.4	0.7	4.3	5.6	5.7	5.5	3.9	2.2	3.0	2.1	4.9	1.5	0.7	0.6	0.5	0.9	0.5	0.5	1.0
										·	·											·			
	itoring points												(-		
	ling time	8:00	8:10			8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10		11:30	11:40	11:50
IMCE	Reading(µSv/h)	99.0	99.0	98.9	98.7	98.4	98.4	98.5	98.6	98.6	98.6	98.4	98.7	98.5	98.4	99.9	98.6	100.0	100.9	98.7	98.5	100.6	98.6	98.4	98.3
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.Đ	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N,D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
	6SMOB(μSv/h)*1	980		_	980			970			970	_		970			960	_		960	-		950		
	$\overline{O}MG(\mu Sv/h)*2$	150			150			149			149		_	151		-	160			158		-	159		
Ľ	3WG(μSv/h)*3	72.1			69.6			71			72.9		—	70	-		70.1	-	-	72.4		_	72.5		
	wind direction	N	NNW	W	NE	W	N	N	NW	NW	NW	NW	NNW	NW	WNW	NNE	E	E	E	E	E	E	E	<u> </u>	ENE
Ľ	vind speed (m/s)	0.9	0.7	1.5	1.1	1.6	1.0	0.9	1.2	1.0	0.7	0.7	0.7	0.7	9.0	1.5	1.8	0.5	2.9	3.1	2.9	3.7	3.6	3.3	2.5

March 31th, 2011

Fukushima Dai-ichi

Monitoring points

North side of main office building (approx. 0.5km from Unit 2 in northwest direction)
 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)
 Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)
 Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction)
 Front of Earthquake Isolation Building (approx. 0.5km from Unit 2 in northwest direction)
 South side of main office building
 Main Gate

Monitoring points

Fukushima Dai~ichi

MC: Monitoring Car TM: Transportable Monitoring post

····																						•		
Monitoring points												(3												1
Reading time	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50
MC Reading(μ Sv/h)	109.2	109.0	109.3	109.2	109.1	108.9	109.0	108.8	108.8	108.8	108.2	108.3	108.2	108.1	108.2	108.1	108.1	107.8	107.7	107.6	107.5	107.7	107.4	107.3
neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D ·	N.D	N.D	N.D	N.D						
	1,050		<u> </u>	1,050		-	1,040	_	_	1,050		· —	1,050		-	1,040	-	·	1,050	-	-	1,030	-	<u> </u>
TM ⑦MG(μSv/h)*2	167			168			165	_=		165		_	164		-	163		_	163	-		162	-	<u> </u>
③WG(μSv/h)*3	76.5			73.5		_	76.6			73. 9			75.8			75.8	-	-	74.7	-	-	73.4		
wind direction	ESE	ESE	E	E	ESE	E	ENE	SE	E	E	E	E	E	Ê	ESE	E	E	SE	E	E	S	SSE	SE	SE
wind speed (m/s)	2.8	2.4	2.9	3.2	2.8	2.5	2.1	2.3	2.5	2.9	3.0	3.4	3.4	3.1	2.2	2.4	2.6	2.4	2.4	1.3	1.0	1.1	1.0	:1.2
*1: SMOB : South Side	e of Mair	o Office I	Building																					
*2: MG: Main Gate																								
*3: WG:West Gate																								1
<u> </u>																								
Monitoring points												()			_								1
Reading time	16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
Reading(μ Sv/h)	107.3	107.1	107.1	106.9	106.8	107:7	106.7	106.8	106.8	106.7	106.4	106.5	106.7	106.6	106.5	106.3	106.2	106.3	106.1	105.9	105.8	105.5	105.3	106.4
neutron	N.D	N.D	N.D	N.D	ND	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
⑥SMOB(μ Sv/h)*1	1,010	-	—	1,020	ł	-	1,020		_	1,030	-	·	1,060	—		1,060	-		1,050	-	-	1,050	-	-
TM \bigcirc MG(μ Sv/h)*2	162	-		163	-	—	159		-	160	-	-	159	-		159	1	—	158	-		156	-	
$(3)WG(\mu Sv/h)*3$	75.6	_	-	73.7	-	-	72.9			74.2		-	73.7		-	74.2	I	-	74.9	-	_	75.1	—	<u> </u>
wind direction	E	ESE	S	S	SE	WSW	SW	SSW	E	E	E	ESE	ESE	Е	SE	SE	E	ESE	SW	SW	WSW	NW	W	NW
wind speed (m/s)	1.2	1.2	1.2	1.1	1.2	0.7	0.7	0.7	0.8	1.3	1.0	1.0	1.0	1.3	1.5	1.0	0.8	0.9	0.5	0.4	0.6	0.6	0.9	0.8
																		_						
Monitoring points												(3)						_					
Reading time	20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
Reading(μ Sv/h)	105.0	104.5	104.0	103.4	103.2	102.9	102.8	102.7	102.6	102.2	101.9	102.1	101.9	101.8	101.6	101.8	101.5	101.5	101.3	101.6	101.1	100.9	100.7	100.8
neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
⑥SMOB(μ Sv/h)*1	1,010	-	. —	1,000	-	_	1,000	-	-	1,000	- 1	-	1,000	-	·	990	-		990	-	-	990	-	
TM ⑦MG(μSv/h)*2	157	-	_	155	1	-	156	-	-	154	-	-	153	-	-	153	-	-	157	-	-	151	-	-
$(3)WG(\mu Sv/h)*3$	74.7	+	-	73.8	-		71.8	-	_	73	-	-	73.2		-	72.7	-	-	72.8	-	-	73.4		-
							NW	NNW	NNE	NE	SE	SE	N	SE	NE	E	W	NE	ESE	W	W	NE	w	E
wind direction	W	NW_	NW	NNW	NW	NE	NW	ININAA	ININE	NE	OC I	JE	IN	SE	INC	E I	ŶŶ	INC	LOL		<u> </u>		¥¥ [L L

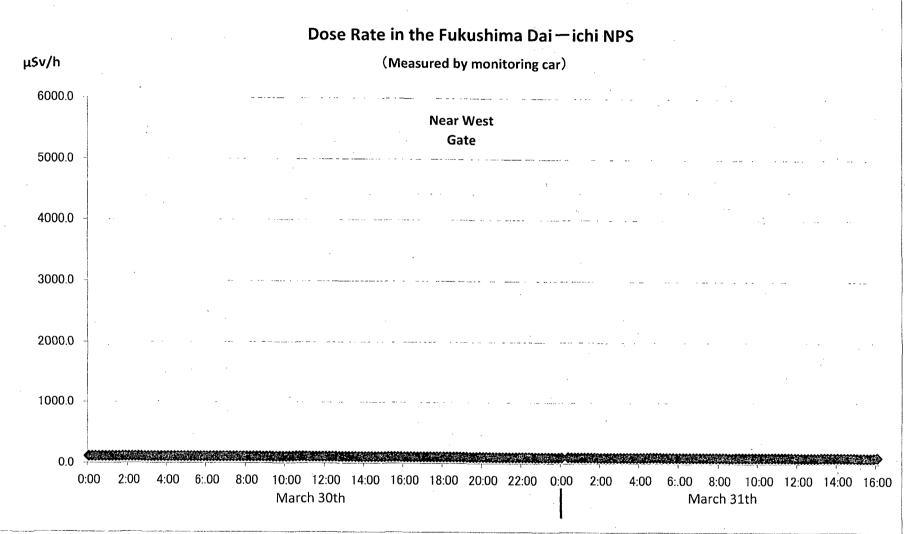
March 30th, 2011

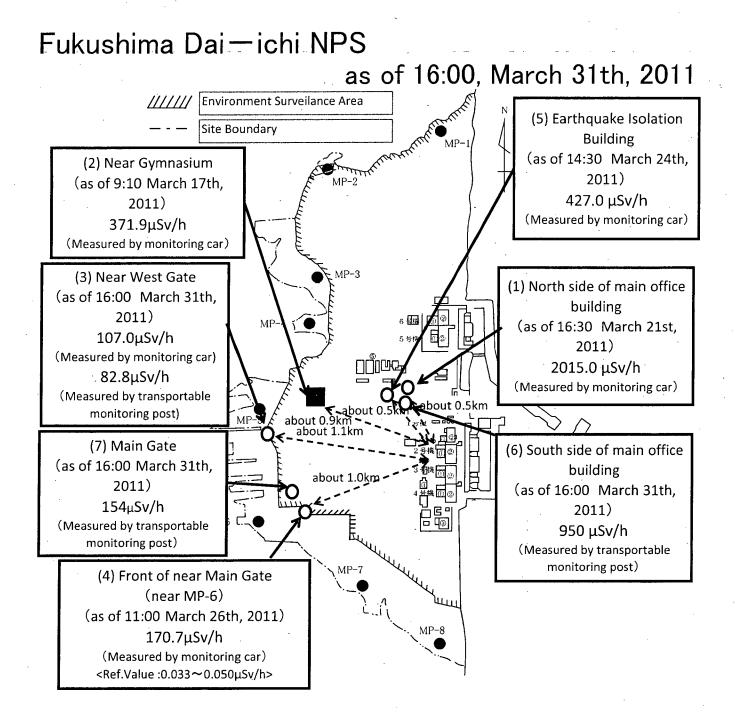
North side of main office building (approx. 0.5km from Unit 2 in northwest direction)
 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)
 Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)
 Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction)
 Front of Earthquake Isolation Building (approx. 0.5km from Unit 2 in northwest direction)
 South side of main office building
 Main Gate
 Mc: Monitoring Car TM: Transportable Monitoring post

								· · ·																
Monitoring points										-		(3)											
Reading time	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MC Reading(μ Sv/h)	112.5	112.4	112.1	111.8	111.8	111.9	111.8	111.7	111.6	111.4	_111.2	111.2	111.1	111.1	110.9	110.8	110.8	110.7	110.7.	111.3	111.3	111.1	111.1	111.0
neutron	N.D_	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
⑥SMOB(μSv/h)*1	1,090	_	-	1,100	-		1,100	-		1,090	— ·	-	1,090	_	-	1,080	-	-	1,080	-		1,080	_	-
TM ⑦MG(μSv/h)*2	168			167			168			166	—	-	167	-	-	167	-	-	166	-	- 1	169	-	-
③WG(μSv/h)*3	80.1			82.2			82.3			81.2		-	81.1	-	_	80.3	-	_	79.6	-	- ·	80	-	<u> </u>
wind direction	NE	NE	E	NE	E	NW	NNW	NW	NW	NW	SW	S	S	SSE	SSE	WSW	NNW_	W	NW	W	N	NW	. W	NW
wind speed (m/s)	0.3	0.5	0.4	0.4	0.4	0.8	0.8	1.1	1.0	0.9	0.8	0.9	0.9	0.5	0.5	0.4	0.5	0.2	0.3	0.3	0.4	0.3	0.3	0.7
*1: SMOB : South Sid	le of Main	n Office E	Building																					
*2: MG: Main Gate												•												
*3: WG:West Gate																								
											_													
Monitoring points												()											1
Reading time	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:.00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
Reading(μ Sv/h)	110.9	110.8	110.8	110.8	110.6	110.6	110.6	110.6	110.4	110.3	110.2	110.1	110.2	110.3	110.1	109.9	109.8	110.0	110.0	109.8	109.9	109.9	109.7	109.8
neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
⑥SMOB(μ Sv/h)*1	1.080	—	_	1,080			1,080			1,080	-		1,080	-	. –	1,070	-	—	1,070		-	1,070	-	
TM ⑦MG(μSv/h)*2	165	—	_	167	-		166	—		167	-		163		-	166	- 1		165	·	—	167	_	
$(3)WG(\mu Sv/h)*3$	82.4		—	80.7	-		80.1			80.7			80.1	-		78.3			78.8			78.6	-	_
wind direction	W	W	WSW	SW	SW	WSW	NNW	W	WSW	W	_NNE	WNW	ENE	W	WSW	WSW	WNW_	NW	WNW	WSW	W	WNW	NW	NNW
wind speed (m/s)	0.6	0.6	0.6	0.7	0.7	0.7	0.5	0.5	0.8	0.6	0.4	0.4	0.4	0.3	0.3	0.5	0.6	0.5	0.5	0.8	0.6	0.5	0.6	0.6
Monitoring points												(;	3)											
Reading time	8:00	8:10	⁻ 8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
Reading(μ Sv/h)	109.8	109.7	109.6	109.4	109.5	109.6	109.3	109.5	109.7	110.6	109.2	109.1	109.3	113.1	112.1	114.3	112.4	116.0	111.5	109.9	109.7	109.5	109.6	109.6
neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
⑥SMOB(μ Sv/h)*1	1,060	—		1,060			1,050			1,040	_		1,030	1		1,030	_	-	1,050	-	-	1,050		_
TM ⑦MG(μSv/h)*2	166	·	_	165		-	169	-		187	_	-	188	. –	_	172			164	-		163		
③WG(μ Sv/h)*3	79.1			79.1	. —		78.2			78.5		1	79.5			82.7	-		79.0	+		76.5		<u> </u>
wind direction	WNW	NE	N	ENE	E	ESE	E	E	E	E	E	E	E	E	E	E	Е	E	E	ESÉ	ESE	ESE	ESE	ESE
wind speed (m/s)	0.6	0.6	0.8	1.4	1.6	2.2	2.2	2.3	2.2	2.8	2.8	2.7	2.3	2.7	2.9	2.6	2.6	2.5	2.6	2.2	2.8	2.1	2.9	2.8

March 30th, 2011

Fukushima Dai-ichi Monitoring points





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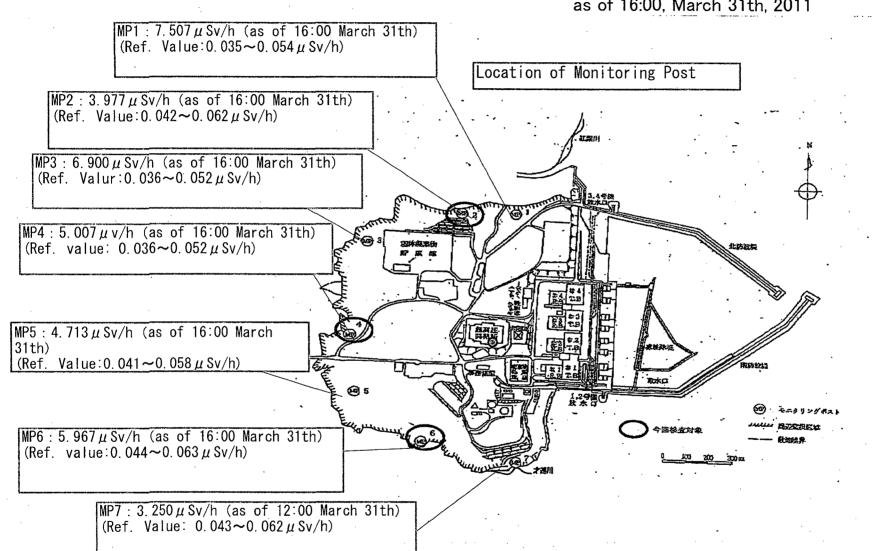
March 31th, 2011																								
monitoring point	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50
MP1(μ Sv/h)	7.600	7.603	7.630	7.647	7.610	7.607	7.603	7.590	7.590	7.610	7.560	7.587	7.577	7.563	7.503	7.503	7.497	7.497	7.493	7.510	7.517	7.517	7.507	7.510
MP2(μ Sv/h)	4.013	4.027	4.033	4.023	4.017	3.997	4.020	4.023	4.017	4.020	4.017	4.010	4.007	4.003	3.970	3.970	3.977	3.977	3.967	3.973	3.990	3.960	3.977	3.980
MP3(μ Sv/h)	6.977	6.993	7.020	6.957	6.957	6.967	6.957	6.967	6.980	6.970	6.950	6.947	6.943	6.953	6.890	6.890	6.897	6.893	6.907	6.860	6.910	6.863	6.890	6.893
MP4(μ Sv/h)	5.390	5.397	5.417	5.417	5.393	5.403	5.397	5.410	5.403	5.393	5.390	5.380	5.387	5.407	5.363	5.363	5.350	5.343	5.007	4.993	4.990	5.000	5.023	4.983
MP5(μ Sv/h)	4.793	4.807	4.813	4.813	4.813	4.813	4.760	4.760	4.713	4.760	4.760	4.713	4.713	4.713	4.713	4.713	4.7.13	4.713	4.713	4.713	4.713	4.713	4.713	4.713
MP6(μ Sv/h)	6.017	6.037	6.043	6.010	6.037	6.007	6.050	6.010	6.007	6.037	6.030	6.000	6.033	6.013	5.960	5.960	5.960	5.967	5.947	5.950	5.970	5.993	5.950	5.960
MP7(μ Sv/h)	3.250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
wind direction	E	ENE	ENE	NE	NE	NE	NE	NE	NE	ENE	ESE	ESE	ENE	E	NE	NE	NW	NW	WNW	NNW	NW	NNW	NNW	N
wind speed (m/s)	4.0	4.6	6.0	5.1	3.0	3.5	3.9	2.9	3.7	2.7	2.0	1.7	3.2	2.6	6.0	6.0	5.9	6.9	9.9	7.8	5.3	5.2	4.6	3.2
																							I.	
March 31th, 2011																								
monitoring point	16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
MP1(μ Sv/h)	7.507																						1	
MP2(μ Sv/h)	3.977																						•	
MP3(μ Sv/h)	6.900																							
MP4(μ Sv/h)	5.007																	,						
MP5(μ Sv/h)	4.713																							
MP6(μ Sv/h)	5.967																							
$MP7(\mu Sv/h)$	ND																	- · ·						
wind direction	ENE																							
wind speed (m/s)	2.5																							
March 31th, 2011																								
monitoring point	20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	<u>21:50</u>	. 22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
MP1(μ Sv/h)																							•.	
MP2(μ Sv/h)								•															I	
$MP3(\mu Sv/h)$							L	· · ·													l		1	
$MP4(\mu Sv/h)$																							1	
$MP5(\mu Sv/h)$																							1	
$MP6(\mu Sv/h)$							l							<u> </u>		L		L			ŀ	<u> </u>	1	
MP7(μ Sv/h)																			· · · · · ·				,	
wind direction																								
wind speed (m/s)																								

March 31th, 2011																								
monitoring point	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MP1(μ Sv/h)	7.780	7.757	7.757	7.750	7.733	7.750	7.690	7.697	7.713	7.680	7.657	7.657	7.653	7.667	7.680	7.677	7.643	7.677	7.647	7.640	7.623	7.623	7.593	7.607
MP2(μ Sv/h)	4.113	4.097	4.097	4.103	4.067	4.067	4.073	4.040	4.050	4.067	4.043	4.030	4.027	4.033	4.033	4.037	4.040	4.047	4.017	4.027	4.037	4.030	4.013	4.017
MP3(μ Sv/h)	7.203	7.193	7.173	7.203	7.140	7.157	7.140	7.120	7.140	7.157	7.123	7.117	7.127	7.113	7.113	7.123	7.130	7.143	7.107	7.113	7.083	7.060	7.070	7.077
MP4(μ Sv/h)	5.623	5.537	5.557	5.543	5.527	5.527	5.510	5.510	5.530	5.520	. 5.517	5.507	5.510	5.493	5.507	5.510	5.487	5.517	5.527	5.453	5.473	5.487	5.470	5.477
MP5(μ Sv/h)	4.960	4.913	4.913	4.913	4.913	4.907	4.907	4.913	4.913	4.873	4.853	4.907	4.867	4.893	4.860	4.913	4.913	4.907	4.907	4.873	4.860	4.840	4.853	4.867
MP6(μ Sv/h)	6.143	6.120	6.120	6.143	6.120	6.113	6.123	6.097	6.093	6.117	6.073	6.120	6.080	6.073	6.073	6.080	6.100	6.090	6.060	6.070	6.067	6.077	6.057	6.070
MP7(μ Sv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
wind direction	NNW	NNW	N	NNE	NNE	NNE	N	WNW	NW	NNW	NE	NNE	ENE	ENE	Е	WSW	ESE	SE	SSE	SSE	SW	SSW	SSW	SSE
wind speed (m/s)	4.4	3.1	2.5	2.5	1.0	0.7	0.2	0.2	0.7	0.2	1.1	1.2	0.8	0.4	0.4	0.0	1.8	2.2	1.3	1.4	1.5	1.4	1.6	0.5
March 31th, 2011																								
monitoring point	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
MP1(μSv/h)	7.630	7.590	7.613	7.587	7.580	7.577	7.583	7.577	7.580	7.580	7.560	7.543	7.543	7.557	7.573	7.530	7.540	7.537	7.527	7.533	7.563	7.527	7.553	7.513
MP2(μ Sv/h)	4.030	4.023	3.993	4.000	3.987	3.973	4.023	4.003	4.000	3.993	4.000	3.987	3.993	3.990	4.000	3.983	3.987	3.970	3.987	3.980	3.987	3.983	3.987	3.960
MP3(μ Sv/h)	7.057	7.083	7.050	7.063	7.073	7.077	7.040	7.063	7.037	7.067	7.047	7.027	7.003	7.040	7.053	7.050	7.043	7.050	6.997	7.010	7.037	7.027	6.987	7.033
MP4(μ Sv/h)	5.473	5.467	5.477	5.490	5.483	5.483	5.463	5.460	5.473	5.443	5.453	5.457	5.467	5.440	5.453	5.447	5.437	5.457	5.447	5.427	5.423	5.437	5.453	5.437
MP5(μ Sv/h)	4.900	4.820	4.853	4.900	4.813	4.807	4.813	4.813	4.807	4.813	4.820	4.827	4.807	4.807	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813
MP6(μ Sv/h)	6.070	6.060	6.057	6.063	6.063	6.047	6.050	6.047	6.033	6.023	6.037	6.033	6.060	6.023	6.003	6.033	6.030	6.033	6.020	6.023	6.053	6.027	6.010	6.047
MP7(μ Sv/h)	ND	ND	. ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND_										
wind direction	SE	S	S	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW_	SW	WSW	WSW	WSW	W	W	WNW
wind speed (m/s)	1.4	2.0	. 1.4	1.6	1.6	1.5	2.1	2.2	2.6	3.4	4.0	2.8	3.6	1.3	1.9	2.0	1.0	1.0	0.9	1.9	2.9	3.0	4.7	4.7
March 31th, 2011		·····		-																				
monitoring point	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
MP1(μ Sv/h)	7.517	7.530	7.540	7.537	7.530	7.513	7.510	7.500	7.527	7.497	7.540	7.503	7.487	7.493	7.513	7.517	7.563	7.580	7.507	7.543	7.590	7.493	7.503	7.503
- MP2(μSv/h) ·	3.983	3.993	3.970	3.990	3.970	3.953	3.963	3.967	3.973	3.963	3.963	3.980	3.970	3.960	3.973	4.003	4.050	4.023	3.993	3.977	4.023	3.983	3.960	3.983
MP3(μ Sv/h)	7.000	7.010	7.000	7.013	6.973	6.997	7.003	7.010	6.987	6.983	6.980	6.973	6.993	7.000	7.003	6.983	7.010	7.030	7.000	7.003	7.050	6.990	6.980	6.947
MP4(μSv/h)	5.427	5.410	5.423	5.427	5.433	5.440	5.397	5.440	5.430	5.413	5.433	5.410	5.423	5.403	5.410	5.417	5.453	5.470	5.417	5.413	5.443	5.413	5.403	5.423
MP5(μ Sv/h)	4.813	4.807	4.813	4.807	4.807	4.807	4.807	4.760	4.807	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.807	4.813	4.807	4.813	4.767
MP6(μ Sv/h)	6.020	6.007	6.040	6.043	6.027	6.010	6.003	6.027	6.020	6.013	6.020	6.017	6.000	6.023	6.003	6.063	6.067	6.050	6.070	6.047	6.060	6.027	6.017	6.030
MP7(μSv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
wind direction	W ·	WNW	WNW	NNW	N	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	E	SSW
wind speed (m/s)	3.5	2.3	4.4	4.5	5.8	5.2	5.2	4.7	2.5	2.5	3.0	2.7	2.5	3.0	3.0	3.1	4.1	4.2	5.4	5.0	5.0	5.9	6.1	1.7

March 30th, 2011																								
monitoring point	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50
MP1(μ Sv/h)	8.227	8.260	8.110	8.067	8.060	8.053	8.070	8.043	8.050	8.047	8.000	8.013	8.043	8.017	8.007	7.997	8.013	7.997	7.983	7.990	7.983	7.963	7.970	7.933
MP2(μ Sv/h)	4.457	4.533	4.360	4.323	4.333	4.310	4.303	4.303	4.303	4.317	4.300	4.277	4.287	4,267	4.280	4.277	4.273	4.273	4.257	4.257	4.257	4.240	4.223	4.247
MP3(µSv/h)	7.697	7.790	7.610	7.597	7.587	7.590	7.610	7.593	7.560	7.553	7.550	7.533	7.553	7.530	7.543	7.490	7.543	7.503	7.480	7.483	7.467	7.487	7.470	7.473
MP4(μ Sv/h)	6.103	6.047	5.887	5.897	5.837	5.890	5.837	5.867	5.823	5.847	5.840	5.843	5.807	5.833	5.827	5.787	5.800	5.810	5.810	5,790	5.783	5.763	5.790	5.753
MP5(μ Sv/h)	5.493	5.493	5.273	5.300	5.260	5.253	5.207	5.207	5.200	5.207	5.207	5.207	5.207	5.207	5.207	5.207	5.207	5.207	5.207	5.113	5.160	5.200	5.207	5.160
MP6(µSv/h)	6.897	6.783	6.623	6.587	6.567	6.607	6.577	6.560	6.560	6.540	6.540	6.537	6.517	6.527	6.507	6.510	6.463	6.483	6.490	6.470	6.490	6.480	6.443	6.453
MP7(μ Sv/h)	3.750	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	SE	SSE	SE	SE	SSE	SE	ESE	ESE	SE	SE	ESE	SE	SE	SE	ESE	SSW	SSW	SW	NNE	SE	NE	NW	W.	SSE
wind speed (m/s)	2.0	1.9	1.1	2.2	1.9	2.4	2.8	1.2	1.1	2.7	2.1	1.4	0.6	1.1	0.8	2.0	0.8	0.5	0.0	0.4	1.3	0.7	0:1	0.7
																							1	
March 30th, 2011						· ·					•													
monitoring point	16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17 <u>:3</u> 0	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
MP1(μ Sv/h)	7.950	7.927	7.953	7.907	7.923	7.920	7.920	7.907	7.923	7.890	7.890	7.890	7.877	7.877	7.850	7.847	7.870	7.863	7.850	7.847	7.830	7.830	7.807	7.813
MP2(μ Sv/h)	4.247	4.243	4.217	4.207	4.217	4.243	4.233	4.217	4.210	4.233	4.210	4.200	4.200	4.203	4.190	4.187	4:217	4.193	4.190	4.170	4.187	4.143	4.147	4.130
MP3(μ Sv/h)	7.450	7.453	7.437	7.460	7.437	7.470	7.430	7.437	7.427	7.427	7.423	7.397	7.390	7.387	7.387	7.377	7.400	7.393	7.363	7.360	7.370	7.347	7.303	7.293
MP4(μ Sv/h)	5.753	5.760	5.763	5.750	5.767	5.737	5.727	5.727	5.717	5.740	5.720	5.737	5.743	5.710	5.707	5.697	5.703	5.717	5.690	5.710	5.683	5.677	5.627	5.637
MP5(μ Sv/h)	5.160	5.200	5.147	5.120	5.160	5.153	5.153	5.113	5.107	5.107	5.107	5.107	5.107	5.107	5.107	5.107	5.107	5.060	5.107	5.107	5.107	5.067	5.007	5.007
MP6(μ Sv/h)	6.463	6.450	6.423	6.457	6.430	6.447	6.443	6.443	6.400	6.380	6.397	6.400	6.380	6.390	6.373	6.357	6.383	6.353	6.340	6.327	6.350	6.337	6.307	6.290
MP7(μSv/h)	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND.	ND
wind direction	SSE	SSW	S	S	SW	SW_	SSW	SW	SE	SSE	S	SW	WSW	SSW	SSE	SW	SSE	SSE	SE	ESE	NE	S	ESE	ESE
wind speed (m/s)	1.4	1.9	2.2	1.4	1.5	1.6	1.6	0.8	0.8	2.1	2.3	0.6	1.4	1.1	0.7	2.3	1.5	1.4	0.8	0.2	0.1	0.5	0.6	0.7
March 30th, 2011			1																					
monitoring point	20:00	20:10	**	<u> </u>	20:40			21:10							22:20	ب سی ا	22:40	22:50			23:20		23:40	23:50
$MP1(\mu Sv/h)$	7.780	7.783	7.743	7.767	7.763	7.770	7.750	7.703	7.810	7.770	7.780	7.710	7.703	7.683	7.730	7.910	8.353	8.047	7.770	7.760	7.743	7.727	7.723	7.747
$\frac{MP2(\mu Sv/h)}{MP2(\mu Sv/h)}$	4.130	4.127	4.107	4.087	4.120	4.077	4.087	4.077	4.113	4.113	4.103	4.077	4.053	4.060	4.040	4.130	4.400	4.377	4.087	4.063	4.080	4.087	4.070	4.097
$\frac{MP3(\mu Sv/h)}{MP4(\mu Su/h)}$	7.297	7.303	7.317	7.300	7.307	7.287	7.237	7.237	7.267	7.263	7.260	7.180	·7.203	7.213	7.200	7.167	7.243	7.350	7.283	7.180	7.173	7.183	7.210	7.223
$MP4(\mu Sv/h)$	5.623	5.627	5.627	5.633	5.627	5.613	5.620	5.573	5.577	5.580	5.620	5.580	5.547	5.530	5.513	5.547	5.667	5.723	5.647	5.573	5.547	5.527	5.550	
$MP5(\mu Sv/h)$	5.007	5.007	5.013	5.007	5.007	5.007	5.007	4.913	4.907	4.960	4.960	4.907	4.907	4.913	4.913	4.913	5.007	5.107	5.077	4.907	4.913	4.907	4.913	4.967
$\frac{MP6(\mu Sv/h)}{MD7(\mu Sv/h)}$	6.278	6.297	6.263	6.270	6.263	6.237	· 6.203	6.197	6.167	6.210	6.177	6.183	6.147	6.130	6.140	6.133	6.337	6.333	6.227	6.167	6.153	6.140	6.150	6.117
MP7(μ Sv/h)	ND	ND	ND	ND	ND	-ND	ND	ND NNE	ND	ND		ND	ND	ND N	ND	ND	ND	ND NNE	ND NNE	ND NNE	ND NNE	ND NNE	ND N	ND N
wind direction	NE 1.3	NNE	N	NNW	NNW 4.9	N 5.4	N 4.5	5.3	<u>N</u> 3.7	N 4.7	NNE 4.3	N	N 4.4	N 3.6	N 3.1	N 	N 3.0	4.1	4.1	NNE 3.9	3.6	3.5	4.9	<u>4.7</u>
wind speed (m/s)	1.3	2.9	4.1	4.6	4.9	5.4	4.5	5.3	3.7	4./	4.3	4.5	4.4	3.6	3,1	3.2	3.0	4.1	4.1	3.9	3.0	3.5	4,9	4./

March 30th, 2011																								
monitoring point	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MP1(μ Sv/h)	8.197	8.190	8.177	8.410	8.273	8.270	8.910	8.427	8.307	8.353	8.320	8.290	8.307	8.330	8.403	8.280	8.290	8.317	8.280	8.303	8.347	8.357	8.487	8.350
MP2(μ Sv/h)	4.407	4.390	4.387	4.480	4.407	4.457	4.920	4.650	4.550	4.513	4.463	4.477	4.463	4.497	4.557	4.443	4.413	4.427	4.440	4.443	4.457	4.533	4.613	4.630
MP3(μ Sv/h)	7.767	7.760	7.737	7.760	7.783	7.787	8.133	7.937	7.883	7.880	7.803	7.810	7.823	7.840	7.823	7.770	7.730	7.757	7.770	7.737	7.740	7.740	7.813	7.840
MP4(μ Sv/h)	5.957	5.963	5.970	5.987	5.963	5.967	6.130	6.347	6.197	6.097	6.087	6.080	6.117	6.140	6.100	5.997	5.993	5.980	5.953	6.007	5.977	6.003	6.083	6.143
MP5(μ Sv/h)	5.407	5.407	5.400	5.353	5.400	5.400	5.420	5.887	5.493	5.500	5.493	5.500	5.593	5.687	5.500	5.400	5.400	5.400	5.400	5.400	5.480	5.493	5.493	5.593
MP6(μ Sv/h)	6.560	6.567	6.567	6.573	6.647	6.623	6.723	6.923	6.790	6.743	6.743	6.737	6.787	6.740 _.	6.667	6.583	6.597	6.573	6.587	6.593	6.597	6.620	6.630	6.687
MP7(μ Sv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	WNW	WNW	WNW	NW	N	NNW	NNW	NNE	NE	NNE	NNE	NNE	NNW	SW	WSW	SW	WSW	SW	SSW	S	SSW	S	SSE	SE
wind speed (m/s)	6.0	7.2	7.6	2.9	4.5	3.0	1.8	3.2	2.5	2.1	2.6	1.6	0.1	0.8	1.4	2.7	. 3.0	3.0	1.8	1.3	1.4	1.5	3.2	2.7
																							1	
March 30th, 2011																							<u>` </u>	
monitoring point	4:00	<u>4:10</u>	4:20	4:30		4:50	5:00	5:10	5:20	·5:30	5:40	5:50		6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
$MP1(\mu Sv/h)$	8.343	8.437	8.333	8.247	8.163	8.160	8.180	8.157	8.160	8.157	8.147	8.160	8.137	´ 8.157	8.160	8.147	8.133	8.097	8.147	8.147	8.140	8.150	8.207	8.117
$MP2(\mu Sv/h)$	4.550	4.653	4.503	4.377	4.353	4.343	4.363	4.343	4.357	4.357	4.343	4.343	4.343	4.333	4.343	4.363	4.350	4.343	4.370	4.370	4.363	4.390	4,430	4.407
MP3(μ Sv/h)	7.797	7.813	7.747	7.663	7.683	7.643	7.647	7.653	7.680	7.673	7.663	7.640	7.667	7.633	7.647	.7.640	7.647	7.633	7.663	7.657	7.647	7.683	7.723	7.690
MP4(μ Sv/h)	6.147	6.020	5.950	5.920	5.917	5.920	5.930	5.930	5.897	5.903	5.910	5.930	5.927	5.870	5.890	5.903	5.923	5.880	5.930	5.883	5.893	5.927	5.927	5.943
MP5(μ Sv/h)	5.493	5.400	5.347	5.307	5.387	5.393	5.333	5.347	5.307	5.300	5.300	5.313	5.333	5.300	5.307	5.300	5.307	5.307	5.300	5.300	5.307	5.307	5.347	5.313
$MP6(\mu Sv/h)$	6.637	6.567	6.543	6.530	6.503	6.510	6.510	6.520	6.513	6.490	6.477	6.487	6.487	6.480	6.490	6.467	6.500	6.470	6.480	6.483	6.480	6.510	6.520	6.497
MP7(μSv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	ESE	SE	SE	S	S	S	SSW	SE	ESE	ESE	E	E	ENE	ENE	NE	NNE	NW	N	NNE	WSW	SW	NE	NE	NE
wind speed (m/s)	1.5	1.0	0.8	3.0	2.2	1.6	2.3	1.7	1.6	1.3	1.4	1.4	1.1	0.8	0.8	0.6	0.5	0.4	0.3	0.3	0.4	0.5	1.0	0.7
March 30th, 2011				•																				
monitoring point	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
MP1(μ Sv/h)	8,160	8.137	8.130	8.400	8.423	8.553	8.460	8.247	8.377	8.510	8.420	8.353	8.360	8.350	8.400	8.443	8.190	8.147	8.153	8.147	8.153	8.150	8.157	8.147
MP2(μ Sv/h)	4.377	4.360	4.373	4.630	4.637	4.837	4.910	4.447	4.550	4.680	4.703	4.553	4.570	4.557	4.627	4.653	4.417	4.377	4.353	4.353	4.357	4.353	4.367	4.387
MP3(μ Sv/h)	7.687	7.673	7.633	7.787	7.817	8.117	8.267	7.940	7.773	7.830	7.990	7.800	7.823	7.770	7.870	7.857	7.843	7.710	7.733	7.710	7.667	7.627	7.643	7.647
MP4(μ Sv/h)	5.943	5.907	5.857	5.913	5.983	6.287	6.437	6.083	5.937	5.990	6.080	6.043	6.087	6.017	6.080	6.177	6.193	6.110	6.030	5.983	6.053	5.927	5.960	5.977
MP5(μ Sv/h)	5.320	5.300	5.307	5.307	5.367	5.693	5.787	5.593	5.400	5.500	5.400	5.447	5.453	5.400	5.513	5.687	5.693	5.540	5.400	5.307	5.400	5.307	5.300	5.400
$MP6(\mu Sv/h)$	6.523	6.500	6.523	6.493	6.530	6.647	6.743	6.567	6.570	6.670	6.687	6.683	6.770	6.713	6.777	6.887	6.977	6.837	6.780	6.750	6.733	6.630	6.633	6.740
MP7(µSv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	ENE	ENÉ	NE	NNE	NE	ENE	NE	ENE	E	E ·	E	E	E	E	E	E	ESE	SE	SE	SE	SE	SE	SE	SE
wind speed (m/s)	1.4	1.5	1.3	1.4	1.6	2.3	2.0	2.2	0.7	3.8	1.2	1.3	2.0	3.8	3.5	3.7	3.0	2.4	2.7	2.2	2.2	2.5	2.6	2.0

Fukushima Dai-ni NPS



as of 16:00, March 31th, 2011

Results of envirinmental monitoring at each NPSs etc.

Range of normal average value	. Company	NPS						March 30	th, 2011					
	Company	NI 3	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
0.023~0.027	Hokkaido Electric Power Co.	Tomari NPS	0.024	0.025	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
0.024~0.060	Tohoku Electric Power Co.	Onagawa NPS	0.59	0.59	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.57	0.57
0.012~0.060	Tonoka Electric Power Co.	Higashidori NPS	0.017	0.017	0.017	0.018	0.017	0.017	0.017	0.017	0.016	0.017	0.017	0.017
0.033~0.050		Fukushima Dai~ichi [%]	109.2	109.0	108.2	107.7	107.3	106.7	106.7	106.1	105.0	102.8	101.9	101.3
0.036~0.052	Tokyo Electric Power Co.	Fukushima Dai-ni	7.697	7.610	7.553	7.480	7.450	7.430	7.390	7.363	7.297	7.237	7.203	7.283
0.011~0.159		Kashiwazaki kariwa NPS	0.066	0.066	0.065	0.066	0.068	0.069	0.073	0.072	0.067	0.066	0.064	0.066
0.036~0.053	Japan Atomic Power Co.	Tokai Dai-ni NPS	0.651	0.646	0.641	0.635	0.635	0.637	0.634	0.634	0.623	0.618	0.621	0.617
0.039~0.110	Japan Atomic Power Co.	Tsuruga NPS	0.073	0.073	0.073	0.072	0.074	0.074	0.074	0.074	0.073	0.074	0.075	0.073
0.064~0.108	Chubu Electric Power Co.	Hamaoka NPS	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
0.0207~0.132	Hokuriku Electric Power Co.	Shika NPS	0.034	0.041	0.036	0.033	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.033
0.028~0.130	Chugoku Electric Power Co.	Shimane NPS	0.030	0.030	0.030	0.030	0.029	0.030	0.031	0.029	0.029	0.030	0.030	0.030
0.070 <u>~0</u> .077		Mihama NPS	0.073	0.073	0.072	0.074	0.072	0.073	0.073	0.073	0.073	0.074	0.072	0.072
0.045~0.047	Kansai Electric Power Co.	Takahama NPS	0.045	0.044	0.044	0.044	0.043	0.042	0.043	0.042	0.043	0.043	0.043	0.043
0.036~0.040		Ooi NPS	0.035	0.035	0.035	0.034	0.034	0.035	0.035	0.035	0.034	0.035	0.035	0.035
0.011~0.080	Shikoku Electeic Power Co.	Ikata NPS	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.014	0.014	0.014
0.023~0.087	Kuushu Elestria Bauar Ca	Genkai NPS	0.025	0.027	0.026	0.025	0.026	0.027	0.025	0.026	0.026	0.026	0.027	0.026
0.034~0.120	Kyushu Electric Power Co.	Sendai NPS	0.039	0.038	0.037	0.038	0.039	0.038	0.036	0.036	0.039	0.037	0.037	' '0.037
0.009~0.069	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Reprocessing Plant	0.016	0.016	0.017	0.017	0.016	0.017	0.017	0.016	0.016	0.016	0.016	0.017
0.009~0.071	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Plant Disposal	0.021	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.021	0.022	0.022

There could be small deviation on the monitoring time and area because of operational situation concerning with data of Fukushima Dai-ichi NPS

Range of normal average value	Company	NPS						March 31	th, 2011					
Range of Horman average value	Company	NF3	0:00	1:00	2:00	3:00	4:00	5:00	6:00	_ 7:00	8:00	9:00	10:00	11:00
0.023~0.027	Hokkaido Electric Power Co.	Tomari NPS	0.025	0.025	0.025	0.025	0.025	0.026	0.026	0.025	0.026	0.026		
0.024~0.060	Tohoku Electric Power Co.	Onagawa NPS	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56		
0.012~0.060	Tonoku Electric Power Co.	Higashidori NPS	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.017	0.017·		
0.033~0.050		Fukushima Dai−ichi [≪]	100.8	100.2	100.0	99.9	99.9	99.7	99.4	99.3	99.0	98.5		
0.036~0.052	Tokyo Electric Power Co.	Fukushima Dai∽ni	7.203	7.140	7.127	7.107	7.057	7.040	7.003	6.997	7.000	7.003		
0.011~0.159		Kashiwazaki kariwa NPS	0.066	0.066	0.065	0.065	0.066	0.067	0.079	0.083	0.077	0.071		
0.036~0.053	Japan Atomic Power Co.	Tokai Dai-ni NPS	0.611	0.612	0.613	0.612	0.611	0.609	0.601	0.603	0.602	0.605		
0.039~0.110	Japan Atomic Power Co.	Tsuruga NPS	0.072	0.074	0.075	0.073	0.074	0.073	0.073	0.074	0.072	0.073		
0.064~0.108	Chubu Electric Power Co.	Hamaoka NPS	0.075	0.075	0.075	0.076	0.075	0.075	0.075	0.075	0.075	0.075		
0.0207~0.132	Hokuriku Electric Power Co.	Shika NPS	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034		
0.028~0.130	Chugoku Electric Power Co.	Shimane NPS	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.029	0.030	0.031		1.
0.070~0.077		Mihama NPS	0.074	0.073	0.072	0.073	0.073	0.073	0.073	0.072	0.072	0.072		[
0.045~0.047	Kansai Electric Power Co.	Takahama NPS	0.043	0.043	0.043	0.043	0.042	0.042	0.043	0.043	0.044	0.043		· · · · ·
0.036~0.040		Ooi NPS	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.037	0.036	0.036		
0.011~0.080	Shikoku Electeic Power Co.	Ikata NPS	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013		
0.023~0.087	Kyushu Electric Power Co.	Genkai NPS	0.027	0.026	0.025	0.026	0.027	0.027	0.027	0.027	0.026	0.027		
0.034~0.120	Rydshu Electric Power Co.	Sendai NPS	0.037	0.040	0.038	0.036	0.039	0.036	0.038	0.040	0.039	0.041		
0.009~0.069	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Reprocessing Plant	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.016		
0.009~0.071	Capari Nuclear Fuer Linited	Japan Nuclear Fuel Plant Disposal	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022.	0.023	0.022		

There could be small deviation on the monitoring time and area because of operational situation concerning with data of Fukushima Dai-ichi NPS

① North side of main office building(approx: 0.5km from Unit 2 in northwest direction) (2) Near Gymnasium(East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction) ③ Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction) ④ Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction) (5) Front of Earthquake Isolation Building (approx. 0.5km from Unit2 in northwest dirction) 6 South side of main office building ⑦ Main Gate

MC: Monitoring Car TM: Transportable Monitoring post

Mor	nitoring points												(;	3)						_				-	<u> </u>
Rea	ding time	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MC	Reading(μ Sv/h)	94.3	94.3	94.2	94.1	94.1	94.1	93.9	93.9	93.9	93.9	98.9	93.7	93.7	93.8	93.7	93.4	93.5	93.4	93.3	93.3	93.3	93.4	93.3	93.2
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
	⑥SMOB(μ Sv/h)*1	940	-	—	940	-	-	940	-		940	-		940	-		940		-	940	-		940	`-	
ТМ	⑦MG(μSv/h)*2	145		_	145	-		145	+	_	145	-		146	-		146	-	-	145		-	146	-	_
	③WG(μSv/h)*3	69.3	_	—	68.9	_	-	68.6	-	- 1	68.7	-	-	68.8		-	68.7	-		68	-	_	68.3	. —	_
wi	nd direction	NW	WNW	W	NW	W	W	NW	WNW	W	NW	W	NW	WNW	WNW	W	NW	NW	NW	WNW	NW	W	W	W	WNW
wing	d speed (m/s)	0.6	0.7	0.8	0.4	0.6	0.6	0.8	0.8	0.8	0.5	0.8	0.7	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.6	0.6	. 0.8
	*1: SMOB : South Sid	e of Main	n Office	Building																					,
	*2: MG: Main Gate																								
	*3: WG:West Gate																								
	·									•		:										_			
Mo	nitoring points												(3)		_		-							(
Rea	iding time	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:.00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
мс	Reading(μ Sv/h)	93.1	93.0	93.0	93.1	92.8	92. 9	92.8	92.8	92.7	92.5	92.4	92.3	92.3	92.4	92.4	92.3	92.2	92.2	92.3	92.3	92.3	92.2	92.2	92.2
WU	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
	⑥SMOB(μ Sv/h)*1	940	-		940	-		930	-	I	930	-		930	-		930	-	-	930	-	-	930		—
TM	⑦MG(145	-	-	145			144	-	-	144	_	_	146	-	-	146	-	—	145		-	143	-	
	③WG(μSv/h)*3	70	-	-	68.4	-		68.8	—	1	69			69.9]	-	69		-	68.8	-	-	68.2	-	
	wind direction	W	W	W	W	W	W	W	W	W	W	W	W	WSW	WNW	W	W	WSW	WNW	WNW	NW	NNW	NNW	W	SW
	wind speed (m/s)	0.8	0.7	0.7	0.6	0.6	0.7	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.9	1.0	0.8	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.4
										_															
Мо	nitoring points												(;	3)											ï
Rea	iding time	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
140	Reading(μ Sv/h)	97.6																							
WU	neutron	N.D																							
	⑥SMOB(μ Sv/h)*1	930								4															
ТМ	⑦MG(µSv/h)*2	145																		•					ŧ
	③WG(μSv/h)*3	68.5																							;
	wind direction	E																							
	wind speed (m/s)	1.6							•															_	

April 1st, 2011

Fukushima Dai-ichi

Monitoring points

North side of main office building (approx. 0.5km from Unit 2 in northwest direction)
 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)
 Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)
 Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction)
 Front of Earthquake Isolation Building (approx. 0.5km from Unit 2 in northwest direction)
 South side of main office building
 Main Gate
 Mc: Monitoring Car TM: Transportable Monitoring post

Monitoring points												. (3)				_			_				
Reading time	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:5
MC Reading(μ Sv/h)	98.9	98.1	97.9	97.7	98.7	97.9	97.7	100.8	100.5	99.2	99.6	97.6	99.9	97.6	96.8	96.5	96.5	96.6	96.5	96.7	96.7	96.9	98.1	99.1
neutron	N.D	·N.D	N.D	N.D	N.D	N.D	N.D																	
6)SMOB(μ Sv/h)*1	950			940	_	-	940	-	-	940	-		940	- 1	-	930	· - 1	- 1	930	-	- 1	930	- 1	-
TM ⑦MG(μSv/h)*2	155	—		155	-	-	162	-	-	157	-		157		-	153	_	- 1	150		- 1	151	-	_
③WG(μSv/h)*3	70.3	-	-	70.8	-	-	68.8	-	ł	72.0	-	-	69.3		- 1	69.4	-	-	69.7		- 1	69.6		
wind direction	·Ε	NE	Ν	E	E	E	E	Ε.	NE	NE	SE	SE	ε	NNE	SE	Е	W	SW	NW	E	NNE	E	E	E
wind speed (m/s)	2.3	1.3	1.0	1.8	1.7	1.8	2.3	2.5	2.7	2.3	2.6	2.3	2.0	1.4	0.8	0.6	0.5	0.7	0.7	0.5	0.6	0.5	1.2	0.8

*1: SMOB : South Side of Main Office Building

*2: MG: Main Gate

*3: WG:West Gate

Mor	nitoring points												(·				
Rea	ding time	16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
мс	Reading(µ Sv/h)	107	108.2	98.6	98.0	98.1	97.9	97.7	97.6	97.6	97.3	97.2	97.0	97.0	96.9	96.8	96.7	96.5	96.5	96.3	96.4	96.3	96.1	96.3	96.1
MC	neutron	N.D																							
	⑥SMOB(μ Sv/h)*1	950	-	-	930	-	_	930	-		930	-	-	930		+	930	-	-	940	-	-	940	-	
ТМ	⑦MG(µSv/h)*2	154	-	-	164	-]	-	154	1		150	~		151			_149	-	-	148	-	_	148	—	—
	③WG(μSv/h)*3	82.8	-	-	71.5		-	70	1		69.4	-	-	68.3		_	70.1	_	-	67.8	-	_	68.4	-	_
	wind direction	SE	E	SE	E	E	E ·	NE	Ν	NW	WSW	E	NE	SW	WNW	NNE	NNW	NW	W	· W	W	NW	NW	WNW	NW
	wind speed (m/s)	1.5	1.8	1.8	1.0	1.5	0.9	0.7	0.4	0.5	0.5	0.4	0.6	0.5	0.7	0.7	0.3	0.4	0.7	0.3	0.6	0.8	0.7	1.0	1.2

Mor	nitoring points												(3)											
Rea	ding time	20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
MC	Reading(μ Sv/h)	96.2	96.2	96.0	95.9	95.9	95.7	95.7	95.6	95.4	95.3	95.3	95.3	95.2	95.3	95.0	94.9	95.1	94.8	94.8	94.8	94.7	94.7	94.6	94.7
INIC	neutron	N.D																							
	⑥SMOB(μ Sv/h)*1	940	-	-	940	- 1	-	940	-		940		-	940	-		940	-		940	-		940	-	<u> </u>
ТМ	⑦MG(μSv/h)*2	148		-	148		-	148			148		-	148	_		146	~		148		-	145		
	③WG(μSv/h)*3	70.9	-		70.6	-		69.9			70.5		-	69.6	-		72.1			69.9	_		69.9		
	wind direction	NW	WNW	NW	NW	NE	NW	NNE	W	NW	NW	NW ·	NNW	, W	NW	W	W	W	W	WSW	NW	W	W	W	W
	wind speed (m/s)	1.1	1.4	1.3	0.9	0.8	0.8	0.5	0.3	· 0.3	0.4	0.4	0.2	0.4	0.5	0.7	1.0	0.7	0.7	0.8	0.8	0.5	0.4	0.5	0.7

March 31st, 2011

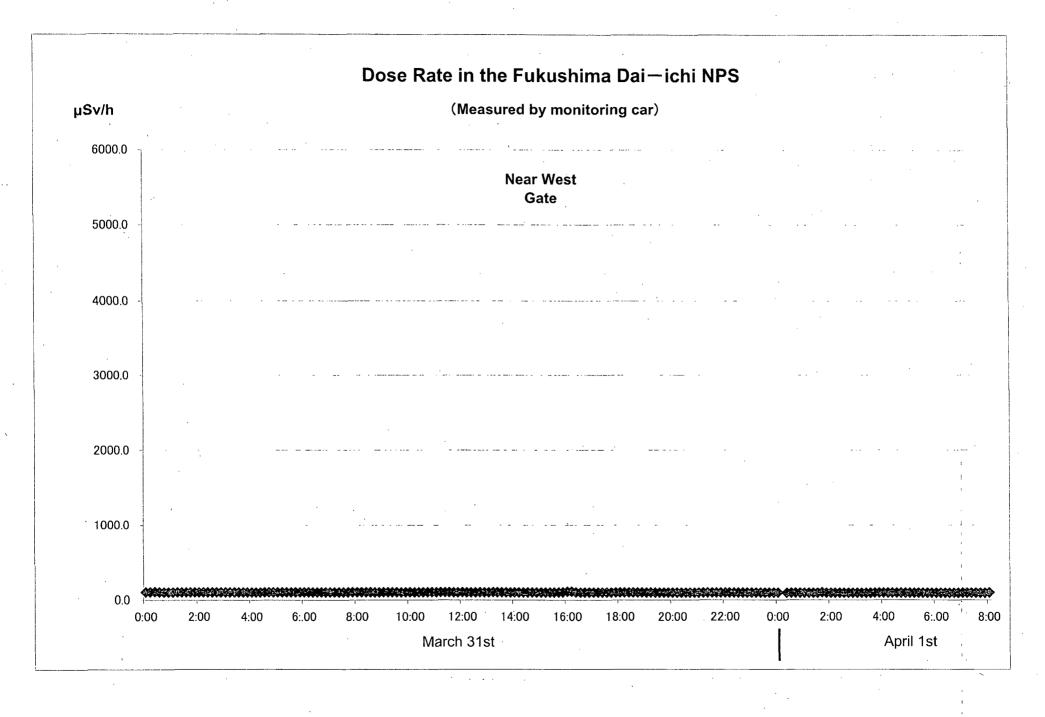
Fukushima Dai-ichi Monitoring points North side of main office building (approx. 0.5km from Unit 2 in northwest direction)
 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)
 Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)
 Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction)
 Front of Earthquake Isolation Building (approx. 0.5km from Unit2 in northwest direction)
 South side of main office building
 Main Gate

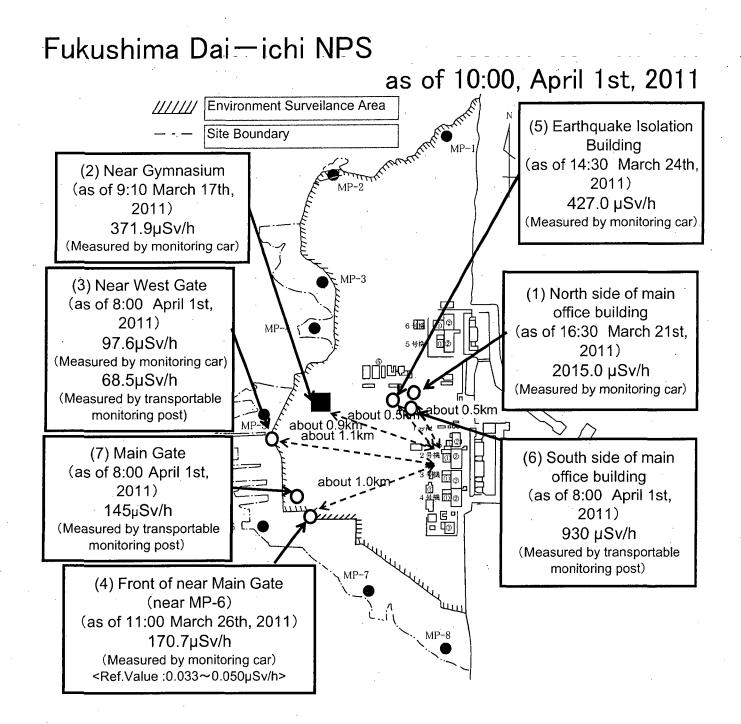
MC: Monitoring Car TM: Transportable Monitoring post

Мо	nitoring points												(3												
Rea	ding time	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
мс	Reading(μ Sv/h)	100.8	100.8	105.4	101.0	100.4	100.3	100.2	100.4	100.3	100.1	100.2	100.1	100.0	100.0	100.0	100.1	100.0	100.1	99.9	100.3	100.1	100.0	100.1	99.9
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
	⑥SMOB(μ Sv/h)*1	990	-		1,000	-		990	-	—	990		-	1,000	-	— · ·	990	-	—	990	-	-	990	-	_
TM	⑦MG(μSv/h)*2	154	_		152	-	-	154		—	152	-	-	152			153	-	-	152	— ·	-	151	-	_
	③WG(μSv/h)*3	71.5	-	-	73.6	-	-	72.2			71.9	-]	-	71.3	-	-	72.5	-	_	71.9	1	-	70.5		
w	ind direction	NE	SE	S	NE	WNW	NE	NE	NE	NE	E	SSW	SSE	WSW	SSE	ENE	WSW	WNW	S	. SW	NE	WSW	WNW	W	NE
win	d speed (m/s)	3.9	0.9	2.8	4.3	1.6	4.0	5.8	5.9	6.0	2.1	0.5	0.5	0.8	0.9	0.9	1.8	2.2	3.6	2.2	4.7	4.3	1.8	0.6	0.3
	*1: SMOB : South Sid	e of Mair	n Office	Building																					I
	*2: MG: Main Gate																								
	*3: WG:West Gate														•										
Мо	nitoring points												(3)											1
Rea	ading time	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:.00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
мс	Reading(μ Sv/h)	99.9	99.9	99.9	99.9	99.9	99.8	99.7	99.8	99.7	99.6	99.6	99.5	99.4	99.3	99.4	99.4	99.4	99.3	. 99.3	99.2	99.2	99.3	99.0	99.2
WIC	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
	⑥SMOB(μ Sv/h)*1	990	-		990	-		990	-		980	-		990		-	980		· —	- 990	-	·	980	-	
ΤM	[⑦MG(μSv/h)*2	152			152			150	~	-	151	-		152			152		-	150		-	150		
	③WG(μSv/h)*3	70.9			71.2	-		71.2		_	70.9	_	-	72	_	_	71.8		— .	72.9			71.4	<u> </u>	
	wind direction	WSW	WSW	NE	SSW	SW_	NE	NE	NE	NE	NE	NE	NE	WSW	NE	NE	NE	W	NW	W	W	W	NW	NW	W
	wind speed (m/s)	3.4	0.5	0.7	2.4	0.4	2.4	0.7	4.3	5.6	5.7	5.5	3.9	2.2	3.0	2.1	4.9	1.5	0.7	0.6	0.5	0.9	0.5	0.5	1.0
_																									
	nitoring points												(
Rea	ading time	8:00	8:10		8:30	8:40	8:50	9:00	9:10	9:20		9:40	<u>9:</u> 50		10:10	10:20	10:30	10:40	10:50	11:00	<u>11:10</u>	11:20	11:30	11:40	11:50
мс	Reading(μ Sv/h)	99.0	99.0	98.9	98.7	98.4	98.4	98.5	98.6	98.6	98.6	98.4	98.7	98.5	98.4	99.9	98.6	100.0	100.9	98.7	98.5	100.6	98.6	98.4	98.3
	neutron	N.D	N.D	N.D	· N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
	⑥SMOB(μ Sv/h)*1	980	-		980			970			970			970			960			960			950		_
TM	$(\overline{O}MG(\mu Sv/h)*2)$	150	_		150			149			149			151			160	-	_	158			159		
	3WG(μSv/h)*3	72.1		—	69.6		_	71		<u> </u>	72.9			70		_	70.1			72.4	·	_	72.5		
	wind direction	N	NNW	W	NE	W	N	N	NW	NW	.NW	NW	NNW	NW	WNW	NNE	E	E	E	E	<u> </u>	Ε.	E	E	ENE
	wind speed (m/s)	0.9	0.7	1.5	1,1	1.6	1.0	0.9	1.2	1.0	0.7	0.7	0.7	0.7	9.0	1.5	1.8	0.5	2.9	3.1	2.9	3.7	3.6	3.3	2.5

March 31st, 2011

Fukushima Dai-ichi Monitoring points





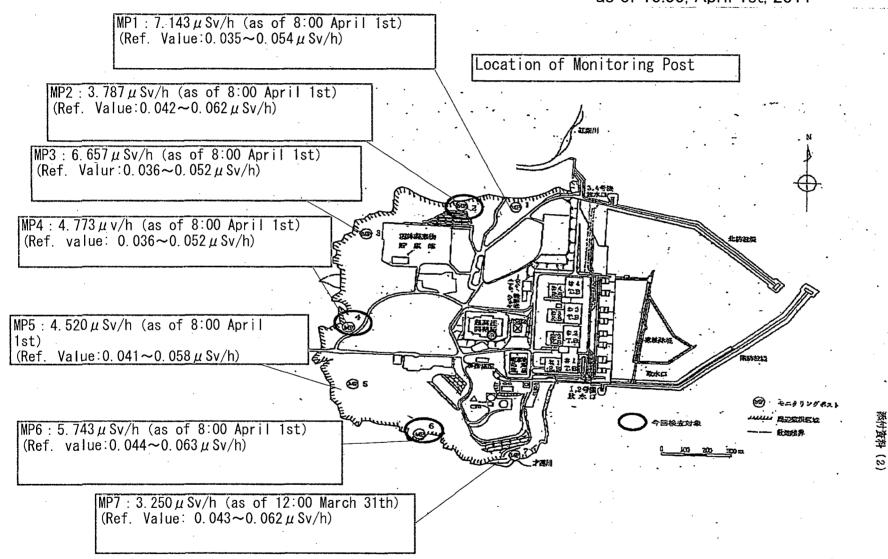
April 1, 2011						•																		
monitoring point	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MP1(μ Sv/h)	7.303	7.317	7.287	7.313	7.260	7.300	7.273	7.253	7.313	7.307	7.287	7.283	7.260	7.257	7.260	7.270	7.257	7.227	7.227	7.223	7.257	7.253	7.243	7.220
MP2(μ Sv/h)	3.840	3.850	3.837	3.833	3.863	3.833	3.860	3.860	3.843	3.817	3.830	3.820	3.833	3.853	3.830	3.840	3.833	3.817	3.813	3.813	3.813	3.803	3.810	3.837
MP3(μ Sv/h)	6.730	6.673	6.717	6.733	6.743	6.713	6.710	6.690	6.713	6.690	6.693	6.707	6.697	6.693	6.687	6.683	6.687	6.663	6.670	6.673	6.670	6.640	6.637	6.643
MP4(μ Sv/h)	4.893	4.857	4.883	4.867	4.883	4.850	4.870	4.870	4.847	4.863	4.850	4.847	4.840	4.833	4.837	4.843	4.843	4.820	4.820	4.823	4.813	4.840	4.830	4.823
MP5(μ Sv/h)	4.620	4.613	4.620	4.613	4.620	4.613	4.613	4.613	4.613	4.587	4.613	4.613	4.613	4.620	4.620	4.567	4.613	4.620	4.573	4.567	4.567	4.540	4.520	4.540
MP6(μ Sv/h)	5.840	5.823	5.830	5.823	5.850	5.827	5.817	5.830	5.827	5.793	5.810	5.823	5.807	5.820	5.803	5.793	5.800	5.767	5.770	5.800	5.790	5.773	5:790	5.790
MP7(μ Sv/h)	ND	ND '	ND	ND	ND	ND	ND	ND	ND	ND	NÐ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND.	ND
wind direction	NW	NW	NW	NW	NW	<u>N</u> W	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	NW	NW	· NW	NW	NW	NW	NW	NW
wind speed (m/s)	. 6.8	6.2	5.6	5.7	4.8	4.9	4.7	4.4	5.0	5.6	5.4	4.9	4.3	. 3.9	3.6	4.1	4.7	5.2	5.0	4.4	4.7	6:1	5.,1	4.7
																							P	
April 1, 2011	,																		·					
monitoring point	4:00	4:10	4:20	4:30		4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50		7:10	7:20	7:30	7:40	7:50
MP1(μ Sv/h)	7.223	7.240	7.210	7.200	7.207	7.210	7.223	7.223	7.190	7.190	7.183	7.167	7.193	7.183	7.150	7.167	7.187	7.183	7.160	7.160	7.170	7.150	7:157	7.173
MP2(μ Sv/h)	<u>3.813</u>	- 3.803	3.790	3.817	3.803	3.790	3.807	3.780	3.803	3.803	3.780	3.773	3.793	3.787	3.780	3.793	3.777	3.780	3.773	3.783	3.770	3.783	3.787	3.767
MP3(μ Sv/h)	6.633	6.653	6.647	6.643	6.623	6.640	6.620	6.647	6.617	6.603	6.583	6.590	6.610	6.630	6.617	6.593	6.603	6.597	6.567	6.577	6.587	6.653	6.580	6.603
MP4(μ Sv/h)	4.820	4.807	4.810	4.810	4.800	4.800	4.793	4.783	4.803	4.793	4.807	4.790.	4.800	4.790	4.793	4.773	4.770	4.770	4.803	4.787	4.793	4.750	4.773	4.767
MP5(μSv/h)	4.567	4.513	4.573	4.520	4.513	4.540	4.520	4.513	4.520	4.520	4.520	4.520	4.520	4.520	4.520	4.520	4.520	4.520	4.513	4.513	4.520	4.520	4.520	4.520
MP6(μ Sv/h)	5.807	5.787	5.753	5.770	5.767	5.780	5.770	5.757	5.757	5.753	5.743	5.767	5.750	5.743	5.753	5.767	5.740	5.730	5.720	5.743	5.737	5.720	5.733	5.733
MP7(μ Sv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	WNW	WSW	W	WNW	N
wind speed (m/s)	4.0	4.4	5.0	5.0	5.1	4.5	4.5	4.7	4.6	4.2	4.2	4.1	3.5	3.4	4.1	3.6	3.3	2.8	2.9	1.9	0.5	0.8	0.5	0.8
April 1, 2011						0.50		0.40									10.10	10.50						
monitoring point	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
$MP1(\mu Sv/h)$	7.143																							
$MP2(\mu Sv/h)$	3.787		<u> </u>												<u> </u>								i	·
$\frac{MP3(\mu Sv/h)}{MP3(\mu Sv/h)}$	6.657						· · · ·			[· · ·							L	
$MP4(\mu Sv/h)$	4.773									l				 	<u> </u>					L		•	1	
$MP5(\mu Sv/h)$	4.520				<u> </u>					L														
$MP6(\mu Sv/h)$	5.743			 											<u> </u>	L			· · · · · · · · · · · · · · · · · · ·				Ļ	
MP7(μ Sv/h)	ND						L			<u> </u>					<u> </u>								1	
wind direction	NNW			I											·				ļ				· · · · · · · · · · · · · · · · · · ·	
wind speed (m/s)	0.8		L												I									

March 31, 2011																								
monitoring point	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50
MP1(μ Sv/h)	7.600	7.603	7.630	7.647	7.610	7.607	7.603	7.590	7:590	7.610	7.560	7.587	7.577	7.563	7.503	7,503	7.497	7.497	7.493	7.510	7.517	7.517	7.507	7.510
$MP2(\mu Sv/h)$	4.013	4.027	4.033	4.023	4.017	3.997	4.020	4.023	4.017	4.020	4.017	4.010	4.007	4.003	3.970	3.970	3.977	3.977	3.967	3.973	3.990	3.960	3.977	3.980
MP3(μ Sv/h)	6.977	6.993	7.020	6.957	6.957	6.967	6.957	6.967	6.980	6.970	6.950	6.947	6.943	6.953	6.890	6.890	6.897	6.893	6.907	6.860	6.910	6.863	6.890	6.893
MP4(μ Sv/h)	5.390	5.397	5.417	5.417	5.393	5.403	5.397	5.410	5.403	5.393	5.390	5.380	5.387	5.407	5.363	5.363	5.350	5.343	5.007	4.993	4.990	5.000	5.023	4.983
MP5(μ Sv/h)	4.793	4.807	4.813	4.813	4.813	4.813	4.760	4.760	4.713	4.760	4.760	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713
MP6(μ Sv/h)	6.017	6.037	6.043	6.010	6.037	6.007	6.050	6.010	6.007	6.037	6.030	6.000	6.033	6.013	5.960	5.960	5.960	5.967	5.947	5.950	5.970	5.993	5.950	5.960
MP7(μ Sv/h)	3.250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ·	ND	ND	ND	ND	ND'	ND
wind direction	E	ENE	ENE	NE	NE	NE	NE	NE	NE	ENE	ESE	ESE	ENE	E	NE	NE	NW	NW	WNW	NNW	NW	NNW	NNW	N
wind speed (m/s)	4.0	4.6	6.0	5.1	3.0	3.5	3.9	2.9	3.7	2.7	. 2.0	1.7	3.2	2.6	6.0	6.0	5.9	6.9	9.9	7.8	5.3	5.2	4.6	3.2
·······																							I	
March 31, 2011													•											
monitoring point	16:00	16:10	16:20	16:30	_	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
MP1(μ Sv/h)	7.507	7.493	7.527	7.550	7.530	7.457	7.480	7.483	7.483	7.490	7.453	7.533	7:477	7.520	7.507	7.540	7.470	7.470	7.443	7.407	7.420	7.437	7.417	7.410
MP2(μ Sv/h)	3.977	3.987	3.997	4.013	4.023	3.960	3.943	3.963	3.963	3.943	3.943	3.990	4.003	4.000	4.003	4.017	3.973	3.960	3.950	3.937	3.927	3.920	3.927	3.923
MP3(μ Sv/h)	6.900	6.900	6.883	6.940	6.957	6.907	6.900	6.890	6.893	6.880	6.880	6.920	6.940	6.887	6.910	6.893	6.860	6.837	6.847	6.827	6.830	6.847	6.840	6.833
MP4(μ Sv/h)	5.007	5.007	5.000	5.027	5.083	5.020	5.023	4.970	4.983	4.987	4.993	4.993	5.033	5.027	5.033	5.023	4.987	4.983	4.970	4.953	4.933	4.953	4.937	4.950
MP5(μ Sv/h)	4.713	4.713	4.713	4.713	4.807	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.713	4.687	4.667	4.713	4.660	4.693
$MP6(\mu Sv/h)$	5.967	5.967	5.987	5.997	6.020	5.930	5.983	5.967	5.950	5.937	5.940	5.960	5.957	5.957	5.943	5.957	5.960	5.963	5.947	5.943	5.917	5.920	5.903	5.927
MP7(μ Sv/h)	ND	ND_	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	ENE	NE_	NE	NE	NE	NE	NE	NNE	N	N	N	NW	WNW	NE	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW
wind speed (m/s)	2.5	4.4	4.5	3.3	3.8	3.0	2.2	1.8	1.0	1.8	1.6	3.0	3.3	1.0	1.6	2.8	4.8	5.2	5.6	7.0	7.1	6.7	6.3	6.8
												•												
March 31, 2011																			<u>.</u>			•		
monitoring point	20:00	20:10		20:30	20:40	20:50	21:00	21 :10			_	21:50		22:10	22:20	22:30	22:40	22:50	23:00			2 <u>3:</u> 30	23:40	
MP1(μ Sv/h)	7.413	7.397	7.423	7.403	7.380	7.400	7.420	7.360	7.390	7.370	7.380	7.390	7.377	7.363	7.347	7.367	7.337	7.343	7.347	7.337	7.333	7.303	7.330	7.307
$MP2(\mu Sv/h)$	3.907	3.937	3.920	3.917	3.907	3.907	3.907	3.887	3.897	3.890	3.900	3.870	3.877	3.873	3.887	3.887	3.887	3.870	3.857	3.863	3.867	3.867	3.843	3.857
• MP3(# Sv/h)	6.810	6.797	6.820	6.820	6.790	6.830	6.79 <u>3</u>	6.790	6.770	6.780	6.773	6.777	6.747	6.790	6.763	6.760	6.743	6.750	6.733	6.723	6.747	6.700	6.71/7	6.723
$MP4(\mu Sv/h)$	4.950	4.953	4.930	4.923	4.943	4.930	4.923	4.940	4.920	4.923	4.900	4.907	4.930	4.903	4.910	4.880	4.887	4.900	4.893	4.890	4.880	4.897	4.890	4.893
MP5(μ Sv/h)	4.713	4.667	4.613	4.613	4.660	4.640	4.613	4.613	4.620	4.613	4.613	4.613	4.660	4.613	4.613	4.620	4.620	4.620	4.613	4.613	4.613	4.613	4.620	4.613
$MP6(\mu Sv/h)$	5.893	5.900	5.903	5.893	5.917	5.900	5.870	5.907	5.910	5.877	5.870	5.877	5.877	5.893	5.880	5.870	.5.857	5.897	5.860	5.877	5.867	5.857	5.863	5.847
MP7(μSv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND						
wind direction	NNW	NW_	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW
wind speed (m/s)	7.8	8.1	6.7	5.5	6.0	5.7	5.7	5.6	6.0	. 5.5	4.6	5.2	4.8	4.8	4.6	6.3	6.3	5.2	6.4	6.9	7.4	7.4	7.9	7.1

March 31, 2011																								
monitoring point	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MP1(μ Sv/h)	7.780	7.757	7.757	7.750	7.733	7.750	7.690	7.697	7.713	7.680	7.657	7.657	7.653	7.667	7.680	7.677	7.643	7.677	7.647	7.640	7.623	7.623	7.593	7.607
MP2(μ Sv/h)	4.113	4.097	4.097	4.103	4.067	4.067	4.073	4.040	4.050	4.067	4.043	4.030	4.027	4.033	4.033	4.037	4.040	4.047	4.017	4.027	4.037	4.030	4.013	4.017
MP3(μ Sv/h)	7.203	7.193	7.173	7.203	7.140	7.157	7.140	7.120	7.140	7.157	7.123	7.117	7.127	7.113	7.113	7.123	7.130	7.143	7.107	7.113	7.083	7.060	7.070	7.077
$MP4(\mu Sv/h)$	5.623	5.537	5.557	5.543	5.527	5.527	5.510	5.510	5.530	5.520	5.517	5.507	5.510	5.493	5.507	5.510	5.487	5.517	5.527	5.453	5.473	5.487	5.470	5.477
$MP5(\mu Sv/h)$	4.960	4.913	4.913	4.913	4.913	4.907	4.907	4.913	4.913	4.873	4.853	4.907	4.867	4.893	4.860	4.913	4.913	4.907	4.907	4.873	4.860	4.840	4.853	4.867
$MP6(\mu Sv/h)$	6.143	6.120	6.120	6.143	6.120	6.113	6.123	6.097	6.093	6.117	6.073	6.120	6.080	6.073	6.073	6.080	6.100	6.090	6.060	6.070	6.067	6.077	6.057	6.070
MP7(μ Sv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	NNW	NNW	N	NNE	NNE	NNE	N	WNW	NW	NNW	NE	NNE_	ENE	ENE	E	WSW	ESE [®]	SE	SSE	SSE	SW	SSW	SSW	SSE
wind speed (m/s)	4.4	3.1	2.5	2.5	1.0	0.7	0.2	0.2	0.7	0.2	1.1	1.2	0.8	0.4	0.4	0.0	1.8	2.2	1.3	1.4	1.5	1.4	14.6	0.5
		-																					1	
March 31, 2011																				·				
monitoring point	4:00	4:10		4:30	4:40	_	_	5:10	5:20	5:30	5:40	5:50		6:10	[.] 6:20	6:30	6:40	6:50	7:00	7:10		7:30	7:40	
$MP1(\mu Sv/h)$	7.630	7.590	7.613	7.587	7.580	7.577	7.583	7.577	7.580	7.580	7.560	7.543	7.543	7.557	7.573	7.530	7.540	7.537	7.527	7.533	7.563	7.527	7.553	7.513
$MP2(\mu Sv/h)$	4.030	4.023	3.993	4.000	3.987	3.973	4.023	4.003	4.000	3.993	4.000	3.987	3.993	3.990	4.000	3.983	3.987	3.970	3.987	3.980	3.987	3.983	3.987	3.960
MP3(μ Sv/h)	7.057	7.083	7.050	7.063	7.073	7.077	7.040	7.063	7.037	7.067	7.047	7.027	7.003	7.040	7.053	7.050	7.043	7.050	6.997	7.010	7.037	7.027	6.987	7.033
_ MP4(μSv/h)	5.473	5.467	5.477	5.490	5.483	5.483	5.463	5.460	5.473	5.443	5.453	5.457	5.467	5.440	5.453	5.447	5.437	5.457	5.447	5.427	5.423	5.437	5.453	5.437
MP5(μ Sv/h)	4.900	4.820	4.853	4.900	4.813	4.807	4.813	4.813	4.807	4.813	4.820	4.827	4.807	4.807	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813
$MP6(\mu Sv/h)$	6.070	6.060	6.057	6.063	6.063	6.047	6.050	6.047	6.033	6.023	6.037	6.033	6.060	6.023	6.003	6.033	6.030	6.033	6.020	6.023	6.053	6.027	6.010	6.047
MP7(μ Sv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND
wind direction	SE	S	S	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW_	WSW	W	W	WNW
wind speed (m/s)	1.4	2.0	1.4	1.6	1.6	1.5	2.1	2.2	2.6	3.4	4.0	2.8	3.6	1.3	1.9	2.0	1.0	1.0	0.9	1.9	2.9	3.0	4.7	4.7
March 31, 2011																10.00		10.50						
monitoring point	8:00							9:10	9:20			9:50								11:10		11:30	11:40	
MP1(μ Sv/h)	7.517	7.530	7.540	7.537	7.530	7.513	7.510	7.500	7.527	7.497	7.540	7.503	7.487	7.493	7.513	7.517	7.563	7.580	7.507	7.543	7.590	7.493	7.503	7.503
$MP2(\mu Sv/h)$	3.983	3.993	3.970	3.990	3.970	3.953	3.963	3.967	3.973	3.963	3.963	3.980	3.970	3.960	3.973	4.003	4.050	4.023	3.993	3.977	4.023	3.983	3.960	3.983
$\frac{MP3(\mu Sv/h)}{MP4(\mu Sv/h)}$	7.000	7.010	7.000	7.013	6.973	6.997	7.003	7.010	6.987	6.983	6.980	6.973	6.993	7:000	7.003	6.983	7.010	7.030	7.000	7.003	7.050	6.990	6.980	6.947
$MP4(\mu Sv/h)$.5.427	5.410	5.423	5.427	5.433	5.440	5.397	5.440	5.430	5.413	5.433	·5.410	5.423	5.403	5.410	5.417	5.453	5.470	5.417	5.413	5.443	5.413	5.403	5.423
$\frac{MP5(\mu Sv/h)}{MP5(\mu Sv/h)}$	4.813	4.807	4.813	4.807	4.807	4.807	4.807	4.760	4.807	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.813	4.807	4.813	4.807	4.813	4.767
$MP6(\mu Sv/h)$. 6.020	6.007	6.040	6.043	6.027	6.010	6.003	6.027	6.020	6.013	6.020	6.017	6.000	6.023	6.003	6.063	6.067	6.050	6.070	6.047	6.060	6.027	6.017	6.030
MP7(μSv/h)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND .	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
wind direction	W	WNW	WNW	NNW	N	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NE	NE	NE	NE	NE	ENE	ENE	ÉNE	ENE	E	SSW
wind speed (m/s)	3.5	2.3	4.4	4.5	5.8	5.2	5.2	4.7	2.5	2.5	3.0	2.7	2.5	3.0	3.0	3.1	4.1	4.2	5.4	5.0	5.0	5.9	6.1	1.7

Fukushima Dai-ni NPS

as of 10:00, April 1st, 2011



Range of normal average value	Company	NPS						March 31	, 2011					
	Company	1113	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
0.023~0.027	Hokkaido Electric Power Co.	Tomari NPS	0.025	0.025	0.025	0.025	0.025	0.026	0.026	0.025	0.026	0.026	0.026	0.026
0.024~0.060	Tohoku Electric Power Co.	Onagawa NPS	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.55	· 0.55
0.012~0.060	Tonoka Electric Power Co.	Higashidori NPS	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	· 0.017	0.017	0.017	0.017
0.033~0.050		Fukushima Dai-ichi ^{**}	100.8	100.2	100.0	99.9	99.9	99.7	99.4	99.3	99.0	98.5	98.5	98.7
0.036~0.052	Tokyo Electric Power Co.	Fukushima Dai-ni	7.203	7.140	7.127	7.107	7.057	7.040	7.003	6.997	7.000	7.003	6.993	7.000
0.011~0.159		Kashiwazaki kariwa NPS	0.066	0.066	0.065	0.065	0.066	0.067	0.079	0.083	0.077	0.071	0.068	0.065
0.036~0.053	Japan Atomic Power Co.	Tokai Dai-ni NPS	0.611	0.612	0.613	0.612	0.611	0.609	0.601	0.603	0.602	0.605	0.603	0.602
0.039~0.110	Sapan Atomic Fower Co.	Tsuruga NPS	0.072	0.074	0.075	0.073	0.074	0.073	0.073	0.074	0.072	0.073	0.074	0.074
0.064~0.108	Chubu Electric Power Co.	Hamaoka NPS	0.075	0.075	0.075	0.076	0.075	0.075	0.075	0.075	0.075	0.075	0.075	: 0.075
0.0207~0.132	Hokuriku Electric Power Co.	Shika NPS	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.033	0.034
0.028~0.130	Chugoku Electric Power Co.	Shimane NPS	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.029	0.030	0.031	0.031	0.031
0.070~0.077		Mihama NPS	0.074	0.073	0.072	0.073	0.073	0.073	0.073	0.072	0.072	0.072	0.072	0.075
0.045~0.047	Kansai Electric Power Co.	Takahama NPS	0.043	0.043	0.043	0.043	0.042	0.042	0.043	0.043	0.044	0.043	0.043	0.043
0.036~0.040		Ooi NPS	0.035	0.035	0.035	0.035	0.036	0.036	0.036	0.037	0.036	0.036	0.035	0.035
0.011~0.080	Shikoku Electeic Power Co.	Ikata NPS	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.014	0.014
0.023~0.087	Kunshu Els Ária Baura Ca	Genkai NPS	0.027	0.026	0.025	0.026	0.027	0.027	0.027	0.027	0.026	0.027	0.026	0.026
0.034~0.120	Kyushu Electric Power Co.	Sendai NPS	0.037	0.040	0.038	0.036	0.039	0.036	0.038	0.040	0.039	0.041	0.041	0.036
0.009~0.069	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Reprocessing Plant	0.017	0.017	0.016	0.016	0.016	0.016	0.016	0.017	0.017	0.016	0.017	0.017
0.009~0.071	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Plant Disposal	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.022	0.022	0.022

XThere could be small deviation on the monitoring time and area because of operational situation concerning with data of Fukushima Dai-ichi NPS

Range of normal average value	Company	NPS	March 31, 2011											
			12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
0.023~0.027	Hokkaido Electric Power Co.	Tomari NPS	0.025	0:025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026		
0.024~0.060	Tohoku Electric Power Co.	Onagawa NPS	0.55	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53		
0.012~0.060		Higashidori NPS	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.016	0.017	0.017		
0.033~0.050	Tokyo Electric Power Co.	Fukushima Dai−ichi [%]	98.9	97.7	99.9	96.5	107.0	97.7	97.0	96.3	96.2	95.7		
0.036~0.052		Fukushima Dai-ni	6.977	6.957	6.943	6.907	6.900	6.900	6.940	6.847	6.810	6.793		
0.011~0.159		Kashiwazaki kariwa NPS	0.065	0.064	0.064	0.065	0.065	0.065	0.066	0.065	0.066	0.066		•
0.036~0.053	Japan Atomic Power Co.	Tokai Dai-ni NPS	0.603	0.603	0.600	0.599	0.599	0.598	0.591	0.594	0.587	0.592		
0.039~0.110		Tsuruga NPS	0.074	0.075	0.074	0.073	0.074	0.072	0.074	0.074	0.073	0.074		
0.064~0.108	Chubu Electric Power Co.	Hamaoka NPS	0.075	0.075	0.075	0.075	0.075	0.074	0.074	0.074	0.074	0.075		,
0.0207~0.132	Hokuriku Electric Power Co.	Shika NPS	0.034	0.034	0.034	0.033	0.033	0.033	0.033	0.032	0.033	0.033		1
0.028~0.130	Chugoku Electric Power Co.	Shimane NPS	0.030	0.029	0.029	0.031	0.030	0.032	0.030	0.030	0.030	0.031		,
0.070~0.077	Kansai Electric Power Co.	Mihama NPS	0.071	0.072	0.072	0.072	0.072	0.073	0.073	0.073	0.073	0.073		
0.045~0.047		Takahama NPS	0.043	0.043	0.043	0.044	0.043	0.043	0.042	0.043	0.042	0.043		
0.036~0.040		Ooi NPS	0.036	0.035	0.036	0.035	0.034	0.034	0.035	0.035	0.035	0.035		l.
0.011~0.080	Shikoku Electeic Power Co.	Ikata NPS	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.014		1
0.023~0.087	Kyushu Electric Power Co.	Genkai NPS	0.026	0.027	0.026	0.026	0.027	0.026	0.025	0.028	0.027	0.025		1
0.034~0.120		Sendai NPS	0.036	0.037	0.037	0.036	0.038	0.036	0.037	0.037	0.037	0.038		
0.009~0.069	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Reprocessing Plant	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.015	0.017	0.016		
0.009~0.071		Japan Nuclear Fuel Plant Disposal	0.022	0.022	0.022	0.021	0.022	0.022	0.022	0.022	0.022	0.021		i

There could be small deviation on the monitoring time and area because of operational situation concerning with data of Fukushima Dai-ichi NPS

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unit: # Sv/h

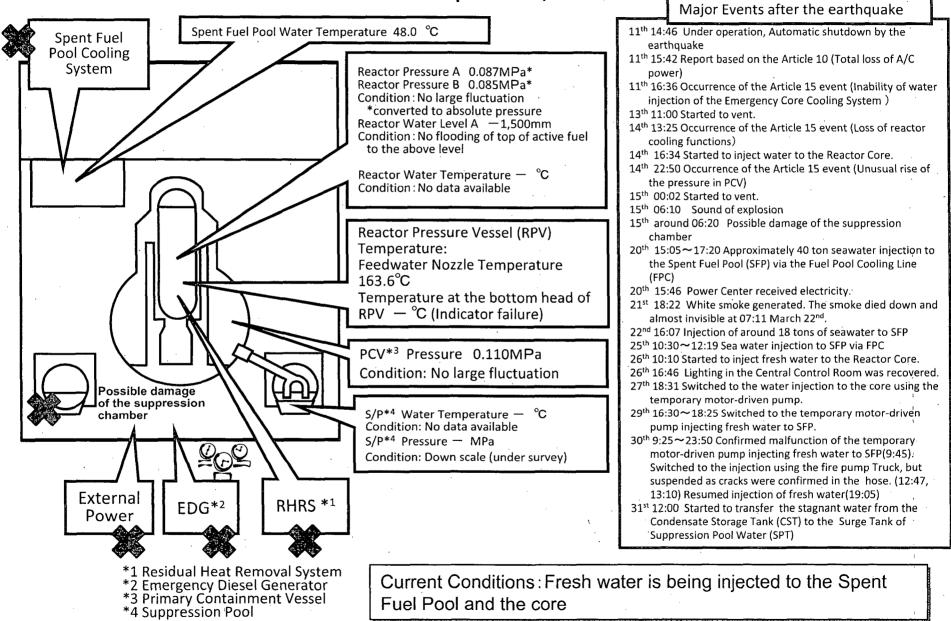
 \sim

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 1 (As of 6:00 April 1st, 2011)_ Major Events after the earthquake Spent Fuel Pool Water Temperature - °C 11th 14:46 Under operation. Automatic Condition: Indicator failure Spent Fuel shutdown by the earthquake Pool Cooling 11th 15:42 Report based on the Article 10 (Total Reactor Pressure A 0.394MPa* System loss of A/C power) Reactor Pressure B 0.596MPa* 11th 16:36 Occurrence of the Article 15 event Condition : No large fluctuation (Inability of water injection of the Emergency *converted to absolute pressure Core Cooling System) Reactor Water Level A -1,600mm 12th 01:20 Occurrence of the Article 15 event Reactor Water Level B -1.600mm (Unusual rise of the pressure in PCV) Condition: No flooding of top of active 12th 10:17 Started to vent. fuel until the above level 12th 15:36 Sound of explosion °C 12th 20:20 Started to inject seawater and Reactor Water Temperature -Condition: No data available borated water to core. 23rd 02:33 The amount of injected water to the Rector Core was increased utilizing the Reactor Pressure Vessel (RPV) Feedwater Line in addition to the Fire Temperature: Extinguish Line. $(2m^3/h \rightarrow 18m^3/h)$ Feedwater Nozzle Temperature 23rd 09:00 Switched to the Feedwater Line :255.2°C only. $(18m^3/h \rightarrow 11m^3/h)$ Temperature at the bottom head of 24th 11:30 Lighting in the Central Control Room RPV :119.7°C was recovered. 25th 15:37 Started fresh water injection. 29th 08:32 Switched to the water injection to the core using the temporary motor-driven pump. 31st 12:00 Started to transfer the stagnant PCV*³ Pressure 0.170MPa water from the Condensate Storage Tank Condition: No large fluctuation (CST) to the Surge Tank of Suppression Pool. Water (SPT) °C S/P*4 Water Temperature — 31st 13:03~16:04 Fresh water spray by Ŷ@ Concrete Pump Truck (Fresh water) Condition: No data available S/P*4 Pressure 0.170MPa External *1 Residual Heat Removal System EDG*2 RHRS*1 Condition: No large fluctuation *2 Emergency Diesel Generator *3 Primary Containment Vessel *4 Suppression Pool Power Current Conditions : Fresh water is being injected to the Spent

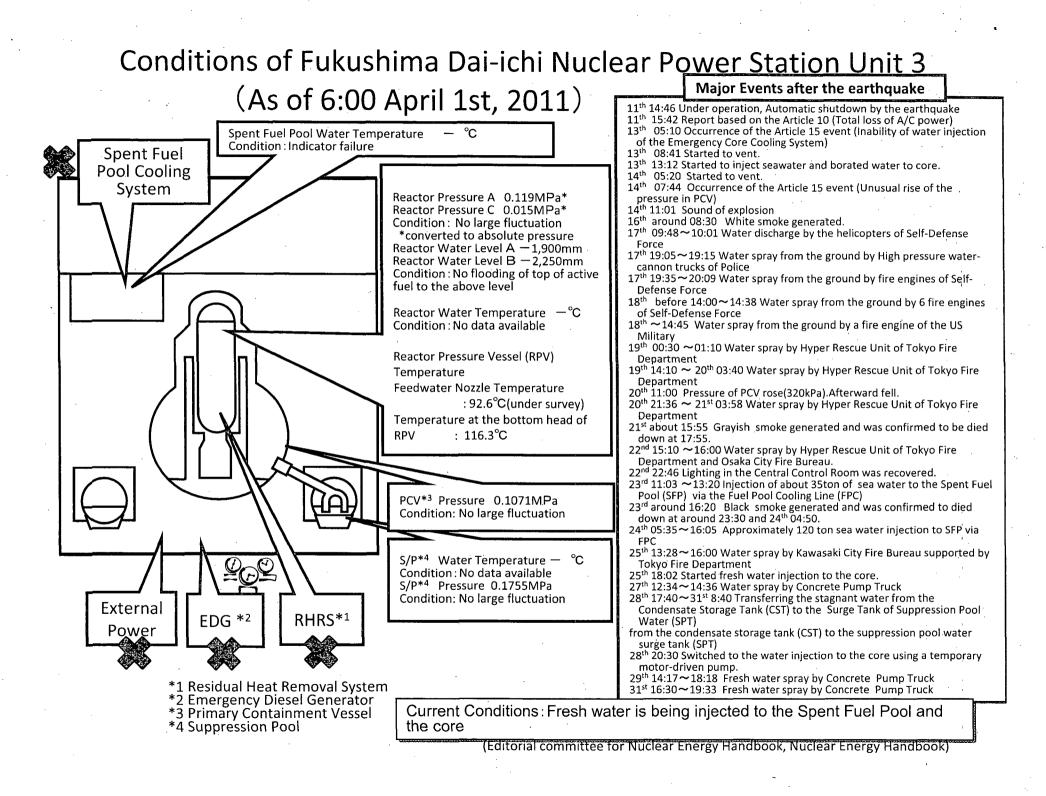
Fuel Pool and the core

(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

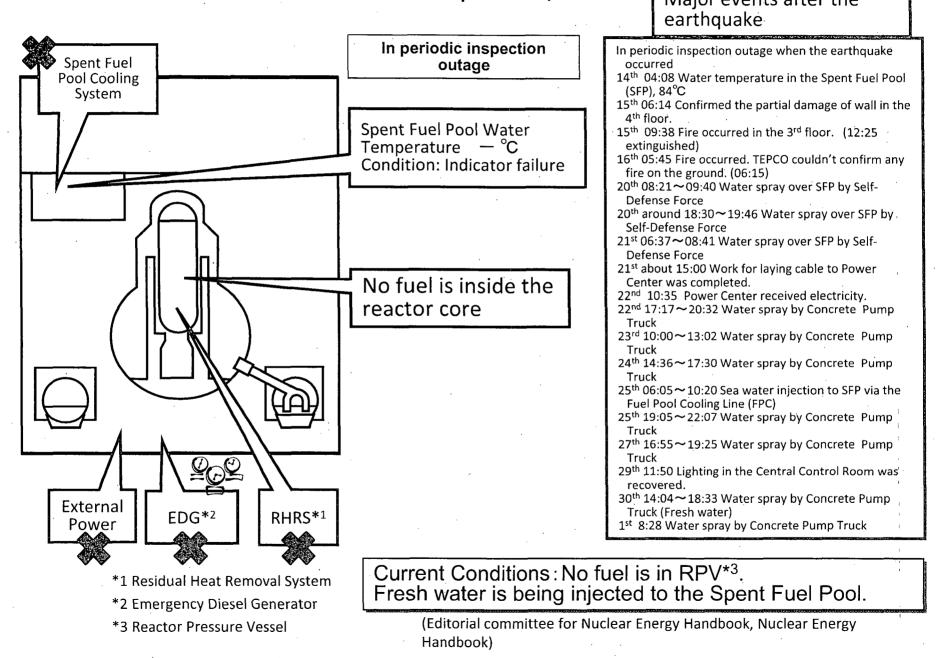
Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 2 (As of 6:00 April 1st, 2011)



(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

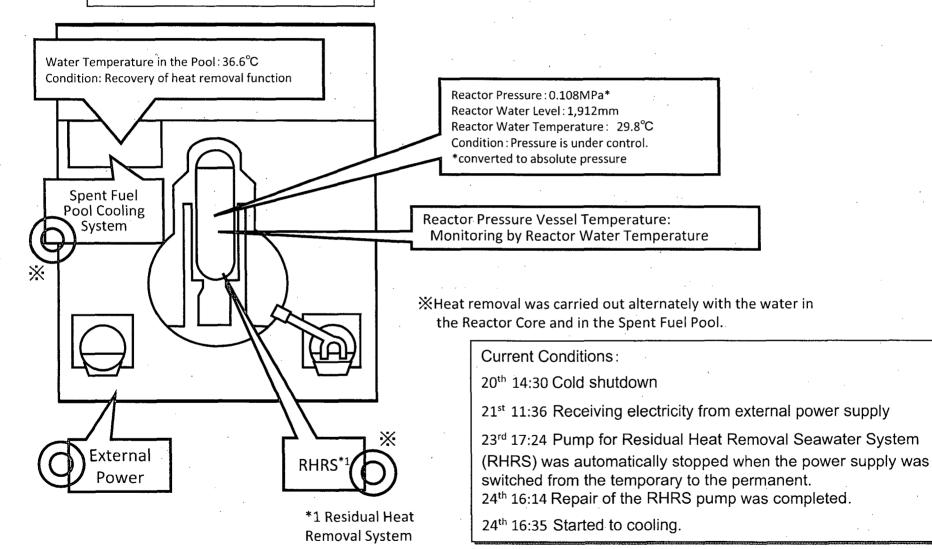


Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 4 (As of 6:00 April 1st, 2011) Major events after the



Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 5 (As of 6:00 April 1st, 2011)

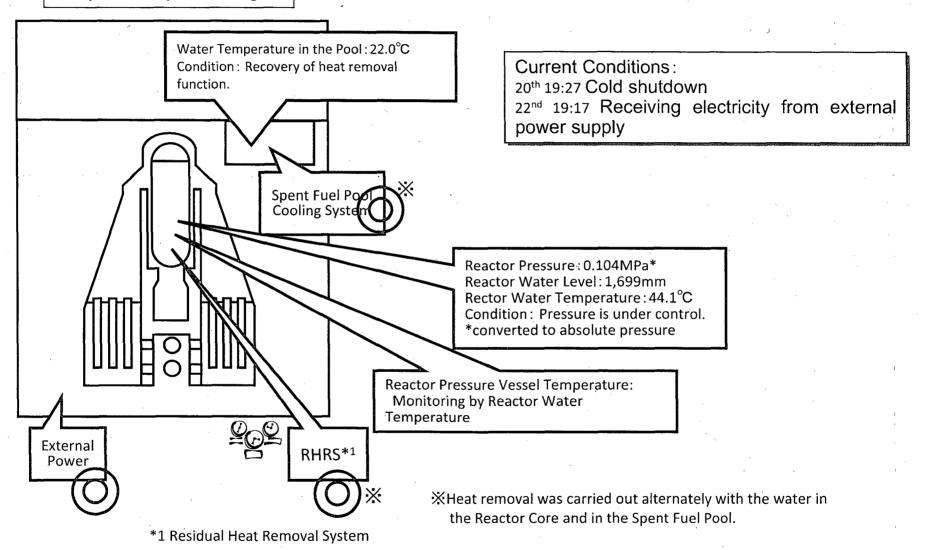
In periodic inspection outage



(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 6 (As of 6:00 April 1st, 2011)

In periodic inspection outage



(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

	Power Station Major Parameters	of the Plant (As of 6:00, April	1st)	·		
Unit No.	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Situation of water injection	Injecting fresh water via the Water Supply Line. Flow rate of injected water : 133 ℓ/min (As of 8:32, March 29th) temporary measuring instrument	Injecting fresh water via the Fire Extinguish Line. Flow rate of injected water :150 \$\mathcal{2}\$/min (As of 14:00, March 30th) temporary measuring instrument	Injecting fresh water via the Fire Extinguish Line. Flow rate of injected water: 116 ℓ/min (As of 14:39, March 29th) temporary measuring instrument	Under shutdown	Under shutdown	Under shutdown
Reactor water level	Fuel range A : -1,600mm Fuel range B : -1,600mm (As of 6:00, April 1st)	Fuel range A : -1,500mm (As of 6:00, April 1st)	Fuel range A:-1,900mm Fuel range B:-2,250mm (As of 5:45, April 1st)	#2	Shutdown range measurement 1,912mm (As of 6:00, April 1st)	Shutdown range measurement 1,699mm (As of 6:00, April 1st)
Reactor pressure	0.293MPa g(A) 0.495MPa g(B) (As of 6:00, April 1st)	-0.014MPa g (A) -0.016MPa g (B) (As of 6:00,April 1st)	0.018MPa g (A) -0.086MPa g (C) (As of 5:45, April 1st)	#2	0.007MPa g (As of 6:00, April 1st)	0.003MPa g (As of 6:00, April 1st)
Reactor water temperature	(Impossible collection due to low	system flow rate)		#2	29.8°C (As of 6:00, April 1st)	44.1°C (As of 6:00, April 1st)
Reactor Pressure Vessel (RPV) temperature	Feedwater nozzle temperature: 255.2℃ Temperature at the bottom head of RPV: 119.7℃ (As of 6:00, April 1st)	Feedwater nozzle temperature: 163.6°C Temperature at the bottom head of RPV: #1 (As of 6:00, April 1st)	Feedwater nozzle temperature: 92.6°C (under survey) Temperature at the bottom head of RPV: 116.3°C (As of 5:45, April 1st)	Unit 5,6	lement (fuel) insi the reactor wate	
D/W*1 Pressure, S/C*2 Pressure	D/W: 0.170MPa abs S/C: 0.170MPa abs (As of 6:00,April 1st)	D/W: 0.110MPa abs S/C:Down scale (under survey) (As of 6:00, April 1st)	D/W: 0.1071MPa abs S/C: 0.1755MPa abs (As of 5:45, April 1st)	#2		
CAMS*3	D/W: 4.43×10^{1} Sv/h S/C: 1.74×10^{1} Sv/h (As of 6:00, April 1st)	D/W: 3.72×10^{1} Sv/h S/C: 1.11×10^{0} Sv/h (As of 6:00,April 1st)	D/W: 2.45×10^{1} Sv/h S/C: 1.00×10^{0} Sv/h (As of 5:45, April 1st)	#2		1
D/W*1 design operating pressure D/W*1 maximum	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	#2		· ·
operating pressure Spent Fuel Pool water	0.427MPa g(0.528MPa abs) #1	0.427MPa g(0.528MPa abs) 48.0℃ (As of 6:00, April 1st)	0.427MPa g(0.528MPa abs) #1	#1	36.6°C (As of 6:00, April 1st)	22.0°C (As of 6:00, 'April 1st)
FPC skimmer level	4,500mm (As of 6:00, April 1st)	5,100mm (As of 6:00, April 1st)	#1	5,150mm (As of 5:45, April 1st)	#2	· · · · · · · · · · · · · · · · · · ·
Power supply	Receiving external power supply	(P/C*4 2C)	Receiving external power supply	(P/C4D)	Receiving ex supply	ternal power
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Station Main Da Di ichi Muele non D.

Other information	Unit3: Collecting the data of RPV temperature and continuing survey for transitional situation Unit2: Confirmed the indicated value of S/C Pressure but continuing to survey the transition of condition	Common pool: about 32 °C (As of 8:10, March 31th)	Unit5:SHC*5 mode (From 10:36 March 31th)	Unit6:Nonthe rmal mode (From 19:51 March 31th)
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Pressure conversion	Gauge pressure (MPa g) = Absolute pressure (MPa abs) – Atmospheric pressure (Normal atmospheric pressure 0.1013MPa)
	Absolute pressure (MPa abs) = Gauge pressure (MPa g) + Atmospheric pressure (Normal atmospheric pressure 0.1013MPa)

*1 *2 *3 *4 *5	D/W S/C CAMS P/C SHC	: : :	Dry Well Suppression Chamber Containment Atmospheric Monitoring System Power Center Shutdown Cooling
*5 . #1	SHC		Shutdown Cooling Measuring instrument malfunction

#1: Measuring instrument malium#2: Except from data collection

From:	LIA02 Hoc
Sent:	Saturday, April 02, 2011 6:02 PM
То:	LIA02 Hoc; ET02 Hoc; Emche, Danielle; Stahl, Eric
Cc:	Brusoe, Eric; Turner, Joseph; Jackson, Karen; LIA07 Hoc; LIA08 Hoc; LIA03 Hoc; LIA06
	Hoc
Subject:	RE: Printer needed

Danielle and Eric,

We've been told by OCFO (Dyer and Callahan) that if the printer is still needed that you should use your travel card and get what has been recommended in the earlier messages. NRC will reimburse. You can also see about having the Embassy send it back? Please let me know if you need additional help or follow up on this side.

Janice

From: LIA02 Hoc Sent: Saturday, April 02, 2011 2:54 PM To: ET02 Hoc; Emche, Danielle; Stahl, Eric Cc: Brusoe, Eric; Turner, Joseph; Jackson, Karen; LIA07 Hoc; LIA08 Hoc; LIA03 Hoc Subject: RE: Printer needed

Danjelle and Eric,

The LT has made inquiries to OCFO about how to proceed. We will update you when information becomes available. Let us know if you have any data on how much one would cost there. In addition to the issue of being approved for a purchase, we are looking into the issue of what you do with the printer at the end of the team being in Japan.

1

Cheers,

Karen

From: ET02 Hoc Sent: Saturday, April 02, 2011 6:51 AM To: Emche, Danielle; Stahl, Eric Cc: Brusoe, Eric; LIA02 Hoc; Turner, Joseph Subject: RE: Printer needed

Noted - we will keep pursuing a method to get you a printer

Omar

From: Emche, Danielle Sent: Saturday, April 02, 2011 6:48 AM To: ET02 Hoc; Stahl, Eric Cc: Brusoe, Eric; LIA02 Hoc; Turner, Joseph Subject: Re: Printer needed Yes, I can confirm that it keeps breaking and that Marco continues to try fixing it. If Marco can fix it, we will obviously not purchase a printer. Danielle

Sent from an NRC BlackBerry.

From: ET02 Hoc To: Emche, Danielle; Stahl, Eric Cc: Brusoe, Eric; LIA02 Hoc; Turner, Joseph Sent: Sat Apr 02 06:43:59 2011 Subject: RE: Printer needed

We had a 5:00 am (EDT) call from Chuck Casto in which he mentioned that a Marco from the embassy was working on the printer problem. Do you have any information on this?

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From: Emche, Danielle Sent: Saturday, April 02, 2011 6:41 AM To: Turner, Joseph; ET02 Hoc; Stahl, Eric Cc: Brusoe, Eric; LIA02 Hoc Subject: Re: Printer needed

Any thoughts about how we should pay for the printer and how it should be returned to the US? Are we approved to buy the printer? Danielle Sent from an NRC BlackBerry.

From: Turner, Joseph To: ET02 Hoc; Stahl, Eric Cc: Emche, Danielle; Brusoe, Eric; LIA02 Hoc Sent: Sat Apr 02 06:38:46 2011 Subject: RE: Printer needed

If you purchase a new printer you can connect it to the laptops.

A few suggestions:

If possible, you might want to buy the same model of printer that was working with the laptops before. We normally purchase HP printer, very reliable. I recommend laserJet instead of inkjet. Get just a printer not an all-in-one model (fax/copy/print/scan), unless you need this device to provide any of the additional features. The all-in-one models can be very difficult to setup. Might want to get an extra toner cartgage.

Hope this helps.

From: ET02 Hoc Sent: Friday, April 01, 2011 10:51 PM To: Stahl, Eric Cc: Emche, Danielle; Brusoe, Eric; Turner, Joseph; LIA02 Hoc Subject: RE: Printer needed

Eric:

We'll-look into your suggestions and get back to you on what we find out. Thanks...karen

From: Stahl, Eric Sent: Friday, April 01, 2011 10:39 PM

2

To: ET02 Hoc **Cc:** Emche, Danielle; Brusoe, Eric; Turner, Joseph; LIA02 Hoc **Subject:** RE: Printer needed

Karen et al -

Based on feedback from the Leadership Team here, I think the best way forward concerning a new a printer is to figure out a way for us to buy a printer here in Tokyo. The issue is: how will this get reimbursed? We can't put it on our voucher, since USAID is reimbursing. Is there a way for one of the team members to buy it and then get reimbursed from NRC? Are there technical/security issues related to connecting a new printer to our laptops? March Loi

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Any other insights are appreciated.

Thanks, Eric

From: ET02 Hoc To: Emche, Danielle Cc: LIA02 Hoc; Turner, Joseph; Brusoe, Eric Sent: Fri Apr 01 22:23:16 2011 Subject: FW: Printer needed

Danielle:

A couple of questions :

- 1. Can you wait until Monday for us to purchase a printer and get it shipped to you or do you need it immediately?
- 2. What is the address we would ship it to?

Thanks...karen

From: Brusoe, Eric
Sent: Friday, April 01, 2011 9:06 PM
To: ET02 Hoc; Turner, Joseph; Reyes, Debra; Padilla, William; Francis, Sharoon; Kim, Jay; Patel, Bhavin; Heard, Robert
Cc: LIA02 Hoc; LIA03 Hoc
Subject: Re: Printer needed

We can work on it. Not sure on what it would take to ship it.

Eric Brusoø Sent from my NRC Blackberry (b)(6)

From: ET02 Hoc To: Turner, Joseph; Reyes, Debra; Brusoe, Eric; Padilla, William; Francis, Sharoon; Kim, Jay; Patel, Bhavin; Heard, Robert Cc: LIA02 Hoc; LIA03 Hoc Sent: Fri Apr 01 20:58:49 2011 Subject: FW: Printer needed

I am forwarding a request from Danielle Emche who is a part of the Japan response team. Any ideas on what we can do for her concerning getting a printer for their use? Thanks...karen

From: Emche, Danielle Sent: Friday, April 01, 2011 8:53 PM To: ET02 Hoc Cc: LIA02 Hoc; Stahl, Eric; Jackson, Karen; Heard, Robert Subject: Printer needed

The printer we were provided by the embassy broke a few days ago. We have asked the embassy and USAID about whether there is any way they can give us a new one and they have told us this morning that this is not an option. At this point, we are curious about what HQ would recommend and whether it is possible for HQ to fedex us a printer.

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We thought about the option of purchasing a printer but we have considered that this could be very complicated based on any NRC approval that may be required and the complications with USAID and the travel voucher. In addition, we would probably need to bring an interpreter with us to an office store and if we have difficulty setting up the printer, we wouldn't be able to call CSC, etc.

4

Please let us know what you recommend.

Danielle

From:	Steinhurst, Laurel A CIV SEA 08 NR < (5)(6)
Sent:	Sunday, April 03, 2011 12:42 PM
То:	RST03 Hoc; Vavoso, Thomas G CIV NAVSEA, 08
Cc:	Roberts, Thomas E CIV SEA 08 NR; Steinhurst, Laurel A CIV SEA 08 NR
Subject:	Reminder of original NRC request to industry concerning "RESPONSE REQUESTED:
	Plan B Option"
Attachments:	OptionB.doc

Mr Vavoso - Per our discussion, I am forwarding the original NRC request to industry for input on the Plan B Option back to you at RST03 hoc to enable your discussion with NRC this afternoon as to the purpose of the product and the focus NRC wishes NRC industry to take in providing input.

In summary, the attached document asks

"The United States Nuclear Regulatory Commission (NRC) Reactor Safety Team (RST) requests a response to the following question:

Should Tokyo Electric Power Company (TEPCO) elect to not accept the recommendations, made by the NRC in consultation with the Industry Consortium regarding the Fukushima Daiichi units, what additional measures should be taken by TEPCO in order to maximize the success of their current strategy?"

V/R Laurel Steinhurst Naval Reactors 202-781-6047

From: RST08.Hoc@nrc.gov To: GE.HitachiNuclearResponseTeam@ge.com, INPOERC@inpo.org', dmodeen@epri.com', RST03.Hoc@nrc.gov, 'THEDEIS@aol.com', 'sal.golub@hq.doe.gov' CC: RST01.Hoc@nrc.gov, FOIAResponse.hoc.Resource@nrc.gov

Sent: 4/2/2011 6:05:18 A.M. Eastern Daylight Time Subj: RESPONSE REQUESTED: Plan B Option

As was discussed during the April 2nd 0300 Consortium Call, it .has been requested that the Consortium consider the attached.

Please provide feedback to RST01 Hoc by April 2nd by 1700 using the attached.

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Eva Brown, Reactor Safety Team

BWR Systems and Ops Analyst

Nuclear Regulatory Commission



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MEMORANDUM TO:

Nuclear Industry Consortium Members

FROM: NRC Reactor Safety Team

SUBJECT: Plan B Option Recommendations

The United States Nuclear Regulatory Commission (NRC) Reactor Safety Team (RST) requests a response to the following question:

Should Tokyo Electric Power Company (TEPCO) elect to not accept the recommendations, made by the NRC in consultation with the Industry Consortium regarding the Fukushima Daiichi units, what additional measures should be taken by TEPCO in order to maximize the success of their current strategy?

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Sec. Sec.

The RST is requesting that you use the attached for your response. A response is requested by April 2, 2011 by 5:00pm.

The purpose of this document is to provide the NRC Reactor Safety Team's assessment and recommendations for the Fukushima-Daiichi reactors to the USNRC team in Japan. Our assessments and recommendations are based on the best available technical information. We acknowledge that the information is subject to change and refinement.

OPTION B RECOMMENDATIONS

Question: Should Tokyo Electric Power Company (TEPCO) elect to not accept the recommendations, made by the NRC in consultation with the Industry Consortium regarding the Fukushima Daiichi units, what additional measures should be taken by TEPCO in order to maximize the success of their current strategy?

Consortium Member: [DOE, EPRI, GI	EH, INPO, Naval Reactors, RS	ST, NRC Site Team]	
Proposed Measure	Pro	Con	Comment
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From: Sent: To: Subject: RMTPACTSU_ELNRC <RMTPACTSU_ELNRC@ofda.gov> Sunday, April 03, 2011 1:56 PM LIA11 Hoc; LIA01 Hoc; ET07 Hoc Dudek - On Call (Cell #: (5)(6))

Jerry, Jeff:

Pretty quiet down here at USAID today. I'm going to take off in about 15 minutes. If you need anything from me, USAID, or other interagency partners, please don't hesitate to call me on my cell:

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Thanks! Michael I. Dudek

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From:	Jolicoeur, John
Sent:	Monday, April 04, 2011 8:27 AM
Fo:	Erlanger, Craig; ET07 Hoc; Gott, William; Marshall, Jane; Billings, Sally
Cc:	Holahan, Patricia
subject:	RE: ET Status Officer Coverage
	Re. El Status Oncer Coverage
No problemsTake care	of yourself and family. We've got you covered.
lohn	
From: Erlanger, Craig	
Sent: Monday, April 04,	
	am; Jolicoeur, John; Marshall, Jane; Billings, Sally
Cc: Holahan, Patricia	Officer Coverage
Subject: Re: ET Status (Sincer Coverage
Thanks. I will take everyo	ne up on the offers to cover for me. Still not sure of my return date.
Thanks again, Craig	
Sent from an NRC blackt	ierry
Craig Erlanger	
	······································
and the second se	
From: ET07 Hoc	
	er, Craig; Jolicoeur, John; Marshall, Jane; Billings, Sally
Cc: Holahan, Patricia	- ,
Sent: Sun Apr 03 15:26:	51 2011
Subject: RE: ET Status (Officer Coverage
Craig,	
Do not worry about anyt	hing back here in the ops center.
ohn Tolicoeur will take V	Vednesday's shift . T will do Tuesday unless someone else volunteers.
Hope things are ok there	
Bill	
an an the second and the second and the second s	972-9822400-00-00-00-01-0-0-0-0-0-0-0-0-0-0-0-0-
From: Gott, William	
Sent: Sunday, April 03, 1	
	Craig; Jolicoeur, John; Marshall, Jane; Billings, Sally
Cc: Holahan, Patricia	
Subject: Re: ET Status	Unicer Coverage
Lana any an Triandari Oda	11. Loopd to be off on Wednesday
i can cover Tuesday 3 to Bill	11. I need to be off on Wednesday.
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From: ET07 Hoc To: Erlanger, Craig; Gott, William; Jolicoeur, John; Marshall, Jane; Billings, Sally Cc: Holahan, Patricia Sent: Sun Apr 03 10:05:52 2011 Subject: RE: ET Status Officer Coverage

I can't do Tuesday, but I can cover the Wednesday shift, if necessary.

John Jolicoeur

From: Erlanger, Craig Sent: Sunday, April 03, 2011 10:02 AM To: Gott, William; Jolicoeur, John; Marshall, Jane; Billings, Sally; ET07 Hoc Cc: Holahan, Patricia Subject: ET Status Officer Coverage Importance: High

Good morning everyone,

I am scheduled to stand watch from 3-11 p.m. this Tuesday and Wednesday. Due to some serious medical issues w/ my father I am presently up in NY. I am not sure whether I'll be back by Tuesday so I wanted to give everyone a heads up that I may need some assistance covering my shift. I may also be in the back and forth mode for a bit.

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So...if can get some help putting somebody in a standby mode it would be greatly appreciated. I would say that needing coverage for Tuesday is about 90%. Even if I'm back, I'm running on about 3 hours sleep for the last day or so. I'll make a decision NLT noon tomorrow.

Thanks and sorry for the short fuse on this, Craig

1

From: Kenagy, W David[SMTP:KENAGYWD@STATE.GOV] Sent: Thursday, April 21, 2011 12:53:18 AM To: Kenagy, W David; vince.mcclelland@nnsa:doe.gov; Rodriguez, Veronica; ann.heinrich@nnsa.doe.gov; HOO Hoc; HOO2 Hoc; Huffman, William; decair.sara@epamail.epa.gov; timothy.greten@dhs:gov; maria.marinissen@hhs.gov: (b)(6) doehgeoc@oem.doe.gov; hhs.soc@hhs.gov; james kish@dhs.gov; HOO Hoc;-Smith, Brooke; Zubarev, Jill E; Shaffer, Mark R; nitops@nnsa.doe.gov: Skypek, Thomas M; DeLaBarre, Robin; Burkart, Alex R; Metz, Patricia J; Fladeboe, Jan P; Withers, Anne M; Lowe, Thomas J; Lewis, Brian M; SES-O_OS; EAP-J-Office-DL; O'Brien, Thomas P; Lane, Charles D; Conlon, John N; Foughty, Michael A; Mahaffey, Charles T; (b)(6); (b)(6); (b)(6); (c)(6); (c)(6 Jih, Rongsong; Cutler, Kirsten B Subject: RE: IAEA distributed documents Auto forwarded by a Rule

1111/998

From:	RST01 Hoc
From: Sent:	Monday, April 04, 2011 2:19 PM
Το:	(b)(6)

Subject: Attachments: FW: FW2: TEPCO Earthquake Information Update on April 4: Fukushima-Daiichi Status image002.jpg; image001.jpg; TEPCO water discharge.TIF

All,

Info on the release of radioactive liquid into the ocean from TEPCO.

RST Coordinator

From: 松尾 建次 [mailto:matsuo.kenji@wash.tepco.com] On Behalf Of matsuo.kenji@tepco.co.jp

Sent: Monday, April 04, 2011 11:50 AM

To: matsuo.kenji@tepco.co.jp

Subject: TEPCO Earthquake Information Update on April 4: Fukushima-Dailchi Status

Dear Friends,

Please take a look for updates at Fukushima-Dalichi NPS.

- (1) Discharge of low level radioactive accumulated water in the Fukushima Daiichi NPS to the sea
- (2) Outflow of fluid containing radioactive materials to the sea from areas near intake channel of Fukushima Daiichi NPS Unit 2
- (3) Missing TEPCO Employees at Fukushima Daiichi NPS

Contacts:

TEPCO Washington Office 202-457-0790

Kenji Matsuo, Director and General Manager

Yuichi Nagano, Deputy General Manager,

Masayuki Yamamoto, Manager, Nuclear Power Programs

(1) Discharge of low level radioactive accumulated water in the Fukushima Daiichi NPS to the sea

1

There is currently great amount of radioactive waste water in the turbine buildings of the Fukushima Daiichi NPS and especially the turbine building of Unit 2 has extremely high level radioactive waste water.

We think it is necessary to transfer the radioactive waste water to the Central Radioactive Waste Disposal Facility in order to store it in a stable condition. However, ten thousand tons of low level radioactive waste water has been already stored and we have to discharge the existing low level radioactive waste water to receive new liquids.

In addition, as low radioactive subsurface water is piling up in sub drain pits of Unit 5 and 6 and a part of subsurface water is running into buildings, important equipment to secure the safety of reactors will be submerged.

Based on the Section 1 of the Article 64 of the Nuclear Reactor Regulation Law, we have decided to discharge to the sea approximately ten thousand tons of the accumulated low level radioactive water and a total of 1,500 tons of the low level radioactive subsurface water stored in the sub drain pits of Unit 5 and 6.

We evaluate approximately 0.6 mSv of effective radioactive doses per year for adults as the impact on the discharge of the low radioactive waste water to the sea if they eat adjacent fish and seaweeds every day. The amount (0.6 mSv of effective radioactive doses per year) is one-forth of annual radioactive dose to which the general public is exposed in nature.

Afterwards, we were preparing to discharge the low radioactive waste water to the sea. We started discharging the low radioactive waste water stored in the Central Radioactive Waste Disposal Facility to the sea at 7:00 pm on April 4th. In addition, at 9:00 pm on April 4, we started discharging the low level radioactive subsurface water stored in the sub drain pits to the sea.

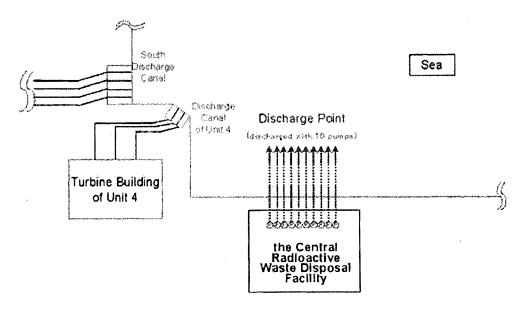
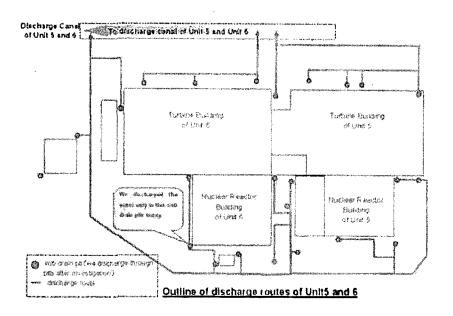


Image of discharge of the low radioactive waste water to the sea

at Fukushima Dalichi Power Station



(2) <u>Outflow of fluid containing radioactive materials to the sea from areas near intake channel of</u> <u>Fukushima Daiichi NPS Unit 2</u>

On April 2, at around 9:30 am, TEPCO detected water containing radiation dose over 1,000 mSv/h in the pit* where supply cables are stored near the intake channel of Unit 2. Furthermore, there was a crack about 20 cm on the concrete lateral of the pit, from where the water in the pit was outflowing. At around 12:20 pm, we reaffirmed the event at the scene.

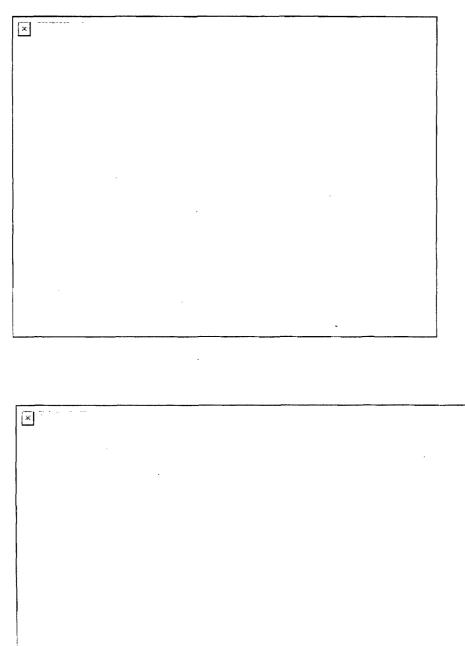
We have implemented sampling of the water in the pit, together with the seawater in front of the bar screen near the pit. These samples were sent to Fukushima Daini NPS for analysis.

In addition to seawater sampling conducted in the coastal areas of Fukushima Daiichi /Daini NPS (sampling conducted at 4 points), we have initiated additional seawater sampling at 3 points in the areas 15 km offshore from the relevant power stations. Taking into account the result of these monitoring, we are intending to conduct a comprehensive assessment.

In order to block the leakage, we have injected concrete to fill up the pit and close the crack. But it turned out that leakage into the sea still continues. Then we tried to plug the path by putting sawdust, polymer and newspaper into the path from the afternoon on April 3. The water still keep spilling into the sea. This morning (April 4th), from 7:08 to 7:11 am, tracer (opaque white powder) was poured into the pit through the horizontal shaft of the trench for seawater piping and began to investigate the water path. The amount of tracer power was approx 13kg.

We will investigate the influx route of contaminated water in the pit and implement necessary measures to prevent such influx.

*pit: a shaft made of concrete



(3) Missing TEPCO Employees at Fukushima Daiichi NPS

Due to the Tohoku-Taiheiyou-Oki Earthquake which occurred on March 11th 2011, two TEPCO employees, who had been working at the turbine building of Unit 4 for site investigation, went missing.

We had put all our efforts to search them, and approximately at 3:25 pm and at 3:53 pm, March 30, those employees were found at the basement of the turbine building and we confirmed their death on March 31.

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We would like to offer our deep regret that our employees died while working at the plant and heartfelt condolences to the bereaved families.

Versluis, Rob <rob.versluis@nuclear.energy.gov></rob.versluis@nuclear.energy.gov>
Monday, April 04, 2011 3:07 PM
RST01B Hoc; RST01 Hoc
[WARNING: MESSAGE ENCRYPTED]FW: Update to Information Sheet Regarding the
Tohoku Earthquake as of 11:30AM (EST), April 4, 2011
110404_Update to Information Sheet-19 (2).doc; 0404_1900_Radiation_Monitoring.pdf;
0402_News_No 40_by_JAIF.pdf; 0403_News_No 41_by_JAIF.pdf; 0404_News_No 42 _by_JAIF.pdf

1

fyi

Rob Versluis, PhD, DOE NE-71, 301-903-1890 (o)

From: Tai Inada [mailto:Inada@denjiren.com] Sent: Monday, April 04, 2011 2:33 PM To: Tai Inada Subject: Update to Information Sheet Regarding the Tohoku Earthquake as of 11:30AM (EST), April 4, 2011

Dear Friends,

Attached is the updated information regarding nuclear facilities for your information.

Best Regards,

Tai

Update to Information Sheet Regarding the Tohoku Earthquake

The Federation of Electric Power Companies of Japan (FEPC) Washington DC Office

As of 11:30AM (EST), April 4, 2011

- Radiation Levels
 - The level of concentration of radioactive nuclide I-131 (2.5 x 10^1 Bq/cm³) from the seawater sampled near the seawater discharge point of Fukushima Daiichi Nuclear Station at 1:50PM (JST) on April 3 was approximately 625 times higher than the maximum permissible water concentration (4.0 x 10^{-2} Bq/cm³) set by the government.
 - On April 4, TEPCO announced that it will discharge 10,000 tons of low level radioactive water stored at the Central Radioactive Waste Disposal Facility in order to accommodate higher level radioactive water. It will also discharge 1,500 tons of low level radioactive water which had accumulated at the sub-drain pits of Unit 5 and 6 in order to prevent important equipment of Unit 5 and 6 from being submerged. The original TEPCO press release is attached and also available at: http://www.tepco.co.jp/en/press/corp-com/release/11040404-e.html

(At 9:30PM on April 4, NHK reported the discharge of water from the Central Radioactive Waste Facility has commenced around 7:00PM and from the subdrain pits at 9:00PM.)

- At 6:00PM on April 4, radiation level at main gate (approximately 3,281 feet from Unit 2 reactor building) of Fukushima Daiichi Nuclear Power Station: 118 micro Sv/hour.
- At 6:00PM on April 4, radiation level at west gate (approximately 3,609 feet from Unit 2 reactor building) of Fukushima Daiichi Nuclear Power Station: 72.1 micro Sv/hour.
- Measurement results of environmental radioactivity level around Fukushima Nuclear Power Station announced at 7:00PM on April 4 are shown in the attached PDF file. English version is available at:

http://www.mext.go.jp/english/radioactivity_level/detail/1304082.htm

- For comparison, a human receives 2,400 micro Sv per year from natural radiation in the form of sunlight, radon, and other sources. One chest CT scan generates 6,900 micro Sv per scan.
- Fukushima Daiichi Unit 1 reactor
 - On April 2, lighting was restored at the part of the turbine building.
 - At 7:20AM on April 4, the temperature of the spent fuel pool by thermography measurement: 64.4 degrees Fahrenheit.
 - At 11:00AM on April 4, pressure inside the reactor core: 0.299MPa.
 - At 11:00AM on April 4, water level inside the reactor core: 1.65 meters below the top of the fuel rods.
 - At 11:00AM on April 4, pressure inside the primary containment vessel: 0.15MPaabs.
 - At 11:00AM on April 4, the temperature of the reactor vessel measured at the water supply nozzle: 469.0 degrees Fahrenheit.

- As of 3:00PM on April 4, the injection of freshwater into the reactor core continues.
- As of 7:00PM on April 4, preparation to recover and transfer the accumulated water at the turbine building continues.
- Fukushima Daiichi Unit 2 reactor
 - On April 2, lighting was restored at the part of the turbine building.
 - On April 2, monitoring cameras were set at the trench outside the turbine building and at the basement floor of the turbine building to monitor the water levels.
 - At 9:30AM on April 2, the accumulated water was found in the pit (a vertical portion of an underground structure for housing electric cables) near the seawater intake and the radiation level of the water was over 1,000 milli Sv/hour. In addition, the water was observed entering the ocean from a crack (about 20cm = 7.9 inches) on the lateral surface of the pit.
 - At 4:25PM on April 2, concrete was injected into the pit in an attempt to stop the discharging of water. (injected again at 7:02PM)
 - At 1:47PM on April 3, polymer absorber, sawdust, and shredded newspapers were inserted in the pit in an attempt to stop the overflow of the discharge of water, until 2:30PM.
 - At 7:08AM on April 4, tracer (white colored bath agent) was inserted into the trench outside the turbine building to determine the route of the water leakage.
 - At 11:00AM on April 4, pressure inside the reactor core: -0.018MPa.
 - At 11:00AM on April 4, water level inside the reactor core: 1.5 meters below the top of the fuel rods.
 - o. At. 11:00AM on April 4, pressure inside the primary containment vessel: 0.10MPaabs.
 - At 11:00AM on April 4, the temperature of the reactor vessel measured at the water supply nozzle: 282.2 degrees Fahrenheit.
 - At 11:00AM on April 4, the temperature of the spent fuel pool: 122 degrees Fahrenheit.
 - As of 3:00PM on April 4, the injection of freshwater into the reactor core continues.
 - As of 7:00PM on April 4, preparation to recover and transfer the accumulated water at the turbine building continues.
- Fukushima Daiichi Unit 3 reactor
 - On April 2, lighting was restored at the part of the turbine building.
 - At 9:52PM on April 2, TEPCO began to shoot freshwater aimed at the spent fuel pool, with a specialized vehicle normally used for pumping concrete, until 12:54PM (approximately 75 tons in total).
 - At 7:20AM on April 4, the temperature of the spent fuel pool by thermography measurement: 134.6 degrees Fahrenheit.
 - At 9:30AM on April 4, pressure inside the reactor core: 0.005MPa.
 - At 9:30AM on April 4, water level inside the reactor core: 1.75 meters below the top of the fuel rods.
 - At 9:30AM on April 4, pressure inside the primary containment vessel: 0.1069MPaabs.

- At 9:30AM on April 4, the temperature of the reactor vessel measured at the water supply nozzle: 194 degrees Fahrenheit. (This figure is under investigation.)
- As of 3:00PM on April 4, the injection of freshwater into the reactor core continues.
- At 5:03PM on April 4, TEPCO began to shoot freshwater aimed at the spent fuel pool, with a specialized vehicle normally used for pumping concrete.
- As of 7:00PM on April 4, preparation to recover and transfer the accumulated water at the turbine building continues.
- As of 7:00PM on April 4, approximately 4,908 tons of water in total has been shot into the spent fuel storage pool.
- Fukushima Daiichi Unit 4 reactor
 - On April 2, lighting was restored at the part of the turbine building.
 - At 5:14PM on April 3, TEPCO began to shoot freshwater aimed at the spent fuel pool, with a specialized vehicle normally used for pumping concrete, until 10:16PM (approximately 180 tons in total).
 - At 7:20AM on April 4, the temperature of the spent fuel pool by thermography measurement: 86 degrees Fahrenheit.
 - As of 7:00PM on April 4, approximately 1,473.2 tons of water in total has been shot into the spent fuel storage pool.
- Fukushima Daiichi Unit 5 reactor
 - At 2:00PM on April 4, the temperature of the spent fuel pool: 94.3 degrees Fahrenheit.
- Fukushima Daiichi Unit 6 reactor
 - At 2:00PM on April 4, the temperature of the spent fuel pool: 70.7 degrees Fahrenheit.
- Fukushima Daiichi Common Spent Fuel Pool
 - At 8:10AM on April 3, the temperature of the spent fuel pool: 89.6 degrees Fahrenheit.
- Others
 - At 9:10AM on April 2, a US Military barge (No.2) carrying freshwater docked at the dedicated port at Fukushima Daiichi Nuclear Power Station, towed by a vessel of the Marine Self Defense Forces.
 - At 10:20AM on April 2, transferring freshwater from the US Military barge (No.1) to a filtrate tank resumed, until 4:40PM.
 - At 12:12PM on April 4, a US Military barge (No.2) carrying freshwater docked again at the dedicated port at Fukushima Daiichi Nuclear Power Station, after refilling the freshwater.

Our official sources are:

- Office of The Prime Minister of Japan
- Nuclear and Industrial Safety Agency (NISA)
- Tokyo Electric Power Company (TEPCO) Press Releases
- Ministry of Education, Culture, Sports, Science and Technology (MEXT)



We have been reporting a status of Fukushima Daiichi nuclear power station by summarizing news aired by NHK, which is Japanese national broadcasting company. We regard it as most credible news among many news sources and we are happy to say that NHK's English website has gotten enriched and now you can see movies and English scripts at <u>http://www3.nhk.or.jp/daily/english/society.html</u>.

Given this situation, we decide to simply place these scripts as it is for the record in case that it will be deleted from the website later, rather than summarizing news as we did.

No. 41: 18:00, April 3

NHK news regarding status of Fukushima Daiichi nuclear power station yesterday and today.

Checkups find no problems in children's thyroid

Chief Cabinet Secretary Yukio Edano has said that recent checkups have found no problems in the thyroid of children in the area near the troubled Fukushima Daiichi nuclear power plant.

Edano announced the finding at a news conference on Sunday. 900 children from newborns to those of 15 in Kawamata Town and Iitate Village in Fukushima Prefecture underwent tests for radiation exposure to their thyroid glands for 3 days through last Wednesday. He said none of them had exposure readings exceeding the safety level.

Sunday, April 03, 2011 16:02 +0900 (JST)

•TEPCO to stop radioactive water leak from plant

The operator of the troubled Fukushima Daiichi nuclear power plant will start injecting water-absorbing polymers into a cracked pit to stop radioactive water from leaking into the ocean.

Tokyo Electric Power Company, or TEPCO, says it will start the emergency operation on Sunday afternoon.

On Saturday, TEPCO found radioactive water was seeping into the ocean from a crack in a concrete pit that contains power cables near the Number 2 reactor's water intake. The level of radiation on the surface of the pit's water was measured at over 1,000 milisieverts per hour.

An attempt to pour concrete into the pit, connected to the turbine building, failed to fix the leak on Saturday.

TEPCO hopes to collect overflowing water into a tank and other facilities in the complex.

The radioactive intensity of water in the reactor's turbine building was about 100,000 times that of water inside a normally operating reactor.

Water in a tunnel outside the turbine building also had high levels of radiation. TEPCO says it has not detected water leaking from the pits of other reactors and is checking other locations.

The company added that it began reducing the amount of water being injected

Earthquake Report - JAIF

into the Number 1 and 2 buildings to cool their reactors on Saturday night, saying temperatures and pressures there had stabilized.

Sunday, April 03, 2011 14:50 +0900 (JST)

PM advisor: effort to stop radioactive leakage

An advisor to the prime minister has pledged an all-out effort to contain the leakage of radioactive substances from the Fukushima Daiichi nuclear power complex within a few months.

Goshi Hosono told reporters on Sunday that environmental contamination caused by the leakage of highly radioactive water from the damaged plant to the ocean is very serious.

Hosono said it is urgent to assess the impact of the leakage on the sea and assured that the results will be made public.

The prime ministerial aide also said that the large amount of radioactive water which accumulated in the basement of the Number 2 reactor's turbine building must be removed as soon as possible.

Hosono said the deepest concern for residents is when the radioactive leakage from the plant will end.

He said the crisis at the plant has been continuing, but the situation is stabilizing. He added that the main task for now should shift to halting the leakage of radioactive elements within a few months.

Sunday, April 03, 2011 12:50 +0900 (JST)

Radioactive levels measured within 20km of plant

The Japanese government and the operator of the stricken Fukushima Daiichi power plant have started to gauge radioactive levels in the air within a 20 kilometer radius of the plant.

The government and Tokyo Electric Power Company have already been measuring radioactivity in the air outside the 20-kilometer exclusion zone that residents have been instructed to leave.

But they have not conducted any detailed assessments within the zone, saying that most residents have already evacuated the area and that there would be an increased risk of workers conducting the tests being exposed to radiation.

At a meeting of Japanese and US nuclear experts, the US side claimed more research is needed to determine the extent at which radioactive substances are spreading.

After the gathering, the Japanese government and the power company began studying radioactive levels in the air at about 30 locations inside the exclusion zone.

Sunday, April 03, 2011 05:46 +0900 (JST)



Radioactive water continues to leak into sea

Highly radioactive water continues to leak into the sea through a crack in a pit at the troubled Fukushima Daiichi power plant, despite ongoing work to pour concrete into the pit to stop the leakage.

The plant operator, Tokyo Electric Power Company, found water between 10 and 20 centimeters deep in the pit on Saturday morning. The pit is located near the water intake of the No.2 reactor and contains power cables.

The surface of the water in the pit was found to have a radiation level of over 1,000 milisieverts per hour. To fill in the crack in the pit, the utility firm began pouring in concrete at 4:30 PM on Saturday.

But even more than 6 hours later, the amount of water flowing into the pit was so large that the injected concrete had not solidified yet, allowing radioactive water to leak into the ocean.

The power company will try other measures on Sunday morning to stop water from entering the pit. It will use a particular kind of polymer which will absorb the water.

The power firm says the pit is connected to the trench of the No.2 reactor's turbine building.

Last Sunday, the radioactive density of water in the reactor's turbine building was found to be about 100,000 times higher than the normal level.

A high concentration of radioactive elements was also found in puddles in the trench.

Analysis on Saturday showed that the radioactive density of the water in the pit was around 10,000 times above the usual level.

On Saturday, the firm expanded its study of the radioactive level of seawater by analyzing samples collected about 15 kilometers from the plant in addition to samples taken near the Daiichi and Daini plants. The Daini plant sits about 10 kilometers south of the crippled Daiichi plant.

Sunday, April 03, 2011 01:41 +0900 (JST)

•Efforts to remove radioactive water stepped up

The operator of the Fukushima Daiichi nuclear plant is stepping up efforts to remove radioactive water that has been hindering its attempts to contain the ongoing problem at the power plant.

Tokyo Electric Power Company is trying to remove contaminated water from the basements of the turbine buildings of the No.1, 2, and 3 reactors.

TEPCO hopes to move the radioactive water into storage tanks in the turbine condenser. But before that can be done, work began on Saturday to empty the storage tanks at the No. 2 reactor.

TEPCO has been attempting to recover the reactors' cooling systems. It has been injecting seawater in order to prevent the reactors from overheating caused by the nuclear fuel.

But it decided to use fresh water instead because seawater is corrosive.

On Saturday morning, a docked US military barge began pumping fresh water to cool the reactors. Another US barge carrying about 1.300 tons of fresh water has



8 monitoring posts to measure radiation levels on the border of the compound started functioning again on Friday for the first time since the quake struck 3 weeks ago.

However, as the automatic data transmission system is still out of order, workers will make daily visits to collect the radiation data which TEPCO will then post on its website.

Workers are also testing the spraying of synthetic resin in areas around the reactors in the hope that it will contain radioactive materials released by the hydrogen blasts.

Saturday, April 02, 2011 21:13 +0900 (JST)

• Tap water safe again

Japan's health ministry says test results of tap water show that radiation levels are within safety standards in all municipalities.

However, the village of li-tate in Fukushima Prefecture near the disabled nuclear power plant says the situation will have to be monitored for some time. It's calling on residents not to give tap water to infants as a precaution. On Friday, litate lifted restrictions on tap water consumption.

According to the ministry, 965 becquerels of radioactive Iodine-131 was detected in tap water in Ii-tate Village on March 20th. The reading was about 3 times the national safety standard of 300 becquerels per liter.

However, the measurements fell well below the legal standard at all checkpoints from March 29th.

At all the checkpoints in Fukushima Prefecture, the radioactive Iodine readings are now below the benchmark of 100 becquerels per liter for infants.

All municipalities in the Kanto-Koshin-etsu regions including Tokyo had lifted a ban on tap-water consumption by March 27th. None of the municipalities has imposed any additional restrictions.

Saturday, April 02, 2011 21:13 +0900 (JST)

End

Attachment 0404_1900_Radiation_Monitoring.pdf(185768 bytes) cannot be converted to PDF format.



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No. 42: 20:00, April 4

NHK news regarding status of Fukushima Daiichi nuclear power station yesterday and today.

•GE offers help at Fukushima

The chief executive of General Electric says his company will help address the problems at the Fukushima Daiichi nuclear power plant.

Jeffrey Immelt met with Japanese economy minister Banri Kaieda on Monday, along with Hitachi President Hiroaki Nakanishi. General Electric and Hitachi are partners in the nuclear power industry.

Immelt offered condolences to those affected by what he called an unprecedented disaster, and said the US conglomerate is willing to provide whatever assistance is necessary to deal with the situation.

He told Kaieda that GE hopes to help restore the cooling functions at the plant and neutralize the radioactivity once the plant is stabilized.

General Electric is the manufacturer of the No. 1 and No.2 reactors at the Fukushima plant.

Immelt suggested that his company is ready to supply power generation equipment to Tokyo Electric Power Company to help the utility address electricity shortages.

He told reporters after the meeting that General Electric wants to create a support system with the utility and Hitachi.

Monday, April 04, 2011 18:25 +0900 (JST)

•Low radioactive water to be released to sea

Tokyo Electric Power Company plans to release radioactive wastewater into the sea from the Fukushima Daiichi nuclear power plant as part of efforts to stabilize the troubled plant.

The utility told a news conference on Monday that it hopes to start releasing 11,500 tons of wastewater from Tuesday at the earliest and that the operation will continue for several days.

The company says the level of iodine-131 in the wastewater is about 100 times the legal limit. But the plant operator says if people ate fish and seaweed caught near the plant every day for a year, their radiation exposure would be 0.6 millisievert. It adds the annual permissible level for the general public is one millisievert.

Wastewater will be released to make room for highly contaminated water from the No.2 reactor complex.

Radioactive water 106.000 times the normal level in ar one spin base was



been found in the turbine building. This is also hampering efforts to cool the damaged reactors.

Chief Cabinet Secretary Yukio Edano says the government approved the operation plan, as removing the water from the No.2 reactor is a more urgent matter.

Edano calls the operation an emergency measure to ensure the safety of the plant. He adds that the government told the utility to monitor radioactivity in the seawater and closely track the environmental impact.

Monday, April 04, 2011 18:17 +0900 (JST)

Edano: Radiation leak into sea must be stopped

Japan's top government spokesperson says the leak of radioactive water into the ocean from the damaged Fukushima Daiichi nuclear power plant must be stopped as soon as possible.

Chief Cabinet Secretary Yukio Edano expressed concern on Monday about the cumulative effects on the sea of possible long-term radiation leakage from the plant.

He said he is urging Tokyo Electric Power Company, the plant's owner, to act quickly to prevent the spread of contamination in the sea.

Edano said he has instructed the utility to undertake multiple operations to stem the leak, including blocking the leakage route on the ground and containing the radioactive water from the ocean side.

Monday, April 04, 2011 13:16 +0900 (JST)

•TEPCO still trying to identify leak

Tokyo Electric Power Company is still not sure how highly radioactive water is flowing into the ocean from its damaged Fukushima Daiichi nuclear power complex.

TEPCO had thought it was coming from a crack in a concrete pit at the facility.

On Monday workers poured a white liquid into a tunnel leading to the pit. The operation was undertaken to determine the exact route the water is taking from the pit near the plant's Number 2 reactor to the ocean.

But the utility firm says the white liquid did not flow into the pit and that the contaminated water must be following other routes.

As a temporary measure, the utility firm is considering setting up silt barriers near a water intake pipe for the Number 2 reactor to prevent radioactive elements from spreading in the ocean.

The utility company has also been removing radioactive water from the basements of the turbine buildings for two of the plant's reactors.

The radioactive water in the condensers for the two reactors is being transferred to storage tanks. As soon as the condensers are emptied, the water from the reactor will be drained into them to allow work to begin to restore the reactors' cooling systems.

Work to remove the water began on Sunday at reactors Number 1 and 2. A similar operation will start at the Number 3 reactor on Monday.

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Monday, April 04, 2011 12:26 +0900 (JST)



Radiation levels drop or remain flat

Radiation levels continue to drop or remain flat on Monday morning in many locations around the disabled Fukushima Daiichi nuclear power plant.

In Fukushima City, about 65 kilometers northwest of the power plant, 2.51 microsieverts per hour of radiation was detected. The reading in Koriyama City, also in Fukushima Prefecture, stood at 2.21.

Both figures are higher than the normal levels of 0.04 to 0.06 microsieverts per hour, but lower than that on Sunday.

The reading stood at 0.49 microsieverts per hour in Kita-Ibaraki City and 0.07 microsieverts per hour in Sendai City, Miyagi Prefecture.

Higher-than-usual levels of radiation were also observed in other locations, including Tokyo's Shinjuku Ward and main cities of Tochigi, Gunma, Saitama, Chiba and Kanagawa prefectures.

Authorities say these levels of radiation do not pose health risks. Monday, April 04, 2011 13:16 +0900 (JST)

•Govt did not reveal high level radiation estimate

It has been learned that the Japanese government withheld the release of computer projections indicating high levels of radioactivity in areas more than 30 kilometers from the troubled Fukushima Daiichi nuclear power plant.

The estimates were made on March 16th following explosions at the plant by an institute commissioned by the government using a computer system called SPEEDI. The system made its projections on the assumption that radioactive substances had been released for 24 hours from midnight on March 14th, based on the available data.

But the government was reluctant to reveal the SPEEDI projections, and did not release them until March 23rd.

The released data showed that higher levels of radioactive substances would flow over areas to the northwest and southwest of the plant.

The estimates showed that the radiation would exceed 100 millisieverts in some areas more than 30 kilometers from the nuclear plant if people remained outdoors for 24 hours between March 12th and 24th.

That is 100 times higher than the 1 millisievert-per-year long-term reference level for humans as recommended by the International Commission on Radiological Protection.

The Nuclear Safety Commission says it did not release the projections because the location or the amount of radioactive leakage was not specified at the time.

Professor emeritus Shigenobu Nagataki of Nagasaki University, says the government should release more data about the dangers of possible radiation exposure and draw up evacuation plans and other measures together with residents.

Monday, April 04, 2011 12:38 +0900 (JST)



TEPCO to examine route of radioactive water leak

Tokyo Electric Power Company has tried to stop the leakage of radioactive water from the Fukushima Daiichi nuclear plant into the sea by obstructing the route of contaminated water. But no improvement was reported on Sunday. The company is going to make another attempt to block the stream on Monday.

Highly radioactive water was found leaking directly into the sea from a crack in a concrete pit on Saturday.

On Sunday, TEPCO poured a polymer absorbent into a duct leading to the pit in the hope of blocking the leak. The polymer material expands when it absorbs water.

But TEPCO didn't see much change in the amount of water flowing into the sea.

On Monday morning, TEPCO said workers have started pouring a colored liquid into a tunnel linked to the pit, so they might be able to retrace the exact route of the contaminated water.

The company says it will make another attempt to block the flow of the water. The company is also considering hardening the area around the cracked pit using chemicals if its next efforts fail.

Monday, April 04, 2011 06:49 +0900 (JST)

•NISA: Stemming leak will take months

Japan's Nuclear and Industrial Safety Agency said a full-scale recovery of cooling systems at the Fukushima Daiichi nuclear power plant is needed to stem the leakage of radioactive substances, but that work will take several months.

A senior official of the agency, Hidehiko Nishiyama, made the comments at a news conference on Sunday.

Highly radioactive water was found inside turbine buildings and also in tunnels under the plant. The radioactive water is flowing directly into the sea.

The agency said it will take several months to remove the contaminated water in the turbine buildings and to take measures to protect workers from radiation.

At a news conference on Sunday, the independent Nuclear Safety Commission also pointed out that it will take months to stem the leakage and restore cooling systems.

The commission said rubble and high radiation levels in some parts of the plant will hamper work.

Monday, April 04, 2011 05:27 +0900 (JST)

•GE chief promises support for TEPCO

The chief executive of General Electric has agreed to offer maximum support to Tokyo Electric Power Company, the owner of the Fukushima Daiichi nuclear plant.

Jeffrey Immelt met TEPCO chairman Tsunehisa Katsumata in Tokyo on Sunday.

TEPCO told reporters that this is Immelt's first visit to Tokyo since the March 11th earthquake and tsunami.

TEPCO said Immelt offered assistance as a representative of the company that provided the basic design for the plant's Number One reactor so the Japanese company can handle the situation better.

Katsumata told Immelt that the Tokyo area faces electricity shortages this



plants and to build more facilities to supply enough electricity.

TEPCO said Immelt agreed to help the company.

Immelt will meet Economy minister Banri Kaieda on Monday to discuss the Fukushima plant problem.

Sunday, April 03, 2011 22:14 +0900 (JST)

•Radiation levels gradually decreasing

Radiation levels on the ground have gradually decreased or have stabilized in many locations around the Fukushima Daiichi nuclear plant. Experts say these readings do not pose a threat to human health.

The highest reading in Fukushima City, 65 kilometers northwest of the plant, was 2.56 microsieverts per hour on Sunday morning, and 2.28 microsieverts per hour in Koriyama City, to the west of the plant.

These are higher figures than the normal levels of 0.04 to 0.06 microsieverts per hour.

At Sendai City in Miyagi Prefecture, a reading of 0.08 microsieverts was detected on Sunday afternoon.

In Ibaraki Prefecture, the highest readings were 0.52 microsieverts per hour in Kita-ibaragi City and 0.17 microsieverts per hour in Mito City.

Experts say these levels are not harmful.

Sunday, April 03, 2011 20:15 +0900 (JST)

•Edano wants inquiry into Fukushima accident

Chief Cabinet Secretary Yukio Edano has indicated that an independent body should be set up to investigate the accident at the Fukushima Daiichi nuclear power plant.

The top government spokesperson was asked about the accident at a news conference on Sunday. Edano replied that an objective investigation should be carried out as soon as possible to prevent a recurrence.

He said experts from the Nuclear Safety Commission and other Japanese organizations have been working on the problem. He added that the government wants to quickly launch an inquiry that will not interfere with the efforts to bring the situation under control.

Edano said he believes that the inquiry should be conducted by a third-party institution with a high level of objectivity and independence. He said it should involve the government, the plant's operator and the Nuclear Safety Commission.

Sunday, April 03, 2011 18:39 +0900 (JST)

Fukushima to check industrial goods for radiation

The government of Fukushima Prefecture will begin free monitoring of local industrial products for radiation following the leaks from the Fukushima Daiichi nuclear plant.

The prefecture said on Sunday that there is growing public concern about the impact of radiation on industrial products as well as farm and marine produce. It said more countries are moving to restrict imports from Japan even though they

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The radiation monitoring will start on Monday in an industrial park in Koriyama City and will cover all industrial products made in the prefecture.

Fukushima Governor Yuhei Sato urged the central government to quickly lift shipping restrictions on farm and marine products when radiation levels fall below the government-set limits. He said the government was slow in responding even after radiation levels declined.

A central government official said it will increase the number of organizations monitoring radiation, and will instruct the related ministries to take quick action when lifting shipping restrictions.

Sunday, April 03, 2011 17:46 +0900 (JST)

End



We have been reporting a status of Fukushima Daiichi nuclear power station by summarizing news aired by NHK, which is Japanese national broadcasting company. We regard it as most credible news among many news sources and I am happy to say that NHK's English website has gotten enriched and now you can see movies and English scripts at <u>http://www3.nhk.or.jp/daily/english/society.html</u>.

Given this situation, we decide to simply place these scripts as it is for the record in case that it will be deleted from the website later, rather than summarizing news as we did.

No. 40: 18:00, April 2

NHK news regarding status of Fukushima Daiichi nuclear power station yesterday and today.

•High-level radioactive iodine detected offshore

Radioactive iodine twice the country's legal standard has been detected in seawater at a location 40 kilometers south of the disabled Fukushima Daiichi nuclear power plant.

The Japanese Science Ministry on Saturday released the results of a survey based on samples taken 3 days ago. The sample was collected at a spot 10 kilometers off Iwaki City and 40 kilometers from the disabled plant, both in Fukushima Prefecture.

The detected level of iodine-131 was 79.4 becquerels per liter, twice the legal standard for water discharged from nuclear plants.

This is the first time that a radioactive reading that exceeds the legal limit has been detected off the shore of Fukushima Prefecture.

It's believed that the radioactive substances were carried offshore from the plant by a north-south current.

On Saturday, a crack was found in the compound of the nuclear plant through which radioactive water has been leaking into the ocean.

The Nuclear Safety and Industrial Agency says radioactive iodine will be diluted in seawater and does not pose a threat to human health. But it said it will continue to closely monitor the condition.

Saturday, April 02, 2011 17:49 +0900 (JST)

Radioactive water leak confirmed

Tokyo Electric Power Company says it has identified for the first time a place where high-level radioactive water is leaking into the ocean from the No. 2 reactor at the Fukushima Daiichi nuclear plant.

The power company said on Saturday that water has been seeping from a crack in the wall of a 2-meter deep pit that contains power cables near the reactor's water intake.

Water measuring between 10 and 20 centimeters deep was found in the pit. The radiation level has been measured at over 1,000 milisieverts per hour.

The company says it is preparing to pour concrete into the cracked pit to stop the radioactive water leak.



A senior Nuclear Safety Agency official says the crack could be one of the sources of radioactivity found in the seawater near the water outlet.

He says the agency has ordered TEPCO to test samples of seawater at more locations near the plant and analyze them for different radioactive materials.

In the past week, the radiation detected in water in the basement of the turbine building at the No. 2 reactor was about 100,000 times higher than the normal level.

High-levels of radiation were also found in puddles in a utility tunnel outside the turbine building.

Saturday, April 02, 2011 17:33 +0900 (JST)

IAEA reports lower radiation levels in litate

The International Atomic Energy Agency says radiation levels in a village 40 kilometers from the Fukushima Daiichi nuclear power plant have dropped below its criterion for evacuation.

The IAEA announced the result of its analysis on Friday.

The village of litate, to the northwest of the plant, is outside the 20-kilometer exclusion zone and the 20-to-30-kilometer alert zone where the Japanese government advises voluntary evacuation.

The IAEA said the average level of radioactive iodine-131 in Iitate's soil was 7 million becquerels per square meter between March 19th and 29th, based on 15 readings by Japanese authorities. It said this was below its evacuation criterion.

On Wednesday, the UN nuclear agency said 20 million becquerels of iodine-131 per square meter were detected in Iitate during a similar period, using data obtained by Japanese authorities. It said this was twice its evacuation level.

The IAEA says levels of radioactive substances could change depending on the situation at the Daiichi plant, as well as wind, rain, and other weather conditions. The agency is advising the Japanese government to carefully assess soil data. Saturday, April 02, 2011 11:03 +0900 (JST)

•Higher radiation levels on SDF helicopters

Higher than normal levels of radiation have been detected on Ground Self-Defense Force helicopters that flew over the troubled Fukushima Daiichi nuclear power plant even after decontamination.

GSDF sources say hundreds of microsieverts of radiation per hour were detected at engine inlets and other parts of the helicopters, which monitored radiation levels and took aerial pictures of the plant.

The US military has informed the Japanese force that radioactive cesium in particular easily adheres to paint used on helicopters and other vehicles.

The GSDF is trying to ensure that all mechanics will wear protective gear during their work. It is also considering the purchase of new equipment to vacuum up radioactive substances.

Saturday, April 02, 2011 09:27 +0900 (JST)

TEPCO to get a massive floating platform

Tokyo Electric Power Company is going to get a massive hollow floating platform from Shizuoka City. TEPCO plans to use it to store radioactive water at its crippled Fukushima Daiichi nuclear plant.



obtained it after it was used in an on-sea airport experiment off Yokosuka City near Tokyo. In 2003, the city turned the float into a deep-sea fishing park at a cost of about 7.3 million dollars.

TEPCO asked the city for the float so it can use it to store radioactive water at the nuclear plant. The float can store up to 18,000 tons of water.

Shizuoka City says TEPCO plans to keep the float in a safe place after using half its capacity.

Sources say the float will be taken to the Fukushima Daiichi nuclear plant after inside dividing walls are removed at a Yokohama shipyard.

Saturday, April 02, 2011 09:05 +0900 (JST)

•TEPCO speeds up work to remove radioactive water

The operator of the Fukushima Daiichi nuclear plant is stepping up work to remove radioactive water that hinders the functioning of the cooling systems.

Tokyo Electric Power Company is trying to remove contaminated water from the basements of the turbine buildings of the No.1, 2, and 3 reactors.

At all 3 reactors, TEPCO wants to move radioactive water into storage tanks. But first, uncontaminated water in the storage tanks must be transferred. Work at the No. 2 and 3 reactors is expected to begin on Saturday.

As for the No. 1 reactor, the uncontaminated water in the storage tank will be completely transferred to another one by Saturday afternoon.

On Friday, workers began a test spraying of synthetic resin in areas around the reactors to contain radioactive materials released by hydrogen blasts. Synthetic resin is expected to harden mud and dust.

The same day, 8 monitoring posts to measure radiation levels in the compounds started functioning again for the first time since the quake struck 3 weeks ago.

TEPCO says it will restore the automatic data transmission system so that the information can be made public on its website.

Also on Friday, docked US military barges began providing freshwater to cool the reactors. But work was suspended temporarily after water leaked from a hose. Saturday, April 02, 2011 09:05 +0900 (JST)

•Restoring stable cooling systems may take time

The operator of the crippled Fukushima Daiichi nuclear plant is working hard to restore systems that cool reactors in a stable manner by circulating massive volumes of water.

Currently, freshwater is being poured directly into the reactors and the pools containing spent nuclear fuel rods, to cool them down.

But the plant operator wants to restore the functions of the cooling systems that circulate water inside the reactors and the pools for spent fuel. The freshwater is cooled down by seawater.

On Friday, Tokyo Electric Power Company installed temporary pumps at 4 reactors, from No. 1 to No. 4. The pumps will be used to capture seawater to cool down the circulating freshwater.

But pipes and pumps used to cool the reactors may have been damaged by the quake, and radiation levels in the reactor buildings remain too high to check their condition.



TEPCO says it may take time to restore the cooling systems, as it has to take emergency measures and wait for radiation levels to go down.

It says it will consider developing other cooling methods.

Saturday, April 02, 2011 09:05 +0900 (JST)

Radioactive water may be kept in mega float

Japan's government is deciding if highly radioactive water at the Fukushima Daiichi nuclear plant can be temporarily kept in a steel mega float or in US military vessels.

Highly radioactive materials have been detected in water at the crippled nuclear plant in northeast Japan.

Plant operator Tokyo Electric Power Company plans to use water tanks to store the radioactive water, but the capacity of these tanks is limited.

Shizuoka City has offered TEPCO a hollow floating platform made of steel to store the water. The mega float is 136 meters long and 46 meters wide, and is currently used as a deep-sea fishing park.

The government is also negotiating with the US military, to see if 2 US barges can be used to temporarily store the radioactive water. The barges were used to transport freshwater that will be used to cool reactors at the nuclear plant.

The government also plans to use 2 ships leased from a private firm.

It says storage of up to 15,000 tons of contaminated water is possible if these ships are used alongside the mega float.

TEPCO and the government are trying to iron out concrete methods of safely transporting and storing radioactive water.

Saturday, April 02, 2011 05:33 +0900 (JST)

TEPCO releases new footage of Number 4 reactor

Tokyo Electric Power Company has released new video footage of the Number 4 reactor building at its damaged Fukushima complex.

The utility firm shot the video using a camera installed on the tip of the long arm of a special construction vehicle.

Osaka University Professor Akira Yamaguchi, an expert on nuclear reactors, analyzed the video. He says that a green device used to replace nuclear fuel rods stayed in place without falling into a spent-fuel storage pool, in spite of an apparent hydrogen explosion inside the reactor building.

He also says that vapor from the storage pool reduces as the special vehicle pours water onto it, which contributes to cooling the water in the pool.

Yamaguchi says the top of the reactor building suffered substantial damage, but the structure below the storage pool was hardly affected, as it was more strongly constructed.

He stresses the need to restore the power supply as early as possible to restore the pool's cooling function.

He says at least 90 tons of water a day need to be pumped in to cool the stored fuel rods. The pool in Number 4 reactor building holds over 1,300 spent rods, more than those kept in other units.

He warns that the fuel held there generates just as much heat as is produced by Numbers 2 and 3 reactors.

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Yamaguchi says it is essential to keep the temperature low at the storage pool to prevent the fuel rods from being exposed and destroyed. Friday, April 01, 2011 22:04 +0900 (JST)

• Tremors exceeded design limits for 3 reactors

The operator of the Fukushima Daiichi nuclear power station says 3 of the plant's 6 reactors were shaken on March 11th by tremors exceeding forces they were designed to withstand.

The Tokyo Electric Power Company, known as TEPCO, says reactor No.2 suffered the largest horizontal ground acceleration of 550 gals, which is 26 percent stronger than the reactor's design limit.

TEPCO says the readings were 548 gals at the No.5 reactor, about 21 percent higher than its design limit; and 507 gals at the No.3 reactor, topping the capacity by about 15 percent.

The power company says the strength of ground motions were close to or within the design parameters at the remaining 3 reactors, and at all 4 reactors of the nearby Fukushima Daini nuclear plant.

The utility says it was planning to reinforce the reactors so they could withstand horizontal shaking of 600 gals, after the government reviewed their quake-resistance standards 5 years ago. But the work was not finished.

TEPCO says it will continue analyzing the seismic activity in detail. Evident April 01, 2011 10:40 \pm 0000 (IST)

Friday, April 01, 2011 19:40 +0900 (JST)

Battle continues for Fukushima

Urgent work is continuing on several fronts to contain the crisis at the Fukushima Daiichi nuclear power plant.

Efforts to cool down the reactors continued on Friday. A barge provided by the US Navy is preparing to pump large volumes of fresh water by hose to a water tank near the No.1 reactor.

Workers at the plant are replacing seawater with fresh water to cool the reactors and spent-fuel storage pools. The move follows concerns that salt in the seawater could clog up reactor equipment and hamper the flow of coolant water.

Near the No.4 reactor, 400 liters of a synthetic resin solution were sprayed in an experiment intended to solidify contaminated dust and prevent radioactive materials from getting airborne.

Plant operator Tokyo Electric Power Company is due to test the solution for about 2 weeks to see if it works.

Workers also face the challenge of removing and safely storing highly radioactive water found in and around the reactors.

On Friday, they emptied the No.2 reactor's condensate storage tank, with the same task at the No.1 reactor due to finish soon after.

The emptied tanks will make room for water from the turbine condenser, which in turn will provide storage space for radioactive water flooding the turbine units. Contaminated water has also been found in deep tunnels extending from the turbine units of 3 reactors.

To prevent the water from spilling into the ocean, water-level monitors are being installed. The work is due to be completed by Saturday.

Friday, April 01, 2011 19:25 +0900 (JST)



Program errors force TEPCO to review all data

Tokyo Electric Power Company says it will review all data on radiation leaked from the damaged Fukushima Daiichi nuclear plant, citing errors in a computer program.

The utility says it found errors in the program used to analyze radioactive elements and their levels, after some experts noted that radiation levels of leaked water inside the plant were too high.

The company and the government's Nuclear and Industrial Safety Agency say previously released data may have shown the levels of tellurium-129 and molybdenum-99 to be higher than they really were.

But they say that levels of iodine-131, which has a significant impact on humans and the environment, remain unchanged.

Tokyo Electric releases data on radioactivity inside the plant compound and in nearby seawater and soil.

The radioactive substances are believed to be coming from damaged nuclear fuel rods.

The data is crucial for identifying the source of radioactive leaks and assessing their impact on the environment.

The Nuclear and Industrial Safety Agency has told the company to find out why the errors occurred and to take steps to prevent a recurrence.

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Friday, April 01, 2011 15:39 +0900 (JST)

End

From: Sent: To: Subject: Hoc, PMT12 Tuesday, April 05, 2011 11:41 AM PMT03 Hoc FW: NEI-led Call (Information Exchange - US Environmental Monitoring Data) Today (4/5/11)

For Chronology:

- Participants
 - ං CRCPD
 - o NET
 - o NRC/PMT
 - NRC/FSME
- Purpose of the meeting is to close loop on creating access for States to NPP environmental monitoring data being given voluntarily to EPA. NEI doesn't want their website to become a public website. Can EPA download a report once a day and transmit to CRCPD to give to States? CRCPD could post a PDF each day that contains the complete data.
- States want info on CRDCPD members only site. NEI wants to transmit it thru EPA. Ralph Andersen will follow up with EPA to see if that will work, however if not NEI is willing to transmit directly to one person at CRCPD.
- NEI working with NRR to consider how to capture this info in required NRC reporting.
- Liaison team will give NEI the LIA email address so that NEI can send us the PDF as well
- Group agreed to go to a weekly phone call now that events are a bit slower.
 Tuesday at 11:00. Call in info to follow from NEI.

From: LIA04 Hoc Sent: Tuesday, April 05, 2011 8:26 AM To: Hoc, PMT12; PMT09 Hoc Cc: LIA06 Hoc Subject: NEI-led Call (Information Exchange - US Environmental Monitoring Data) Today (4/5/11)

I was informed of this NEI-led call today (4/5/11 at 11:00-11:30 a.m. EDT) to discuss the status of U.S. environmental radiological monitoring data and sharing of U.S. commercial nuclear power plant data with State agencies and the frequency and agenda for future calls. The LT Director informed me that the PMT will be participating on the call and provide NRC's status, if needed. I just wanted to confirm this and to find out if we will be listening in to the call in one of the conference room areas, since I would like to listen in?

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Thanks,

Kim Lukes State Liaison NRC HQ Operations Center

Subject: Location:	State Coordination Conference Calls (formerly the "ASTHO" calls) Bldg 21, Executive Conference Room; US; (866) 844-9416/Intl: (203) 369-5026; passcode: (b)(6)							
Start:	Tue 4/5/2011 5:00 PM							
End:	Tue 4/5/2011 5:00 PM							
Show Time As:	Tentative							
Recurrence:	(none)							
Meeting Status:	Not yet responded							
Organizer:	CDC IMS State Coordination Task Force							
2011 Japan Response St	ate Coordination Conference Call							

When: Tuesday, April 05, 2011 5:00 PM-6:00 PM (GMT-05:00) Eastern Time (US & Canada).

Where: Bldg 21, Executive Conference Room; US: (866) 844-9416/Intl: (203) 369-5026; passcode: (b)(6)

Note: The GMT offset above does not reflect daylight saving time adjustments.

You are invited to a conference call meeting to update state and local partners while encouraging **policy-level strategic discussion** and information sharing. Federal partners, please provide the name of the point of contact for your agency who will participate and be responsible for assuring participation by your agency.

<u>Agenda</u>

Welcome – Jim Blumensotck, ASTHO

- ASPR Update, Including Public Affairs
- CDC Update
- Comments from federal partners (2-3 minutes, including any 2-3 priority areas)
- EPA
- CBP
- FDA
- NRC
- HHS-IGA
- ACF
- IHS
- SAMHSA
- DHS
- Q&A
- This call will be Operator Assisted
- All callers can begin dialing in 30 minutes prior to the meeting start

- All callers will be greeted by an Operator; please have the Passcode available when requested
- "Speakers" will identify themselves to the Operator at initial dial in
- Participants will hear music until the meeting starts
- The Operator will ask for: First Name, Last Name, Organization and City/State
- A Participant List will be provided to the POCs
- Federal partners will have open lines; other participants will be muted
- During the Question & Answer period, participants can press [*1] to be ask a question
- If you encounter te

2011 Japan Response State Coordination Conference Call

- When: Tuesday, April 05, 2011 5:00 PM-6:00 PM (GMT-05:00) Eastern Time (US & Canada).
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 - During the Question & Answer period, participants can press [*1] to be ask a question
 - For technical questions or problems, please contact: <u>eocaudiovisual@cdc.gov</u>

From: Sent: To: Cc: Subject: LIA08 Hoc Wednesday, April 06, 2011 9:13 AM RST01 Hoc OST02 HOC; LIA06 Hoc RE: Media Inquiry on RST Assessment Document

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Hi Stu,

I have not read the report and cannot make a recommendation on releasing it... can you advise? Thanks, Rani

From: OST02 HOC Sent: Wednesday, April 06, 2011 7:51 AM To: RST01 Hoc; LIA08 Hoc Subject: FW: Media Inquiry on RST Assessment Document Importance: High

From: HOO Hoc Sent: Wednesday, April 06, 2011 7:50 AM To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC Subject: FW: Media Inquiry on RST Assessment Document Importance: High

From: Burnell, Scott
Sent: Wednesday, April 06, 2011 6:11 AM
To: RST01 Hoc; HOO Hoc
Cc: FOIA Response.hoc Resource; Brenner, Eliot; Hayden, Elizabeth; Harrington, Holly
Subject: Re: Media Inquiry on RST Assessment Document
Importance: High

HOOs -- please ensure the RST and LT see this request immediately. Thanks.

RST, I need the document ASAP in order to craft a response.

LT, please provide your opinion on releasing the document in light of the NY Times extensive quoting from it. Final decision on releasing will come from agency mgmt.

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Thank you all.

Scott Burnell OPA

Sent from an NRC Blackberry Scott Burnell From: RST01 Hoc To: Burnell, Scott Cc: FOIA Response.hoc Resource Sent: Tue Apr 05 13:24:41 2011 Subject: RE: Media Inquiry on RST Assessment Document

Scott,

The assessment is thirteen pages in length and presents, on a unit-by-unit basis, the composite understanding and recommendations of NRC staff and the industry consortium relating to placing Fukushima Daiichi cores in a "stable" condition and providing a margin to further containment degradation. The recommendations are prioritized in order of importance. The 3/26/2011 version that is referred to is a working document that was in concurrence prior to official issue.

The assessment document is out of date with respect to the status of individual units and parameters; but the recommendations are still valid. The Reactor Safety Team (RST) can provide both the 3/26/2011 version and the issued 3/31/2011 version if you need it. Frank Collins RST Coordinator

From: Burnell, Scott Sent: Tuesday, April 05, 2011 12:18 PM To: RST12 Hoc; RST01 Hoc Cc: Brenner, Eliot; Harrington, Holly Subject: FW: Media Inquiry on RST Assessment Document Importance: High

Folks;

Obviously the assessment's now a week out-of-date; what particular issues does that assessment raise? We need to know in case the reporter calls us. Thanks.

Scott

From: Brenner, Eliot
Sent: Tuesday, April 05, 2011 11:13 AM
To: RST01 Hoc; ET07 Hoc; Harrington, Holly
Cc: FOIA Response.hoc Resource; Burnell, Scott; Hayden, Elizabeth
Subject: RE: Media Inquiry on RST Assessment Document

thanks. got wind of this last week but wasn't entirely certain what the document was.

Scott: any chance this is something, now outdated, developed by our Reactor Safety Team?

From: Modeen, David [mailto:dmodeen@epri.com] Sent: Tuesday, April 05, 2011 11:00 AM To: RST01 Hoc; INPOERCTech; GE.Hitachinuclearresponseteam@GE.com Subject: Media Inquiry on RST Assessment Document

Please be aware that EPRI's CNO had a brief interview with NY Times this morning, ~ 1000 hrs EDT.

Two reporters, including Matt Wald, have a copy of the March 26th version of the RST Assessment document. The individuals were trying to understand implications of the assumptions, guidance, etc in the document.

We were advised that 'someone close to it' is talking with the NY Times.

Dave

Director, External Affairs EPRI Nuclear Power Sector 704-595-2670 (work)

dmodeen@epri.com

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Subject: Location:	FW: 2011 Pacific Basin Earthquake/Tsunami ESF-8 Conference Call Phone: 877-700-1237 and Passcode: (()(6)(7))/International TOLL NUMBER: 1-210-339-7059 Passcode: (()(6)(6)(7))
Start: End:	Tue 4/5/2011 11:00 AM Tue 4/5/2011 12:00 PM
Recurrence:	Weekly
Meeting Status:	Accepted
Organizer:	OS Secretarys Operations Center
Sent: Monday, March 28 To: OS Secretarys Opera Subject: 2011 Pacific B When: Occurs every Tu	<u>:HOO.Hoc@nrc.gov</u>] On Behalf Of OS Secretarys Operations Center 8, 2011 11:52 AM

2011 Pacific Basin Earthquake/Tsunami ESF-8 Conference Call

AGENDA (Calls will now be held Tues. and Fri.)

Phone: 877-700-1237 and Pass code: (b)(6)

(International Callers) TOLL NUMBER: 1-210-339-7059 PARTICIPANT PASSCODE:

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Objective: Discussion of current response operations and future actions.

Japan Weather Updates:

HHS – Opening Comment - Quick summary on any HHS issues/concerns

Regions: R9 update R10 update

EMG Updates:

EMG OPS/FIELD OPS/OFRD OPS EMG Logs EMG Plans EMG A/F Public Affairs CI/KR

Other OPDIVs/STAFF DIVs: FDA update CDC update ACF update

Supporting Agencies: DOS update NRC update USDA update EPA update FAA update OSHA update ARC update Canadian update NORTHCOM update

Other supporting Agencies update

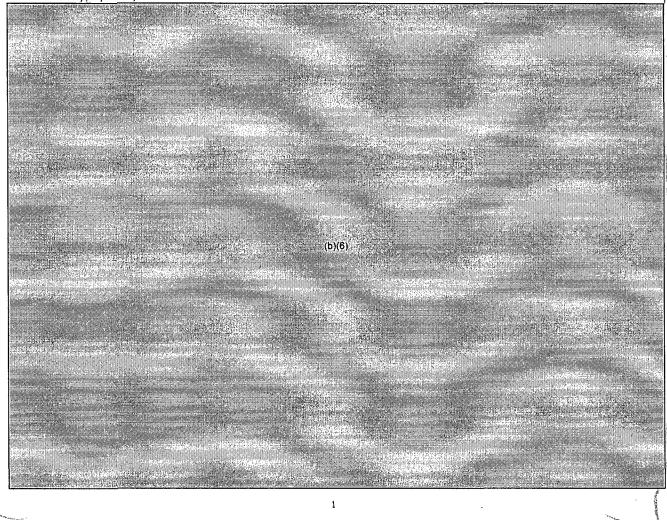
Questions:

Adjournment & Closing Comments:

Time for the next conference call: 1100EDT, TUESDAY 05Apr11 (Calls will be Tues. and Fri. weekly)

Subject: Location:	FW: 2011 Pacific Basin Earthquake/Tsunami ESF-8 Conference Call Phone: 877-700-1237 and Passcode: ((b)(6)))/International TOLL NUMBER: 1-210-339-7059 Passcode: ((b)(6)))
Start:	Tue 4/5/2011 11:00 AM
End:	Tue 4/5/2011 12:00 PM
Show Time As:	Tentative
Recurrence:	Weekly
Meeting Status:	Not yet responded
Organizer:	OS Secretarys Operations Center

-----Original Appointment-----From: OS Secretarys Operations Center Sent: Monday, April 04, 2011 7:58 AM

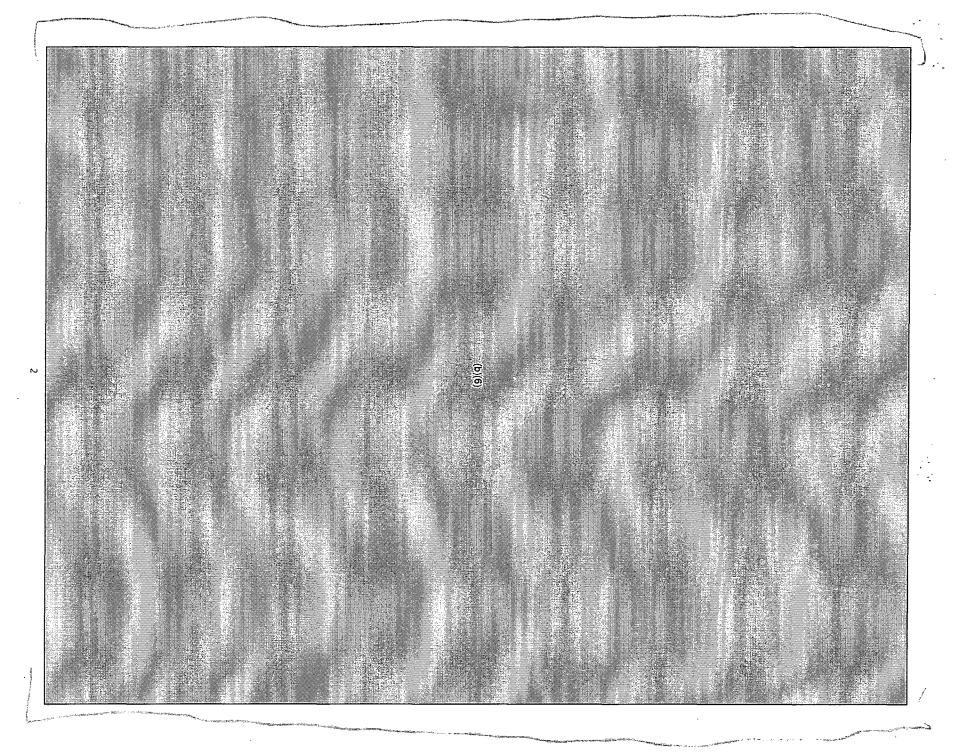


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Subject: 2011 Pacific Basin Earthquake/Tsunami ESF-8 Conference Call When: Occurs every Tuesday and Friday effective 4/5/2011 from 11:00 AM to 12:00 PM Eastern Standard Time. Where: Phone: 877-700-1237 and Passcode: ((5)(6))) /International TOLL NUMBER: 1-210-339-7059 Passcode: ((b)(6)))

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DOS update NRC update USDA update EPA update FAA update OSHA update ARC update Canadian update NORTHCOM update

Other supporting Agencies update

Questions:

Adjournment & Closing Comments: Time for the next conference call: 1100EDT, TUESDAY 05Apr11 (Calls will be Tues. and Fri. weekly)

, diana

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From: Sent: To: Subject: Attachments: HOO Hoc <HOO.Hoc@nrc.gov> Thursday, April 21, 2011 1:02 AM LIA07 Hoc; OST01 HOC FW: IAEA distributed documents METI_NISA_103_(Jap)_monitoring_results.pdf; METI_NISA_104_(Jap)_press_release.pdf; METI_NISA_104_(Jap)_plant_status_(0420_1300).pdf; METI_NISA_104 _(Jap)_monitoring_data_(0420_1500).pdf; ATMOSPHERIC DISPERSION PRODUCTS FOR 20 APRIL 2011,pdf; No103 info0800 _April20_extract_set_.pdf; METI_NISA_103_(Jap)_press_release.pdf; METI_NISA_103_ _(Jap)_plant_status.pdf

From: Kenagy, W David[SMTP:KENAGYWD@STATE.GOV] Sent: Thursday, April 21, 2011 12:59:11 AM To: Kenagy, W David; vince.mcclelland@nnsa.doe.gov; Rodriguez, Veronica; ann.heinrich@nnsa.doe.gov; HOO Hoc; HOO2 Hoc; Huffman, William; decair.sara@epamail.epa.gov; timothy.greten@dhs.gov; maria.marinissen@hhs.gov; (b)(6) doehgeoc@oem.doe.gov; hhs.soc@hhs.gov; james.kish@dhs.gov; HOO Hoc; Smith, Brooke; Zubarev, Jill E; Shaffer, Mark R; nitops@nnsa.doe.gov; Skypek, Thomas M; (b)(6) ; clark.ray@epamail.epa.gov; Stern, Warren; DeLaBarre, Robin; Burkart, Alex R; Metz, Patricia J; Fladeboe, Jan P; Withers, Anne M; Lowe, Thomas J; Lewis, Brian M; SES-O OS; EAP-J-Office-DL; O'Brien, Thomas P; Lane, Charles D; Conlon, John N; Foughty, Michael A; Mahaffey, Charles T; (b)(6); (b)(6); Jih, Rongsong; (b)(6) Cutler, Kirsten B Subject: RE: IAEA distributed documents

Auto forwarded by a Rule

From: Sent: To: Cc: Subject:

Hoc, PMT12 Tuesday, April 05, 2011 5:39 PM Miller, Jerry L.; Hendrik.Tolman@noaa.gov PMT03 Hoc; Cook, Christopher RE: Summary of observation requirements (U)

Jerry,

Will do. We have a daily (9:30pm) call with our Site Team in Japan who is coordinating with GOJ. We will raise this issue for status today. I'll advise of any significant outcomes tonight.

Tim Harris PMT - PAAD

-----Original Message-----From: Miller, Jerry L. [mailto] (b)(6) Sent: Tuesday, April 05, 2011 5:36 PM To: Hoc, PMT12; Hendrik.Tolman@noaa.gov Cc: PMT03 Hoc; Cook, Christopher Subject: RE: Summary of observation requirements (U)

Tim,

By way of this message, I am putting you in touch with Hendrik Tolman of NOAA -- the intended recipient of any source term data that your effort may produce. Please loop him in on any further updates.

1

UUU237

Best,

Jerry

Jerry L. Miller, PhD Assistant Director for Ocean Sciences Office of Science and Technology Policy **Executive Office of the President** Washington, DC 20502 Phone: +1 202 456 6137 Mobile:

(b)(6)

Email:

-----Original Message-----From: Hoc, PMT12 [mailto:PMT12.Hoc@nrc.gov] Sent: Monday, April 04, 2011 10:17 PM To: Miller, Jerry L. Cc: PMT03 Hoc; Cook, Christopher Subject: FW: Summary of observation requirements (U) Jerry,

FYI - the attached was generated questions - data needs by Navy (ADM Haley - ADM Rowden). The NRC site team in Japan is coordinating within Japan (DOE and TEPCO) to get the identified data. If we are able to get most or all of the information, it should provide a much more reasonable estimation of source term to conduct modeling.

The PMT has complied what information we have from various sources and will provide to Chris Cook (NRC) to assess.

More to come.

Tim Harris NRC - PMT-PAAD

-----Original Message-----From: Miller, Marie Sent: Monday, April 04, 2011 9:10 PM To: Hoc, PMT12 Cc: Call, Michel Subject: FW: Summary of observation requirements (U)

We would like to discuss the attached request during the 10:30 JT PMT Call. We will also work with DOE to determine, which agency can best support the information request.

----Original Message-----From: Rowden, Thomas RDML USN USFJ J2 [mailto: Sent: Monday, April 04, 2011 8:17 PM To: Miller, Marie; duncanad@state.gov Subject: Fw: Summary of observation requirements (U)

Classification: Unclassified

Here you go ...

----- Original Message -----

From: Haley, John R RDML USN

Sent: Tuesday, April 05, 2011 09:13 AM

To: Crowe, Blake BGen USMC USFJ J01; Powers, Jeffrey CAPT USN; 'MAILTO:j3temp4@jso.mod.go.jp' <MAILTO:j3temp4@jso.mod.go.jp>; 'j3temp5@jso.mod.go.jp' <j3temp5@jso.mod.go.jp>; 'TDYWhiteJR@state.gov' <TDYWhiteJR@state.gov>; Rowden, Thomas RDML USN USFJ J2; Stackpole, Patrick T COL USA USFJ J0 Subject: RE: Summary of observation requirements (U)

BG Crowe,

Two paths - ours is mil-to-mil and MG Bansho's O6 has the list for the mil side. Embassy (through Jim White) are working the civil side.

Tx, RDML JR Haley

-----Original Message-----

From: Crowe, Blake BGen USMC USFJ J01

Sent: Monday, April 04, 2011 10:25 PM

To: Haley, John R RDML USN; Powers, Jeffrey CAPT USN; 'MAILTO:j3temp4@jso.mod.go.jp'; 'j3temp5@jso.mod.go.jp'; 'TDYWhiteJR@state.gov'; Rowden, Thomas RDML USN USFJ J2; Stackpole, Patrick T COL USA USFJ J0 Subject: Re: Summary of observation requirements (U)

Classification: Unclassified

RADM Haley et al,

Can someone point those of downtown to the agency within the GoJ that has requested this assistance?

Тx,

BGen Crowe

----- Original Message -----

From: Haley, John R RDML USN

Sent: Monday, April 04, 2011 09:34 PM

To: Powers, Jeffrey CAPT USN; 'j3temp4@jso.mod.go.jp'; 'j3temp5@jso.mod.go.jp' <j3temp5@jso.mod.go.jp>; 'White, James R (TDY/DAO)' <TDYWhiteJR@state.gov>; Crowe, Blake BGen USMC USFJ J01; Rowden, Thomas RDML USN USFJ J2 Subject: RE: Summary of observation requirements

Jeff,

Who are we sending this to as "actionable" to ensure we have the right people trying to provide the data requested? I think that you are probably thinking that RDML Rowden is that conduit based on my previous email about all requests for NRC, embassy, etc. going through him. I think that he may OK you to lash-up with Jim White to work this one, though.

Sincerely, JR

-----Original Message-----

From: Powers, Jeffrey CAPT USN

Sent: Monday, April 04, 2011 8:23 PM

To: j3temp4@jso.mod.go.jp; j3temp5@jso.mod.go.jp; White, James R (TDY/DAO); Crowe, Blake BGen USMC USFJ J01; Rowden, Thomas RDML USN USFJ J2; Haley, John R RDML USN Subject: FW: Summary of observation requirements

To all-

Attached is the wish list of data to support the NOAA ocean model, for your info and use. I have asked for NOAA to provide the priority of items in their list. v/r

Jeff Powers CAPT, USN Deputy Chief of Staff, JTF 519 - Joint Support Force 225-6224 / 225-6592

(b)(6)

-----Original Message-----From: ONeill, Andrea C LCDR USN

Sent: Monday, April 04, 2011 4:29 PM

To: Powers, Jeffrey CAPT USN

Cc: 'Walsh, David J CAPT NOOC, CO'; Cooper, Grant A CAPT COMPACELT, N3WX; Gurley, Van V Capt OPNAV N2\N6F5A; Evans, Ashley D CAPT CNO N2/N6, N2/N6F5; Okon, John A. CDR USN NMOC; Stephenson, Robert A CIV; Hawkins, Leslie LTCOL USA USFJ; Towle, Wendy A. CDR (C7F N3); wardm@asascience.com; Wallmark, Jay A CIV N62306; Sommer, William L CDR NOAC Stennis, CO; 'Shaw, Ronald R Jr CDR PACOM, J3319'; Peeke, Richard S MAJ USA; 'Hanson, Christopher M Capt USAF PACAF 374 OSS/OSW'; Doty, Maryelizabeth LT USN; 'Hendrickson, John LCDR' Subject: Summary of observation requirements

Sir-

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As discussed after the brief this morning, attached is a summary of immediate observation/data requirements and longer-term requirements for ocean plume modeling. The requirements are taken from NOAA's CONOPS and developed with Mr. Stephenson for shorter-term CM needs.

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142

Please let me know if I can provide more resolution on this information, Sir.

V/r,

LCDR O'Neill

From:	Mayros, Lauren
Sent:	Wednesday, April 06, 2011 1:38 PM
То:	Wittick, Brian; UA02 Hoc
Cc:	Abrams, Charlotte; Smiroldo, Elizabeth; Bloom, Steven; Schwartzman, Jennifer; Afshar- Tous, Mugeh; 'ShafferMR@state.gov'; Tobin, Jennifer; Jones, Andrea; Young, Francis; Ramsey, Jack; Henderson, Karen; English, Lance; Shepherd, Jill; Baker, Stephen; Emche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens, Janice; Fehst, Geraldine; Foggie, Kirk; Breskovic, Clarence
Subject:	RE: One Page Summary March 6, 2011
Thanks Brian!	
'ShafferMR@state.gov'; Tobin, Je	Elizabeth; Bloom, Steven; Schwartzman, Jennifer; Afshar-Tous, Mugeh; nnifer; Jones, Andrea; Young, Francis; Ramsey, Jack; Henderson, Karen; English, Lance; mche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens, Janice; Fehst, c, Clarence

Night shift discusses with Eric and Danielle and writes up and leaves on the desk top for morning shift. Anything that came in overnight gets incorporated by morning watch and transmitted.

Brian Wittick Executive Technical Assistant for Reactors Office of the Executive Director for Operations U.S. Nuclear Regulatory Commission 301-415-2496 (w); (b)(6) (c)

From: Mayros, Lauren Sent: Wednesday, April 06, 2011 1:34 PM To: LIA02 Hoc

Cc: Abrams, Charlotte; Smiroldo, Elizabeth; Bloom, Steven; Schwartzman, Jennifer; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov'; Tobin, Jennifer; Jones, Andrea; Young, Francis; Ramsey, Jack; Henderson, Karen; English, Lance; Shepherd, Jill; Baker, Stephen; Emche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens, Janice; Fehst, Geraldine; Foggie, Kirk; Breskovic, Clarence **Subject:** RE: One Page Summary March 6, 2011

Who is doing these one page summaries? Just wondering if the night shift is responsible for writing these up, as I am doing the 3 – 12 shift tonight and don't want to drop the ball on things.

Thanks, Lauren

From: LIA02 Hoc

Sent: Wednesday, April 06, 2011 7:12 AM

To: Doane, Margaret; Mamish, Nader

Cc: Abrams, Charlotte; Smiroldo, Elizabeth; Bloom, Steven; Schwartzman, Jennifer; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov'; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; Young, Francis; Ramsey, Jack; Henderson,

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Karen; English, Lance; Shepherd, Jill; Baker, Stephen; Emche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens, Janice; Fehst, Geraldine; Foggie, Kirk; Breskovic, Clarence; LIA02 Hoc **Subject:** One Page Summary March 6, 2011

OFFICIAL USE ONLY

2011.

Attached is One Page Summary for March 6,

_OEFICIAL-USE-ONLY____

From:LIA06 HocSent:Wednesday, April 06, 2011 3:44 PMTo:Dyer, JimCc:Golder, Jennifer; Mitchell, Reggie; LIA08 HocSubject:FW: Call from Christine McDonald, OMB, RE: agency Japan activities and costs

Jim, FYI. OMB wants to meet to discuss Japan costs. I had sent it to Reggie and Jennifer but wanted to touch base with you directly so we can coordinate the meeting prep. Note that OMB is in the middle of our response efforts as Japan has requested the US to give them the cost of relief efforts. OMB is pulsing all agencies to gather this information and hopes to be able to send the tab to Japan next week.

Mark Lombard Liaison Team Director U.S. Nuclear Regulatory Commission Operations Center

φ.

From: Zimmerman, Roy
Sent: Wednesday, April 06, 2011 3:35 PM
To: LIA06 Hoc
Subject: RE: Call from Christine McDonald, OMB, RE: agency Japan activities and costs

Mike weber said he thinks Jim Dyers should have the lead,,,,sent to you in email to your name

From: LIA06 Hoc
Sent: Wednesday, April 06, 2011 3:22 PM
To: Golder, Jennifer; Mitchell, Reggie
Cc: Zimmerman, Roy; ET05 Hoc; ET01 Hoc; LIA08 Hoc; LIA06 Hoc
Subject: FW: Call from Christine McDonald, OMB, RE: agency Japan activities and costs

FYI. Should this be coordinated by OCFO?

Mark Lombard Liaison Team Director U.S. Nuclear Regulatory Commission Operations Center

From: LIA01 Hoc Sent: Wednesday, April 06, 2011 3:15 PM To: LIA06 Hoc; LIA08 Hoc Subject: FW: Call from Christine McDonald, OMB, RE: agency Japan activities and costs

THE REPORT OF THE PARTY OF THE

From: Wiggins, Jim Sent: Wednesday, April 06, 2011 2:53 PM To: Boger, Bruce; ET01 Hoc; LIA01 Hoc Subject: FW: Call from Christine McDonald, OMB, RE: agency Japan activities and costs

Need to prep this.

From: Campbell, Andy
Sent: Wednesday, April 06, 2011 2:02 PM
To: Zimmerman, Roy
Cc: Wiggins, Jim; Dyer, Jim; Weber, Michael
Subject: Call from Christine McDonald, OMB, RE: agency Japan activities and costs

Roy,

Christine McDonald from OMB called for you (given your role at the Ops Center), regarding the agencies activities related to nuclear events in Japan and the costs of those activities. Specifically OMB is interested to know what NRC is doing?, what NRC has been asked to do by various entities (particularly by Japan)?, what are the total costs the agency is incurring?, and what if anything would be reimbursable by Japan?

and the second secon

OMB is organizing a teleconference for sometime Thursday. NRC will need to be represented by two people: 1) a program person who can speak to our activities and 2) a CFO person regarding agency costs for these activities.

Christine's phone number is (b)(6)

Andy

Andrew C. Campbell, Ph.D. Deputy Director Office of Enforcement mail stop O4-H5 US Nuclear Regulatory Commission Rockville, MD 20852

email: <u>Andv.Campbell@nrc.gov</u> phone: 301-415-7566 From: Sent: To: Subject: Attachments: Brandon, Lou Wednesday, April 06, 2011 4:33 AM PMT03 Hoc FW: For ATeam: Milk Protocols/SOPs Attached FERN Laboratories with Rad Analytics Capability.pdf

From: Graham, Ron [mailto:Ron.Graham@fsis.usda.gov] Sent: Tuesday, April 05, 2011 2:32 PM To: EOC_Environmental_Unit@epamail.epa.gov Cc: albert.wiley@orise.orau.gov; Ansari, Armin J. (CDC); (0)(6) Brennan, Inga; Whitcomb, Robert (CDC); Maher, Carmen; Connell, Carol (ATSDR); cmht@nnsa.doe.gov; cmw6@CDC.GOV; Miller, Charles W. (CDC); Liles.Darrell@epamail.epa.gov; Dixon, Teri; Tupin.Edward@epamail.epa.gov; Morrison, Ellen F; Jablonowski.Eugene@epamail.epa.gov; Hornsby-Myers, Jennifer L. (CDC); Ferris.John@dol.gov; Brozowski.George@epamail.epa.gov; Allen Jr, George T; Evans, Donna L. (CDC); gordon.s.cleveland@aphis.usda.gov; Dixon, John E. (CDC); ira.s.reese@cbp.dhs.gov; Cherniack, James; james.williams@dot.gov; Nemhauser, Jeffrey B. (CDC); john.jensen@dm.usda.gov; john.pavek@wdc.usda.gov; (b)(6) (b)(6) Anderson, Jeri L. (CDC); Smallwood, Karen R; Keith, Sam (ATSDR); Veal.Lee@epamail.epa.gov; LIA11 Hoc; Brandon, Lou; Causgrove.Maggie@epamail.epa.gov; Russo, Mark; Matthews, Denise - OSHA; Brooks, Michael D. (ATSDR); menarm@nv.doe.gov; Menon.Ramesh@dol.gov; michael.howe@dhs.gov; Noska, Michael A; Buzzell, Jennifer J. (CDC); Charp, Paul (ATSDR); Hansen, Patricia A; patrick.simmons@dhs.gov; paul.ward@fema.gov; pemberwi@nv.doe.gov; peter.a.petch@aphis.usda.gov; Hoc, PMT12; Evans, Rachel T; Funk, Renee H. (CDC); Goodman.Roger@epamail.epa.gov; DeCair.Sara@epamail.epa.gov; Hudson.Scott@epamail.epa.gov; Hargrave, Scotty L; Scott.Lough@ams.usda.gov; stephen.chase@dhs.gov; Jones, Terri; Timothy.Greten@dhs.gov; Radke, Vincent J. (CDC); Howard King, Vinetta; Lotz, William G. (CDC); Cunningham, William C

Subject: RE: For ATeam: Milk Protocols/SOPs Attached

<<FERN Laboratories with Rad Analytics Capability.pdf>>

Ron Graham Senior Food Defense Analyst FSIS Radiological Advisory Team

Food Defense Assessment Staff Office of Data Integration and Food Protection Food Safety and Inspection Service. US Department of Agrículture

Room 409, 3rd Floor 901 D Street, Southwest Washington, DC 20024

Email: ron.graham@fsis.usda.gov



From: Tiburcio.Michelle@epamail.epa.gov [mailto:Tiburcio.Michelle@epamail.epa.gov] On Behalf Of EOC_Environmental_Unit@epamail.epa.gov Sent: Tuesday, April 05, 2011 11:18 AM

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To: EOC_Environmental_Unit@epamail.epa.gov

Cc: albert.wiley@orise.orau.gov; Ansari, Armin J. (CDC); (b)(6) (b)(6) Brennan, Inga; Whitcomb, Robert (CDC); Maher, Carmen; Connell, Carol (ATSDR); cmht@nnsa.doe.gov; cmw6@CDC.GOV; Miller, Charles W. (CDC); Liles.Darrell@epamail.epa.gov; Dixon, Teri; Tupin.Edward@epamail.epa.gov; Morrison, Ellen F; EOC_Environmental_Unit@epamail.epa.gov; Jablonowski.Eugene@epamail.epa.gov; Hornsby-Myers, Jennifer L. (CDC); Ferris.John@dol.gov; Brozowski.George@epamail.epa.gov; Allen Jr, George T; Evans, Donna L. (CDC); gordon.s.cleveland@aphis.usda.gov; Dixon, John E. (CDC); ira.s.reese@cbp.dhs.gov; Cherniack, James; james.williams@dot.gov; Nemhauser, Jeffrey B. (CDC); john.jensen@dm.usda.gov; john.pavek@wdc.usda.gov; (b)(6); Anderson, Jeri L. (CDC); Smallwood, Karen R; Keith, Sam (ATSDR); Veal.Lee@epamail.epa.gov; lia11.hoc@nrc.gov; lkb1@nrc.gov; Causgrove.Maggie@epamail.epa.gov; Russo, Mark; Matthews, Denise - OSHA; Brooks, Michael D. (ATSDR); menarm@nv.doe.gov; Menon.Ramesh@dol.gov; michael.howe@dhs.gov; Noska, Michael A; Buzzell, Jennifer J. (CDC); Charp, Paul (ATSDR); Hansen, Patricia A; patrick.simmons@dhs.gov; paul.ward@fema.gov; pemberwj@nv.doe.gov; peter.a.petch@aphis.usda.gov; pmt12.hoc@nrc.gov; Evans, Rachel T; Funk, Renee H. (CDC); Goodman.Roger@epamail.epa.gov; Graham, Ron; DeCair.Sara@epamail.epa.gov; Hudson.Scott@epamail.epa.gov; Hargrave, Scotty L; Scott.Lough@ams.usda.gov; stephen.chase@dhs.gov; Jones, Terri; Timothy.Greten@dhs.gov; Radke, Vincent J. (CDC); Howard King, Vinetta; Lotz, William G. (CDC); Cunningham, William C Subject: For ATeam: Milk Protocols/SOPs Attached

--<< File: Doc-10-gamma spect-Rev3-12-14-2010-unc.pdf >> << File: milk procedure.pdf >> << File: Milk one-pager.docx >> << File: Doc-50-SampleReceiptLogin-Rev3-05-29-2009-unc.pdf >> << File: Doc-51-PrepEnvSamples-Rev3-05-26-2009-unc.pdf >>

2



Results:

Below you will find the results of your query. This is the normal analyte view. For each analyte chosen, the list of labs with the analyte registered and capacity information is available. For detailed analyte information on a specific lab, click on the lab's name in the table. To view the labs that have all analytes selected registered or to view the labs that do not have the analytes selected, click the appropriate link below.

This information is pulled from the analyte being checked by the lab, and no other information needing to be entered.

Search Criteria:

Disciplines: Radiological

Analytes: Americium 241, Camma emitters, Gamma emitters (including FDA DILs Cs 134, Cs 137, I 131 Ru (103 + 106), Gross alpha analysis, Gross beta analysis, Plutonium isotopes (including Pu 239/238/240), Polonium 210, Strontium isotopes (including Sr 89/Sr 90) Regions: Central Region, Northeast Region, Pacific Region, Southeast Region, Southwest Region CAP Status: All Labs

Current View: Individual Selected View - labs that have each individual analyte selected.

Radiological Analytes

Americium 241

Central Region Labs:

8 of 10 Radiological Labs Found 1 other Labs Found

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Illinois Emergency Management Agency	4	3	S.	0	0	0	7	7
Indiana State Department of Health Laboratories	4	V	×	0	0	0	40	40
Maryland Department of Health and Mental Hygiene, Laboratories Adminstration	· · · · ·	4	×.	5	0	4	10	10
Minnesota Dept. of Health	×	¥	V	0	0	0	0	0
New Jersey Department of Health and Senior Services, Division of Public Health and Environmental Laboratories	÷,	st in the second	Ø	0	0	0	200	200
U.S. DoD National Guard Weapons of Mass Destruction Civil Support Team (WMD-CST) Laboratory Program	st .	Ś	ø	0	0	0	56	0
US Customs and Border Protection	Ø	Ø	ø	N/A	N/A	N/A	N/A	N/A

	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Wisconsin State Laboratory of Hygiene, University of WI-Madison	s -	A	Wern	0	. 0	. 0	840	60
Virginia Division of Consolidated Laboratory Services	Ý	s,	٢	0	0	0	100	40

T	TOTALS:	9	7 5	5	0	4	1253	357
•••••		 	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		ang District of Anderson Action (pg. 1975) and a 1989 from Without		

Northeast Region Labs:

4 of 6 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

_ab Name	Radiological	LRN Decodesticited	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Commonwealth of Massachusetts Radiation Control Program/MA Environmental Radiation Laboratory			.	2	1	5	10	10
FDA Winchester Engineering & Analytical Center (WEAC)	v	Ø		0	0	0	48	12
NY Wadsworth Center	 Image: A second s	× .	s de la companya de l	3	1	5	20	6
Vermont Department of Health Laboratory	 Image: A second s	4	0	0	0	.0	0	0

	Labs	LRN Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
	TOTALS: 4	2 3	5	2	10	78	28
1							

Pacific Region Labs:

3 of 4 Radiological Labs Found 3 other Labs Found

	Radiological Lab	LRN Urden adala	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
California Department of Public Health, Food and Drug Laboratory Branch	Ø	8	8	N/A	N/A	N/A	N/A	N/A
FDA Pacific Regional Laboratory - Southwest (PRL-SW)	Ø	s.	Ø	0	0	0	0	0
Idaho State University Environmental Monitoring Laboratory	V	Ø	٢	0	0	0	30	30
Oregon State Radiation Protection Services	S.	Ø	¥	0	0	0	3	2
State of Washington, Department of Health Public Health Laboratories	4	¥	Ś	0	0	2	30 ·	30
US Customs and Border Protection - San Francisco	٢	3	G	N/A	N/A	N/A	N/A	N/A

	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	<u>;</u> 6	2	2	0	0	2	63	62

Southeast Region Labs:

4 of 5 Radiological Labs Found 0 other Labs Found

= FERN Inactive Status

Lab Name	Radiological Lab	LINN	Food	Samples Food	Samples Feed	Samples Other	Emergency S	Screen Emergency Confirm	: fotosaçi i
Florida Department of Health Bureau of Radiation Control	\$	0	٢	0	0	0	10	3	· · · ·
Georgia Institute of Technology	V	0	√	0	0	0	15	3	
North Carolina State Laboratory of Public Health	<u> </u>	<	Ø	0	0	0	0	0	
South Carolina Department of Health and Environmental Control Bureau of		Ø	0	0	0	0	0	0	
Environmental Services: Radiological		antaj Stantaj							

		Labs I	LRN Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm	
ΤΟΤΑ	L S:	4	1 1	0	0	0	25	6	

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Southwest Region Labs:

8 of 9 Radiological Labs Found 0 other Labs Found

Lab Name	Radiological Lab	LRN Maria	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Arkansas Department of Health Public Health Laboratory	V	S.	4	1	0	0	12	12
Colorado Department of Public Health and Environment	V	V	¥.	0	0	3	20	10
Kansas Health and Environmental Laboratories	×	Ø	0	0	0	0	4	4
Sandia National Laboratories - Radiation Protection Sample Diagnostics	St.	3	Y	0	5	15	50	12
State Hygienic Laboratory at the University of Iowa	4	Ś	3	0	0	0	0	0
Texas Department of State Health Services	×	3	×.	0	0	0	16	12
US Air Force School of Aerospace Medicine/Radiochemistry Laboratory (USAFSAM/OEHHL)	\$	٩	ø	N/A	N/A	N/A	N/A	N/A
Utah Department of Health Laboratory	**	ø	S.	0	0	0	0	Ö

	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	8	3	.5	_ 1	5	18	102	50

Gamma emitters

No labs registered with this analyte.

Gamma emitters (including FDA DILs Cs 134, Cs 137, I 131 Ru (103 + 106)

Central Region Labs:

10 of 10 Radiological Labs Found 2 other Labs Found

ab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
FDA/CFSAN College Park Lab	Ø	Ø	series and a million	N/A	N/A	N/A	N/A	N/A
FDA/CFSAN College Park Lab	٢	0	w.	N/A	N/A	N/A	N/A	N/A
Illinois Emergency Management Agency		٢	Y	10	1	40	200	7
Indiana State Department of Health Laboratories	.	•	¢	4	0	0	80	80
Maryland Department of Health and Mental Hygiene, Laboratories Adminstration	Y	V	×.	10	0	50	40	40
Minnesota Dept. of Health	v	~	1	4	0	15	1800	1800
New Jersey Department of Health and Senior Services, Division of Public Health and Environmental Laboratories	.		ser a	0	0	20	120	120
Ohio Department of Health Laboratory	× .	8	1	0	0	25	10	[`] 10
Ohio Department of Health Laboratory	V	S.	Set .	• . • 0 • •	0	25	10	10
U.S. DoD National Guard Weapons of Mass Destruction Civil Support Team (WMD-CST) Laboratory Program	S	Y en		0	0	0	56	0
US Army ECBC Environmental Monitoring Laboratory	it get	٢	٢	0	0	1	10	10
US Customs and Border Protection	٢	0	٢	N/A	N/A	N/A	N/A	N/A
Virginia Division of Consolidated Laboratory Services	s.	S.	s.	0	0	20	40	40
Wisconsin State Laboratory of Hygiene, University of WI-Madison	₩ ^o	¥	s.	7	0	45	730	50
p man anna 2014 anna anna anna anna anna anna anna an	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
	12							

Northeast Region Labs:

6 of 6 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Commonwealth of Massachusetts Radiation Control Program/MA Environmental Radiation Laboratory	,	3		2	1	5	10	10
FDA Winchester Engineering & Analytical Center (WEAC)		٢	x	55	Ô	с Сталария	6000	6000
NY Wadsworth Center	\checkmark	¥	¥.	10	1	100	200	8
New Hampshire Department of Public Health	i i i i i i i i i i i i i i i i i i i	4	4	5	3	0	25	25
State of Maine Health and Environmental Testing Lab	 	Ø	<	0	0	10	10	10
Vermont Department of Health Laboratory		Ý	<	2	1	100	25	10
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	6	3	6	73	6	216	6270	6063

Pacific Region Labs:

3 of 4 Radiological Labs Found 3 other Labs Found

Lab Name	Radiological Lab		Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
California Department of Public Health, Food and Drug Laboratory Branch	Ø	٢	Ø	N/A	N/A	N/A	N/A	N/A
FDA Pacific Regional Laboratory - Southwest (PRL-SW)	Ø	 Image: A second s	٢	0	Q	0	0	0
Idaho State University Environmental Monitoring Laboratory	V	٢	Ý	0	0	90	400	400
Oregon State Radiation Protection Services	West .	Ø	V	. 3	0	1	. 5	2
State of Washington, Department of Health Public Health Laboratories	4	Ý	s.	6	0	. 14	60	60
US Customs and Border Protection - San Francisco	G	Ø	Ø	N/A	N/A	N/A	N/A	N/A
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	6	2	3	9	0	105	465	462

Southeast Region Labs:

5 of 5 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food		Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Florida Department of Health Bureau of Radiation Control	,	٢	×.	10	0	50	20	4
Georgia Institute of Technology	<	3	×	0	0	0	15	3
North Carolina State Laboratory of Public Health	.	Ý	`	4	0	100	4	4
South Carolina Department of Health and Environmental Control Bureau of Environmental Services: Radiological	ý	0	\$	10	0	140	300	20
Tennessee Department of Health Nashville Laboratory Services		<	~	5	0	100	100	100
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	5	2	5	29	0	390	439	131

Southwest Region Labs:

9 of 9 Radiological Labs Found 0 other Labs Found

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Arkansas Department of Health Public Health Laboratory	~	V	V	1	0	0	12	12
Colorado Department of Public Health and Environment	V	V	Ś	0	0	5	20	20
Kansas Health and Environmental Laboratories	~	3	V	1	1	10	4	4
Missouri State Public Health Laboratory	s.	Ś	×	0	0	0	25	10
Sandia National Laboratories - Radiation Protection Sample Diagnostics	a de traine de la constante de	Ø	\$	0	20	200	100	50
State Hygienic Laboratory at the University of Iowa	s.	4	V	0	0	1	10	10
Texas Department of State Health Services	s and a second s	Ċ	and the second se	0	0	10	9	. 9
US Air Force School of Aerospace Medicine/Radiochemistry Laboratory (USAFSAM/OEHHL)	iger.	Ø	est.	N/A	N/A	N/A	N/A	N/A
Utah Department of Health Laboratory	Stran.	0	Warn	0	0	0	0	0

		Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
ł.	TOTALS:	9	4	9	2	21	226	180	115

Gross alpha analysis

Central Region Labs:

10 of 10 Radiological Labs Found 1 other Labs Found

= FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Illinois Emergency Management Agency	Ś	3	and a second	0	0	40	7	7 7
Indiana State Department of Health Laboratories		<	 Image: A second s	0	0	0	100	100
Maryland Department of Health and Mental Hygiene, Laboratories Adminstration	 	Ś	4	5	0	0	10	10
Minnesota Dept. of Health		<	8	0	0	60	240	240
New Jersey Department of Health and Senior Services, Division of Public Health and Environmental Laboratories			3	0	0	40	200	200
Ohio Department of Health Laboratory		\$	0	0	0	25	10	10
U.S. DoD National Guard Weapons of Mass Destruction Civil Support Team (WMD-CST) Laboratory Program		~	Ø	0	0.	0	56	0
US Army ECBC Environmental Monitoring Laboratory	s	3		· 0	0	1	10	10
US Customs and Border Protection	3	Ø	0	N/A	N/A	N/A	N/A	N/A
Virginia Division of Consolidated Laboratory Services	4	×.	0	0	. 0	80	160	160
Wisconsin State Laboratory of Hygiene, University of WI-Madison	¥	Ý	¥	0	0	-65	840	60
n Martines and an ann an an an an an an an Ann a	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	11	8	4	5	0,	311	1633	797

Northeast Region Labs:

5 of 6 Radiological Labs Found 0 other Labs Found

Lab Name	Radiological LRN Lab	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
	the first of the same by the first of			A . A		1 A	

Commonwealth of Massachusetts Radiation Control Program/MA Environmental Radiation Laboratory		3	Ø	0	0	0	1	. 1
FDA Winchester Engineering & Analytical Center (WEAC)	4	3	×,	0	0	0	550	550
NY Wadsworth Center		×	S.	5	1	200	50	3
New Hampshire Department of Public Health	e de la compañía de l Compañía de la compañía	V	`	5	.3	0	25	25
Vermont Department of Health Laboratory	4	 Image: A second s	Ø	0	0	50	25	10
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	5	3	់ខ	10	4	250	651	589

Pacific Region Labs:

3 of 4 Radiological Labs Found 5 other Labs Found

= FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Alaska Public Health Laboratory	0	Ø	0	0	0	0	0	0
California Department of Public Health, Food and Drug Laboratory Branch	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3	3	N/A	N/A	N/A	N/A	N/A
FDA Pacific Regional Laboratory - Southwest (PRL-SW)	3	5	Ø	0	. O	0	0	0
Fresno County Public Health Laboratory	3	5	Ø	0	0	0	0	Ō
ldaho State University Environmental Monitoring Laboratory	se s	3		0	0	20	90	90
Oregon State Radiation Protection Services	Ś	ġ	¥	0	0	0	5	2
State of Washington, Department of Health Public Health Laboratories	s.	Ś	Ś	0	0	65	8	8
US Customs and Border Protection - San Francisco	Ø	Ø	3	N/A	N/A	N/A	N/A	N/A
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
			_					

			Labs	LRN	Food	Food	Feed	Other	Screen	Confirm	
	TOTALS:		8	3	2	0	0	85	103	100	
i.	a barde billet for the data a cleared and your scare, a star is managed and the top to Martin Webball and the w	here a service of									mi

Southeast Region Labs:

5 of 5 Radiological Labs Found 0 other Labs Found

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Florida Department of Health Bureau of Radiation Control	4	Ø	¥	0	0	20	50	19
Georgia Institute of Technology	· 🗸	٨	¥	0	0	100	40	4
North Carolina State Laboratory of Public Health	S	¥ .	×	4	0	0	4	4
South Carolina								
Department of Health and Environmental Control Bureau of	 Image: A second s	0	0	0	0	250	300	10
Environmental Services: Radiological		. •			• •	· · ·		· · · ·
Tennessee Department of Health Nashville Laboratory Services	V	×	. 4	5	0	100	100	100

	Labs LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	5 2	4	9	0	470	494	137

Southwest Region Labs:

7 of 9 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

Lab Name Lizeación i Sola concerción districtura i Succeso	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Arkansas Department of Health Public Health Laboratory	~	√	Ś	0	0	24	12	12
Colorado Department of Public Health and Environment	V	×.	V	0	0	20	20	20
Kansas Health and Environmental Laboratories	×	Ø	Ø	0	0	30	10	10
Missouri State Public Health Laboratory	T	V	Ser.	Ó	0	0	25	10
Sandia National Laboratories - Radiation Protection Sample Diagnostics	s.	Ø	Ś	0	0	9000	1500	300
State Hygienic Laboratory at the University of Iowa	· 🗸	s s	. 🗸	0	0	28	10	10
US Air Force School of Aerospace Medicine/Radiochemistry Laboratory (USAFSAM/OEHHL)	Ś	Ø	s.	N/A	N/A	N/A	N/A	N/A
	Labs	LRN	Food	Samples	Samples	Samples	Emergency	Emergency

	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	7	•	6	0	0	9102	1577	362

Gross beta analysis

Central Region Labs:

9 of 10 Radiological Labs Found 1 other Labs Found

= FERN Inactive Status

Lab Name Wester all and an all all and an all all and an all all and an all all all and an all all all and and all all a	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Biosciences Research Laboratory		0	0	0	0	0	0	0
Illinois Emergency Management Agency	Topolo .	0	Ser.	0	. 0	30	7	7
Indiana State Department of Health Laboratories	 Image: A second s	¥	st.	0	· 0	0	100	100
Maryland Department of Health and Mental Hygiene, Laboratories Adminstration	.	4	.	5	0	0	10	10
Minnesota Dept. of Health	 	V	Ø	0	0	60	240	240
New Jersey Department of Health and Senior Services, Division of Public Health and Environmental Laboratories	`	.	3	0	0	40	200	200
Ohio Department of Health Laboratory	Ś	×	Ø	0	0	25	10	10
U.S. DoD National Guard Weapons of Mass Destruction Civil Support Team (WMD-CST) Laboratory Program		~	3	0	0	0	56	0
Virginia Division of Consolidated Laboratory Services	4	~	٢	0	0	80	160	160
Wisconsin State Laboratory of Hygiene, University of WI-Madison	4	eger.	v	0	0	65	840	60
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	10	8	4	5	0	300	1623	787

Northeast Region Labs:

5 of 6 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

Lab Name ศารษณีเห็นระบบการแล้วขึ้นรู้เร็าในสีมีเหตุประเทศ	Radiological Lab	LRN LANA SA	Food Saattaa	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Commonwealth of Massachusetts Radiation Control Program/MA Environmental Radiation Laboratory	. 🧹	Ø	Ø	0	0	0	1	1
FDA Winchester Engineering & Analytical Center (WEAC)	×	0	S.	0	0	0	550	550
NY Wadsworth Center	s s	Staf -	and the second	5	1	200	50	3
New Hampshire Department of Public Health	¥*	* ****	9.×*	5	3	0	25	25

Vermont Department of Health Laboratory	*	×	Ø	0	0	10	25	10
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	5	3	3	10	4	210	651	589

Pacific Region Labs:

3 of 4 Radiological Labs Found 3 other Labs Found

3

FERN Inactive Status Sec. 2.

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
California Department of Public Health, Food and Drug Laboratory Branch	Ø	3	٢	N/A	N/A	N/A	N/A	N/A
FDA Pacific Regional Laboratory - Southwest (PRL-SW)	0	V	3	0	0	0	0	0
Fresho County Public Health Laboratory	Ø	v	Ø	0	0	0	0	0
Idaho State University Environmental Monitoring Laboratory		3	3	0	0	20	90	90
Oregon State Radiation Protection Services	S	٢	1	0	0	0	5	2
State of Washington, Department of Health Public Health Laboratories		* *	y	0	0	65	8	8
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	6	3	2	0	0	85	103	100

Southeast Region Labs:

5 of 5 Radiological Labs Found 1 other Labs Found

FERN Inactive Status

Lab Name Florida Department of Agriculture and Consumer Services, Food Safety Division, Bureau of Chemical Residue Laboratories	Radiological Lab	LRN ©	Food valuestinte	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Florida Department of Health Bureau of Radiation Control	¥	٢	đ.	0	0	20	50	19
Georgia Institute of Technology	s.	0	Ser.	0	0	100	40	4
North Carolina State Laboratory of Public Health	s.	√	Ster.	4	0	0	4	4

TOTALS:	Labs	s LRN 2	Food 5	Samples Food 29	Samples Feed 0	Samples Other 470	Emergency Screen 544	Emergency Confirm 137
Tennessee Department of Health Nashville Laboratory Services	Ý	\$	60°	5	0	100	100	100
South Carolina Department of Health and Environmental Control Bureau of Environmental Services: Radiological	Ý		Ø	O.,	0	250	300	10

Southwest Region Labs:

7 of 9 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

_ab Name	Radiological Lab	LRN satudiana	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Arkansas Department of Health Public Health Laboratory		5aun ann	<i>.</i>	,	0	12	. 12	12
Colorado Department of Public Health and Environment		1	 	0	0	30	20	20
Kansas Health and Environmental Laboratories	e e e e e e e e e e e e e e e e e e e	0	Ø	0	0	15	10	10
Missouri State Public Health Laboratory	~	1	×	0	0	0	25	10
Sandia National Laboratories - Radiation Protection Sample Diagnostics	\$		<	0	0	9000	1500	300
State Hygienic Laboratory at the University of Iowa	s.	< C	V	0	0	2	10	10
US Air Force School of Aerospace Medicine/Radiochemistry Laboratory (USAFSAM/OEHHL)	4 **	Ø	\$	N/A	N/A	N/A	N/A	N/A
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	. 7	4	6	0	0	9059	1577	362

Plutonium isotopes (including Pu 239/238/240)

Central Region Labs:

6 of 10 Radiological Labs Found 0 other Labs Found

= FERN Inactive Status

	and the second states of the second	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm	
1. A - 1.	Illinois Emergency Management Agency	¥	٢	i ger	0	0	0	7	7	
	Indiana State Department of Health Laboratories	¥	1	¥	0	0	0	20	20	And a statement of the second

TOTALS	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen 933	Emergency Confirm 97
Wisconsin State Laboratory of Hygiene, University of WI-Madison	<	Ý		0	0	0	840	60
U.S. DoD National Guard Weapons of Mass Destruction Civil Support Team (WMD-CST) Laboratory Program	<u>`</u>		3	0	0	0	56	0
New Jersey Department of Health and Senior Services, Division of Public Health and Environmental Laboratories	S.	~	Ø	· 0	0	0	0	0
Maryland Department of Health and Mental Hygiene, Laboratories Adminstration	Ś	¥.	Ś	5	0	0	10	10

Northeast Region Labs:

3 of 6 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

Lab Name	Radiological Lab		Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
EDA Winchester Engineering & Analytical Center (WEAC)		Ø	~	0	` 0	0	48	12
NY Wadsworth Center	 Image: A second s	4	v	0	0	1	2 i 4	4
Vermont Department of Health Laboratory	 Image: A second s	 	Ø	0	0	0	0	0
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	3	2	2	0	• 0	1	52	16

Pacific Region Labs:

2 of 4 Radiological Labs Found 3 other Labs Found

FERN Inactive Status

Lab Name พ่อมีราวสถิติรายสถายมาต่องเหตุละเป็นพระเหตุลาย	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
California Department of Public Health, Food and Drug Laboratory Branch		3	٢	N/A	N/A	N/A	N/A	N/A
FDA Pacific Regional Laboratory - Southwest (PRL-SW)	٢	4	0	0	0	0	0	0
Oregon State Radiation Protection Services	S.	Ø	V	0	0	0	4	2

US Customs and Border Protection - San Francisco	٢	Ø	0	N/A	<i>N/A</i>	N/A	N/A	N/A
TOTALS:	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen 34	Emergency Confirm 32

0 other Labs Found

FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Elorida Department of Health Bureau of Radiation Control	v	Ø	0	0	0	1 · ·	20	3
Georgia Institute of Technology		0	 Image: A second s	0	0	0 ′	12	12
South Carolina Department of Health and Environmental Control Bureau of Environmental Services: Radiological			3	:0	0	0	0	0
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	3	0	1	0	0	1	32	15

Southwest Region Labs:

6 of 9 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

Lab Name	Radiological	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Arkansas Department of Health Public Health Laboratory	Ý	S.	Ø	0	0	0	0	0
Colorado Department of Public Health and Environment	Ś	Sec.	4	0	0.	5	20	20
Sandia National Laboratories - Radiation Protection Sample Diagnostics	5	Ø	V	0	· 0	12	24	12
State Hygienic Laboratory at the University of Iowa	S .	×.	3	0	0	0	0	0
Texas Department of State Health Services	set.	٢	Ś	0	0	0	16	12
US Air Force School of Aerospace Medicine/Radiochemistry Laboratory (USAFSAM/OEHHL)	¢.	Ø	s	N/A	N/A	N/A	N/A	N/A

Sampa Planta Ma			Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm	
	TALS:	•	6		4	0	0	17	60	44	
Brown detward o	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and an	τ	ar angka gar " i sti yanta garaya		- en-angelen som mittel, i angeletigt for mittengan gare	*) (*4) (* 4) (* 7) (* 4) (* 160 ⁰⁰ **********************************	n 1994 and 1994 and 1994 and 1994 and 1994 and 1994 and 1997 and 1997 and 1997 and 1997 and 1997 and 1997 and 1	a a h f da cal a san a f an agus a gu agus a dh dha dhadha dhaga f da ca	an an agus an an an an Anna an Anna an Anna Anna	ч.,

Polonium 210

Central Region Labs:

6 of 10 Radiological Labs Found 0 other Labs Found

= FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Illinois Emergency Management Agency	Ý	Ø	 	0	0	0	7	7
Indiana State Department of Health Laboratories		\$	6	0	0	0	20	20
Maryland Department of Health and Mental Hygiene, Laboratories Adminstration	.	1	0	5	0	2	10	10
New Jersey Department of Health and Senior Services, Division of Public Health and Environmental Laboratories		- - - - - - - - - - - - - - - - - - -	2	Ö	0		80	80
U.S. DoD National Guard Weapons of Mass Destruction Civil Support Team (WMD-CST) Laboratory Program	.	1		0	0	0	56	0
Wisconsin State Laboratory of Hygiene, University of WI-Madison		1	0	0	0	5	840	60
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	6	5	1	5	0	8	1013	177

Northeast Region Labs:

3 of 6 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

Lab Name	Radiological Lab	LRN Respectively	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
FDA Winchester Engineering & Analytical Center (WEAC)	4	Ø	St.	0	0	0	48	12
NY Wadsworth Center	F	4	4	0	0	Ō	4	4
Vermont Department of Health Laboratory	4	Ľ	Ø	0	0	0	0	0
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	3	2	2	0	0	0	52	16

Pacific Region Labs:

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2 of 4 Radiological Labs Found 2 other Labs Found

= FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
California Department of Public Health, Food and Drug Laboratory Branch	3	3	Ø	N/A	N/A	N/A	N/A	N/A
FDA Pacific Regional Laboratory - Southwest (PRL-SW)	Ø	 Image: A start of the start of		0	0	0	0	0
Oregon State Radiation Protection Services	4	3	5	1	0	0	2	2
State of Washington, Department of Health Public Health Laboratories				0	0	0	30	30
TOTALS:	Labs	LRN	Food 2	Samples Food	Samples Feed	Samples Other	Emergency Screen 32	Emergency Confirm 32

Southeast Region Labs:

4 of 5 Radiological Labs Found 0 other Labs Found

= FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Florida Department of Health Bureau of Radiation Control	<	3	0	0	0	20	50	19
Georgia Institute of Technology	 Image: A second s	0	 Image: A second s	0	0	0	12	12
North Carolina State Laboratory of Public Health	Ý	V	3	0	0	0	0	0
South Carolina Department of Health and Environmental Control Bureau of		3		0	0	0	0	.0
Environmental Services: Radiological				· · ·		•		·
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	4	1	1	0	0	20	62	31

Southwest Region Labs:

5 of 9 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

. Shere we are a second of the		Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm	
	Arkansas Department of Health Public Health Laboratory	Ś	S.	3	0	0	0	0	0	

Colorado Department of Public Health and Environment	V	¥	Ser.	0	0	0	10	10
State Hygienic Laboratory at the University of Iowa	V	V	0	0	0	0	0	0
Texas Department of State Health Services	4	3	¥.	0	0	0	16	12
US Air Force School of Aerospace Medicine/Radiochemistry Laboratory (USAFSAM/OEHHL)		Ø		N/A	N/A	N/A	N/A	N⁄A
TOTALS:	Labs 5	LRN 3	Food 2	Samples Food 0	Samples Feed 0	Samples Other 0	Emergency Screen 26	Emergency Confirm 22

Strontium isotopes (including Sr 89/Sr 90)

Central Region Labs:

8 of 10 Radiological Labs Found 0 other Labs Found

= FERN Inactive Status

Lab Name with the market watched for the second state of the contract of the second state of the second state of the second	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Illinois Emergency Management Agency	, consistent and a second statements	CO.	- natur in a second	. 20 0000000000000000000000000000000000		0	10	10
Indiana State Department of Health Laboratories		 Image: A start of the start of	5	0	0	0	20	20
Maryland Department of Health and Mental Hygiène, Laboratories Adminstration	X	4	**	2	0	0	4	4
Minnesota Dept. of Health		V	S	2	0	4	12	12
New Jersey Department of Health and Senior Services, Division of Public Health and Environmental Laboratories		Ś		0	0	1	40	40
U.S. DoD National Guard Weapons of Mass Destruction Civil Support Team (WMD-CST) Laboratory Program		V	Ø	0	0	0	56	0
Virginia Division of Consolidated Laboratory Services	×.	s,	Ś	0	0	1	20	20
Wisconsin State Laboratory of Hygiene, University of WI-Madison	s s	4	Ś	5	0	3	120	8
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	8	7	6	10	0	9	282	114

Northeast Region Labs:

3 of 6 Radiological Labs Found 0 other Labs Found

= FERN Inactive Status

	Radiological	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
FDA Winchester Engineering & Analytical Center (WEAC)	√	Ø	V	45	• 0	0	155	155
NY Wadsworth Center		V	ď	6	0	30	20	6
Vermont Department of Health Laboratory	Ś	4	0	0	0	0	0	0
TOTALS:	Labs 3	LRN 2	Food 2	Samples Food 51	Samples Feed	Samples Other 30	Emergency Screen 175	Emergency Confirm 161

Pacific Region Labs:

3 of 4 Radiological Labs Found 2 other Labs Found

= FERN Inactive Status:

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
California Department of Public Health, Food and Drug Laboratory Branch	ø	Ø	٨	N/A	N/A	N/A	N/A	N/A
FDA Pacific Regional Laboratory - Southwest (PRL-SW)	Ø	4	Ø	0	0	0	0	0
Idahō State University Environmental Monitoring Laboratory	.	Ø		0	0	0	25	25
Oregon State Radiation Protection Services	~	3	Ś		0	0	3	2
State of Washington, Department of Health Public Health Laboratories	Ś	\$	¥	3.	0	3	18	18
	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	5	2	. 2	4	0	3	46	45

Southeast Region Labs:

5 of 5 Radiological Labs Found 0 other Labs Found

FERN Inactive Status

***********************	Lab Name	Radiological Lab	LRN art. Autorat	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
and the second second second	Health Bureau of Radiation Control	¥.	0	Ser.	2	0	2	16	4
Course of the Property of the	Georgia Institute of Technology	×	3	S.	0	0	0	8	2
A REAL OF A REAL PROPERTY.	North Carolina State Laboratory of Public Health	×	¥*	٢	0	0	0	0	0

	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Tennessee Department of Health Nashville Laboratory Services	~	\$	s -	2	0	20	20	20
South Carolina Department of Health and Environmental Control Bureau of Environmental Services: Radiological		Ø		0	0	0	0	0

4

3

22

44

26

0

Southwest Region Labs:

TOTALS:

8 of 9 Radiological Labs Found 0 other Labs Found

= FERN Inactive Status

Lab Name	Radiological Lab	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
Arkansas Department of Health Public Health Laboratory	4	~	~	0	0	4	12	12
Colorado Department of Public Health and Environment		~	Ø	0	0	0	. 10	10
Kansas Health and Environmental Laboratories	v	3	V	0	0	0	8	4
Sandia National Laboratories - Radiation Protection Sample Diagnostics		8	V	0	0	12	120	, 24
State Hygienic Laboratory at the University of Iowa	V	st.	v	0	0	0	5	5
Texas Department of State Health Services	v	0	V	0	0	0	24	16
US Air Force School of Aerospace Medicine/Radiochemistry Laboratory (USAFSAM/OEHHL)	.	3	V	N/A	N/A	N/A	N/A	N/A
Utah Department of Health Laboratory	4	Ø	s e	0	0	0	0	0
•	Labs	LRN	Food	Samples Food	Samples Feed	Samples Other	Emergency Screen	Emergency Confirm
TOTALS:	. 8	3	7	0	0	16	179	71

Subject: Location:	FW: IA Low Level Radioactive Waste review Telecon: 703-695-4042, Passcode: 869823
Start:	Thu 4/7/2011 4:00 PM
End: Show Time As:	Thu 4/7/2011 5:00 PM Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Idar, Deanne J CIV OSD POLICY

For information only.

NRC will participate in a interagency call to discuss Low Level Radioactive Waste that may return to US from Japan.

----Original Appointment-----

From: Idar, Deanne J CIV OSD POLICY

Sent: Thursday, April 07, 2011 1:54 PM

To: Idar, Deanne J CIV OSD POLICY; 'eoc.epahq@epa.gov'; 'Bentz, Julie A.'; 'Eoc.Epahq@epamail.epa.gov'; 'RMTPACTSU_ELNRC'; 'RMTPACTSU_HHS'; 'RMTPACTSU_MLO'; 'RMTPACTSU_SRO'; 'DemingRM@state.gov'; 'NITOPS'; 'Connery, Joyce'; PMT03 Hoc; 'David Bowman'; 'Mustin, Tracy'; 'Szymanski, John'; 'Zerr, Thomas J.'; 'Regan, Sean P.'; 'Bahar, Michael'; Komp, Greg R Mr CIV USA HQDA ASO; 'gornjm@state.gov'; (b)(6)

(b)(6) ; 'Munning, Gregory A Capt Code 07, 07'; (b)(6) Aponte, Manuel COL OSD POLICY; Lane, Aikojean CIV OSD POLICY; Gross, Laura, CIV, OSD-POLICY; Malone, Stephen C CTR JCS J3; Owens, Janice; LIA03 Hoc; LIA02 Hoc; 'Tilden, Jay'; Hoc, PMT12; (b)(6) ; 'RMTPACTSU_DMP@ofda.gov'; Farrand, David E SEA04 04N; 'Steele, Jeffrey M CIV SEA 08 NR'; 'Douglas.Tonkay@em.doe.gov'; 'Janet.benini@dot.gov'; Curry, Michael R

Cc: 'Smith-Kevern, Rebecca'; 'McCaughey, Bill'; 'McGinnis, Edward'; 'Phillip J Finck' **Subject:** IA Low Level Radioactive Waste review

Subject: IA LOW Level Radioactive Waste review

When: Thursday, April 07, 2011 4:00 PM-5:00 PM (GMT-05:00) Eastern Time (US & Canada).

Where: Telecon: 703-695-4042; Passcode: 869823

ALCON:

Thanks to all that have responded. We have all 11 lines identified as follows.

EPA, DOS, and DOT - would you confirm whether or not someone could participate at 1600?

Updated Participant list follows:

- DOE: Mr. Doug Tonkay, LLW/MLLW team for Christine Gelles, DOE/EM HQ Office of Disposal Operations Office
- 2. DOE: Mr. Edward McGinnis, Nuclear Energy (NE)
- 3. DOE: Mr. Phillip Finck, INL
- 4. DOS: Ms. Janet Gorn (unconfirmed)
- 5. DOT: (Pending)

6. EPA: Mr. Dan Schultheisz (unconfirmed)

7. NRC: Ms. Janice Owens (unconfirmed)

8. NSS: Julie Bentz or Charles Miller

 DoD: Mr. Greg Komp, USA - HQDA ASO, DoD LLRW Disposition Advisory Committee Chair (unconfirmed)

- 10. DoD: OSD(P)/CBRN Deanne J. Idar and Laura Gross
- II. DoD: Naval Reactors: Jeff Steele and Dave Farrand for Steve Trautman, Deputy Director at Naval Reactors

PENDING:

1. OSTP: John Szymanski

Best, Deanne

All:

Thank you for your follow-up with POC names, and additional information. I have scheduled a 1600 EDT telecon today for us to review and identify next steps regarding the Low Level Radioactive Waste challenges.

Telephone: 703-695-4042 / DSN (b)(6)) Passcode: (c)(6)) Lines available: 11 total Facilitator: Deanne J. Idar

We are limited to only 11 lines available at that time, so I've identified slots for 8 representatives, with 3 lines remaining. For identified participants, please e-mail me if you will be unable to join us on the telecon. For others, please also e-mail if you would like to join us on the call.

Agenda: Address the 4 questions posed by the DoD LLRW Disposition Advisory Committee and identify next steps, as follows: Questions: 1. Will radwaste generated outside the hot, warm or plume zones be returned to Japan or treated as US generated waste? 2. Can this waste be declared 91b, "national defense" waste or do we need to treat as commercial low level radwaste? 3. If commercial, will we need import permit from NRC?

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4. Can we access DOE disposal sites?

Best, Deanne

 From:
 Collins, Elmo

 Sent:
 Wednesday, April 06, 2011 4:51 PM

 To:
 LIA02 Hoc

 Cc:
 LIA03 Hoc; Owen, Lucy; Quayle, Lisa

 Subject:
 RE: your BB phone# and emergency contact list

 For Elmo
 BB

 ICE info:
 ICE info:

(b)(6)

From: LIA02 Hoc Sent: Thursday, March 31, 2011 6:38 PM To: Collins, Elmo Cc: LIA03 Hoc Subject: your BB phone# and emergency contact list

Hi Elmo - Could you please reply all to this email and send your BB phone number, and an "in case of Emergency contact" for you to include:

Name of emergency contact,

Phone #,

Email address

US mail address

And if you have your flight information, your arrival date in Japan and your expected departure date.

Thank you.

Mugeh

On behalf of the International Liaison Team

From:	Vavoso, Thomas G CIV NAVSEA, 08 <
Sent:	7/ Thursday, April 07, 2011 6:17 AM
To:	RST01 Hoc; RST08 Hoc; RST09 Hoc; RST06 Hoc; Kepple, Alan C CIV NAVSEA, 08;
	BMPC_ECC.Contractor@unnpp.gov; Bingman, Bruce M CIV SEA 08 NR;
	alice.caponiti@nuclear.energy.gov; Herman, David R CIV NAVSEA, 08; Dei, Donald E CIV
	SEA 08 NR; dmodeen@epri.com; EventResponse@epri.com;
	GE.HitachiNuclearResponseTeam@ge.com; Szeto, Gordon CIV SEA 08 NR; Holahan,
	Vincent; inpoerc@inpo.org; inpoerctech@inpo.org; (b)(6)
	joel.pero.contractor@unnpp.gov; JohnE.Kelly@Nuclear.Energy.Gov; Steinhurgt, Laurel A
	CIV SEA 08 NR; lela.doyle.contractor@unnpp.gov; Richard.Stark@nuclear.er/ergy.gov;
	ROB.VERSLUIS@nuclear.energy.gov; Hoc, RST16; RST01B Hoc; RST03 Hog, RST07 Hoc;
	MoralesRA@state.gov; sal.golub@nuclear.energy.gov
Subject:	Re: SNL SFP4 MELCOR Calculation

Is anyone evaluating theories that do not require SPF4 to have been a source of hydrogen? Two such theories:

- U3 building pressurization prior to its explosion pushed hydrogen into U4 building via shared exhaust path to stack. Possible?

- reports (unconfirmed?) of welding gas bottles being stored in U4 building--earthquake damage causes gas release

TGV

From: RST01 Hoc <RST01.Hoc@nrc.gov>

To: RST08 Hoc <RST08.Hoc@nrc.gov>; RST09 Hoc <RST09.Hoc@nrc.gov>; RST06 Hoc <RST06.Hoc@nrc.gov>; RST09 Hoc <RST09.Hoc@nrc.gov>; Kepple, Alan C CIV NAVSEA, 08; Bettis Contacts <BMPC_ECC.Contractor@unnpp.gov>;. Bingman, Bruce M CIV SEA 08 NR; RST08 Hoc <RST08.Hoc@nrc.gov>; Caponiti DOE <alice.caponiti@nuclear.energy.gov>; Herman, David R CIV NAVSEA, 08; Dei, Donald E CIV SEA 08 NR; EPRI Dave Modeen <dmodeen@epri.com>; EPRI Event Response Center <EventResponse@epri.com>; GE Hitachi NucResponseTeam <GE.HitachiNuclearResponseTeam@ge.com>; Szeto, Gordon CIV SEA 08 NR; Holahan, Vincent <Vincent.Holahan@nrc.gov>; INPO ERC <inpoerc@inpo.org>; INPOERCTECH <inpoerctech@inpo.org>; (b)(6) >; Joel Pero (Bettis) <joel.pero.contractor@unnpp.gov>; Johne Kelly < johne.kelly@nuclear.energy.gov>; Steinhurst, Laurel A CIV SEA 08 NR; Lela Doyle (KAPL) <lela.doyle.contractor@unnpp.gov>; Richard Stark <Richard.Stark@nuclear.energy.gov>; Rob Versluis <ROB.VERSLUIS@nuclear.energy.gov>; Hoc, RST16 <RST16.Hoc@nrc.gov>; RST01B Hoc <RST01B.Hoc@nrc.gov>; RST03 Hoc <RST03.Hoc@nrc.gov>; RST07 Hoc <RST07.Hoc@nrc.gov>; Russell Morales <MoralesRA@state.gov>; Sal Golub <sal.golub@nuclear.energy.gov>; Bell, Stephen T CIV SEA 08 NR; Roberts, Thomas E CIV SEA 08 NR; Vavoso, Thomas G CIV NAVSEA, 08 Cc: FOIA Response.hoc Resource <FOIAResponse.hoc.Resource@nrc.gov> Sent: Thu Apr 07 04:30:44 2011

Subject: FW: SNL SFP4 MELCOR Calculation

From: Salay, Michael
Sent: Thursday, April 07, 2011 4:25 AM
To: RST01 Hoc
Cc: Giessner, John; Taylor, Robert; Bernhard, Rudolph; Blamey, Alan
Subject: SNL SFP4 MELCOR Calculation

1

The results of the preliminary SNL SFP4 MELCOR calculations assuming that the water drains from pool through fuel pool gates during earthquake are attached. Note that significant hydrogen generation is predicted to start 8 days after earthquake. Comments by SNL below.

-Mike

The problem was iniitiated with a starting water level drained down to 1-m above the fuel racks. This seems not quite enough initial draindown to explain the observed timing of explosion, but is getting close.

The calcualtion indicates a large Cs release.

Note that if this was the initial condition required to cause pool dryout at the time observed, then they should be having trouble keeping the pool covered at this point as the way I see it, the leak must be just above the top of the fuel.

We should keep asking the question, what is the water level in the SFP?

If the water level is very low, then the gamma shine above the pool should be remarkable.

If the water level is very high, then we have no way to explain the timing of pool dryout and fire that is assumed to have taken place on the 15th.

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Versluis, Rob <rob.versluis@nuclear.energy.gov></rob.versluis@nuclear.energy.gov>
Thursday, April 07, 2011 1:14 PM
Vavoso, Thomas G CIV NAVSEA, 08'; RST01 Hoc; RST08 Hoc; RST09 Hoc; RST06 Hoc;
Kepple, Alan C CIV NAVSEA, 08; BMPC_ECC.Contractor@unnpp.gov; Bingman, Bruce M
CIV SEA 08 NR; Caponiti, Alice; Herman, David R CIV NAVSEA, 08; Dei, Donald E CIV
SEA 08 NR; dmodeen@epri.com; EventResponse@epri.com;
GE HitachiNuclearResponseTeam@ge.com; Szeto, Gordon CIV SEA 08 NR; Holahan,
Vincent; inpoerc@inpo.org; inpoerctech@inpo.org; (b)(6)
joel.pero.contractor@unnpp.gov; Kelly, John E (NE); Steinhurst, Laurel A CIV SEA 08 NR;
lela.doyle.contractor@unnpp.gov; Stark, Richard; Hoc, RST16; RST01B Hoc; RST03 Hoc;
RST07 Hoc; MoralesRA@state.gov; Golub, Sal
RE: SNL SFP4 MELCOR Calculation

DOE provided and RST distributed an analysis of the explosion in U4, which should go a long way to answering your question. Not that there are any definite conclusions until more info becomes available.

Rob Versluis, PhD, DOE NE-71, 301-903-1890 (o)

From: Vavoso, Thomas G CIV NAVSEA, 08 [mailto: (b)(6) []

Sent: Thursday, April 07, 2011 6:17 AM

To: RST01.Hoc@nrc.gov; RST08.Hoc@nrc.gov; RST09.Hoc@nrc.gov; RST06.Hoc@nrc.gov; Kepple, Alan C CIV NAVSEA, 08; BMPC_ECC.Contractor@unnpp.gov; Bingman, Bruce M CIV SEA 08 NR; Caponiti, Alice; Herman, David R CIV NAVSEA, 08; Dei, Donald E CIV SEA 08 NR; dmodeen@epri.com; EventResponse@epri.com;

GE.HitachiNuclearResponseTeam@ge.com; Szeto, Gordon CIV SEA 08 NR; Vincent.Holahan@nrc.gov; inpoerc@inpo.org; inpoerctech@inpo.org; (b)(6) joel.pero.contractor@unnpp.gov; Kelly, John E (NE); Steinhurst, Laurel A CIV SEA 08 NR; lela.doyle.contractor@unnpp.gov; Stark, Richard; Versluis, Rob; RST16.Hoc@nrc.gov; RST01B.Hoc@nrc.gov; rst03.hoc@nrc.gov; RST07.Hoc@nrc.gov; MoralesRA@state.gov; Golub, Sal **Subject:** Re: SNL SFP4 MELCOR Calculation

-is anyone evaluating theories that do not require SPF4 to have been a source of hydrogen? Two such theories:

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TGV

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To: RST08 Hoc <RST08.Hoc@nrc.gov>; RST09 Hoc <RST09.Hoc@nrc.gov>; RST06 Hoc <RST06.Hoc@nrc.gov>; RST09 Hoc <RST09.Hoc@nrc.gov>; Kepple, Alan C CIV NAVSEA, 08; Bettis Contacts <BMPC_ECC.Contractor@unnpp.gov>; Bingman, Bruce M CIV SEA 08 NR; RST08 Hoc <RST08.Hoc@nrc.gov>; Caponiti DOE <alice.caponiti@nuclear.energy.gov>; Herman, David R CIV NAVSEA, 08; Dei, Donald E CIV SEA 08 NR; EPRI Dave Modeen <dmodeen@epri.com>; EPRI Event Response Center <EventResponse@epri.com>; GE Hitachi NucResponseTeam <GE.HitachiNuclearResponseTeam@ge.com>; Szeto, Gordon CIV SEA 08 NR; Holahan, Vincent <Vincent.Holahan@nrc.gov>; INPO ERC <inpoerc@inpo.org>; INPOERCTECH <inpoerctech@inpo.org>;

(b)(6) Kelly <johne.kelly@nuclear.energy.gov>; Steinhurst, Laurel A CIV SEA 08 NR; Lela Doyle (KAPL)

<leal.doyle.contractor@unnpp.gov>; Richard Stark <Richard.Stark@nuclear.energy.gov>; Rob Versluis

<ROB.VERSLUIS@nuclear.energy.gov>; Hoc, RST16 <RST16.Hoc@nrc.gov>; RST01B Hoc <RST01B.Hoc@nrc.gov>; RST03 Hoc <RST03.Hoc@nrc.gov>; RST07 Hoc <RST07.Hoc@nrc.gov>; Russell Morales <MoralesRA@state.gov>; Sa Golub <sal.golub@nuclear.energy.gov>; Bell, Stephen T CIV SEA 08 NR; Roberts, Thomas E CIV SEA 08 NR; Vavoso, Thomas G CIV NAVSEA, 08 Cc: FOIA Response.hoc Resource <FOIAResponse.hoc.Resource@nrc.gov> Sent: Thu Apr 07 04:30:44 2011

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To: RST01 Hoc
Cc: Giessner, John; Taylor, Robert; Bernhard, Rudolph; Blamey, Alan
Subject: SNL SFP4 MELCOR Calculation

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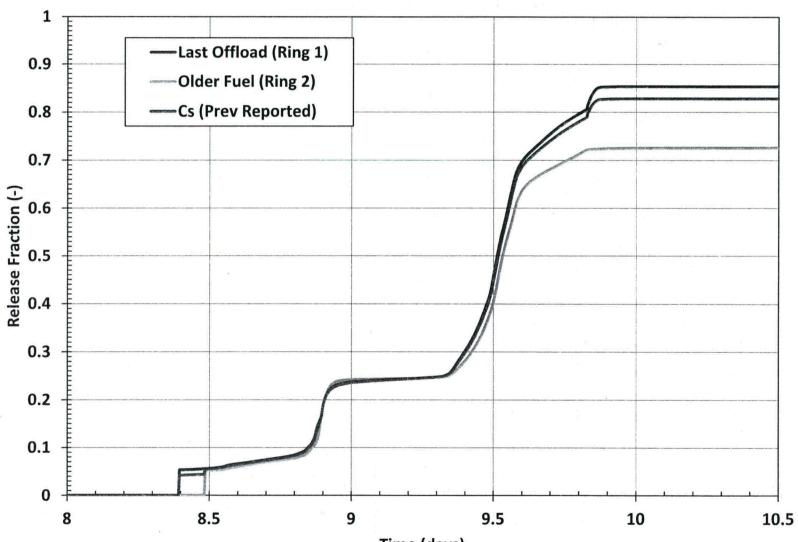
A chill 5

milliona and level

We should keep asking the question, what is the water level in the SFP?

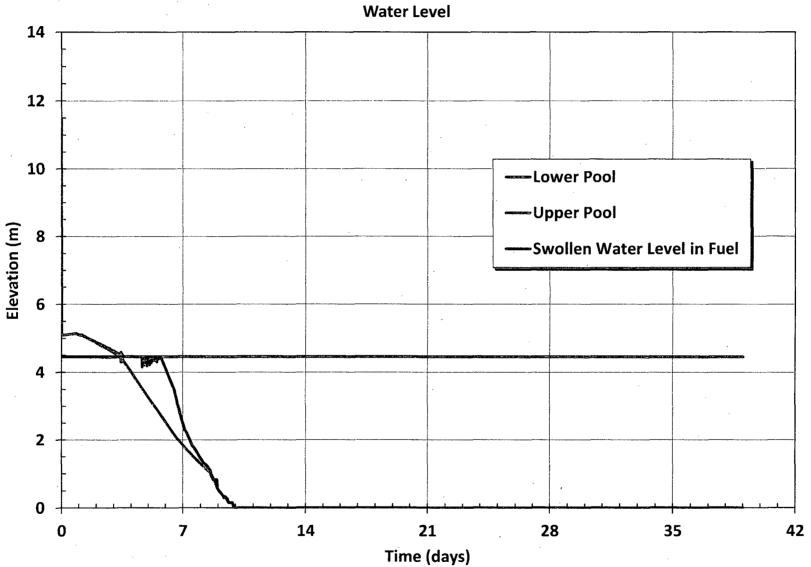
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If the water level is very high, then we have no way to explain the timing of pool dryout and fire that is assumed to have taken place on the 15th.

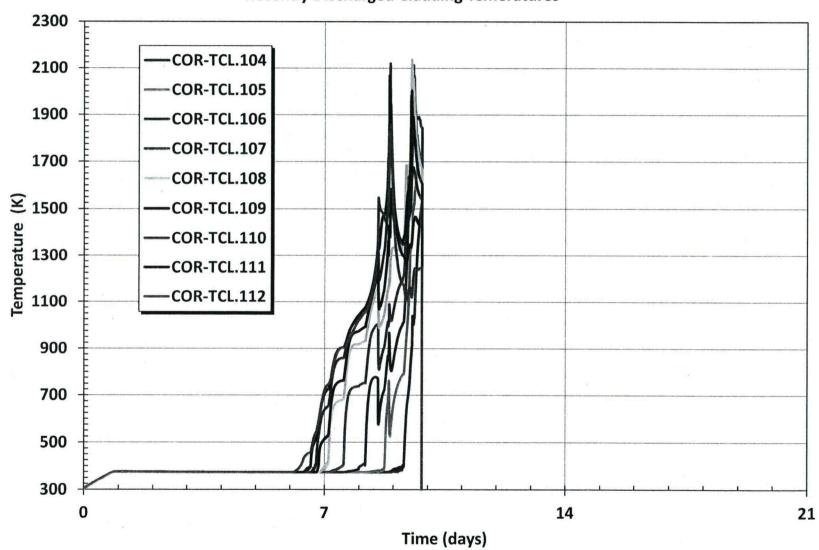


1F4 Boil-off Calculation Cesium Release Fraction from Fuel

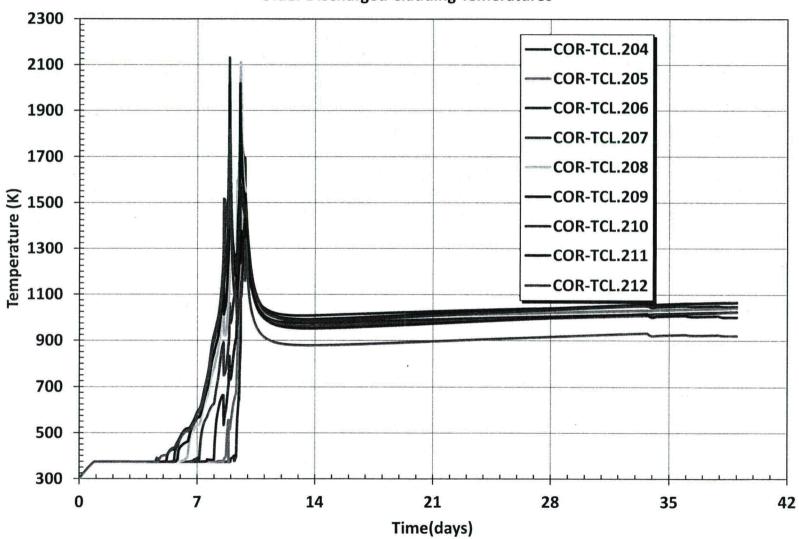
Time (days)



1F4 SFP Boil-off Calculation Water Level

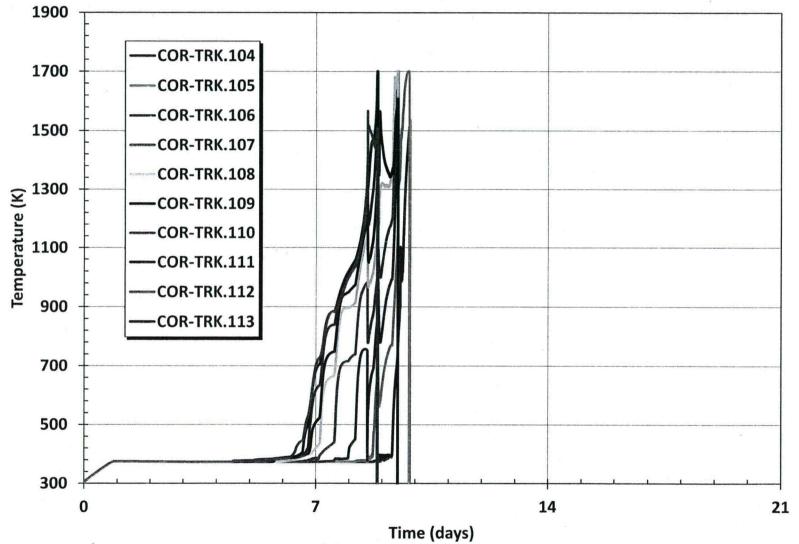


1F4 Boil-off Calculation Recently Discharged Cladding Temeratures

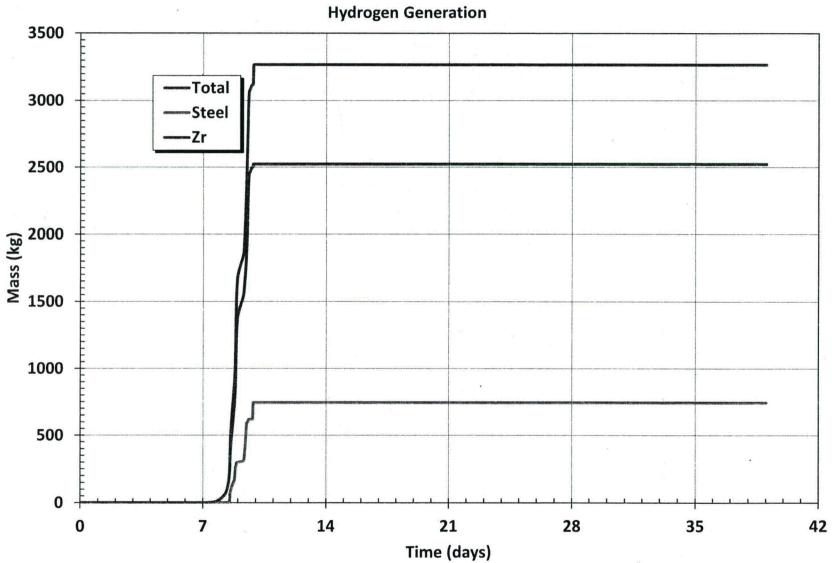


1F4 Boil-off Calculation Older Discharged Cladding Temeratures

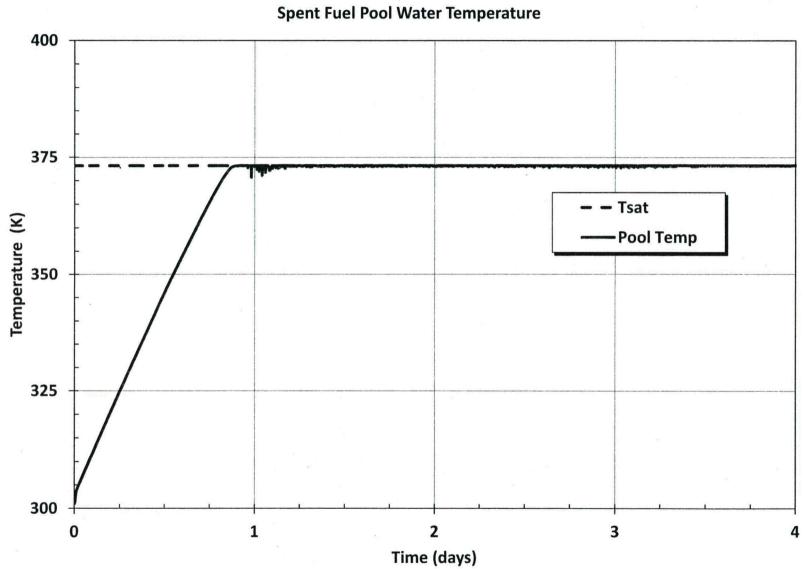




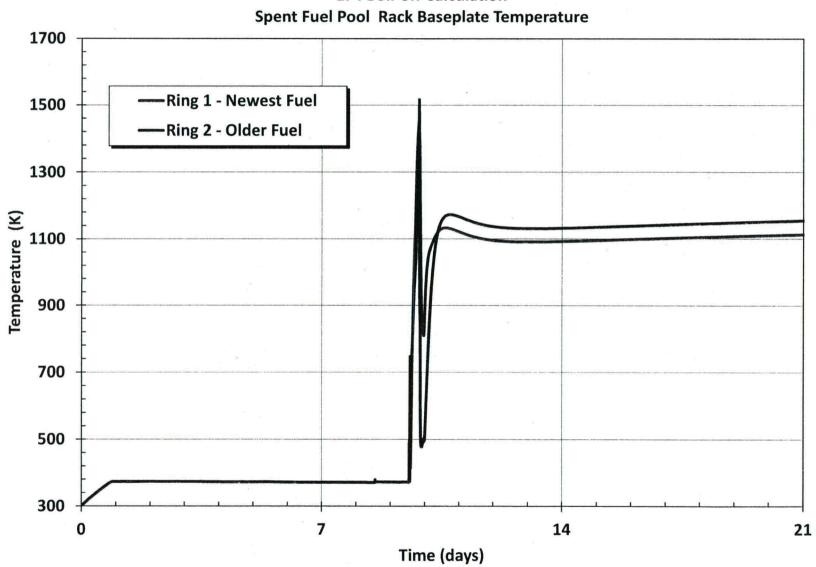
.



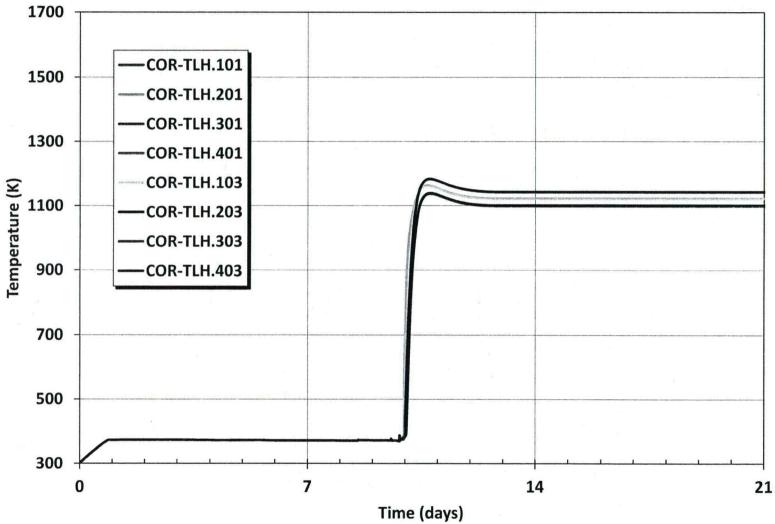
1F4 Boil-off Calculation Hydrogen Generation



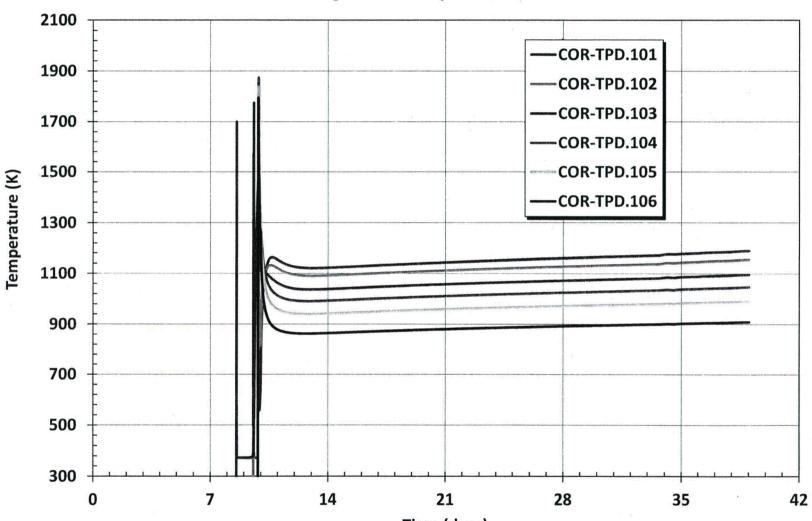
1F4 Boil-off Calculation Spent Fuel Pool Water Temperature



1F4 Boil-off Calculation



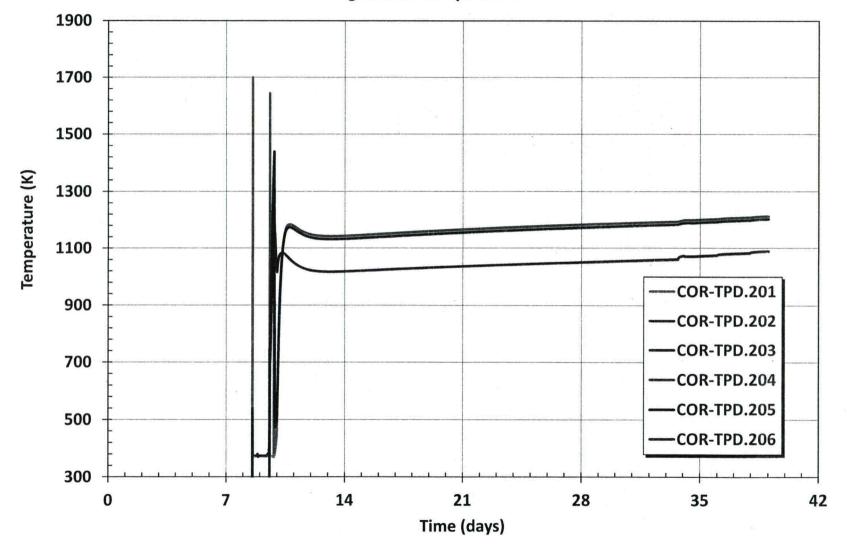
1F4 Boil-off Calculation Spent Fuel Pool Floor Liner Temperature



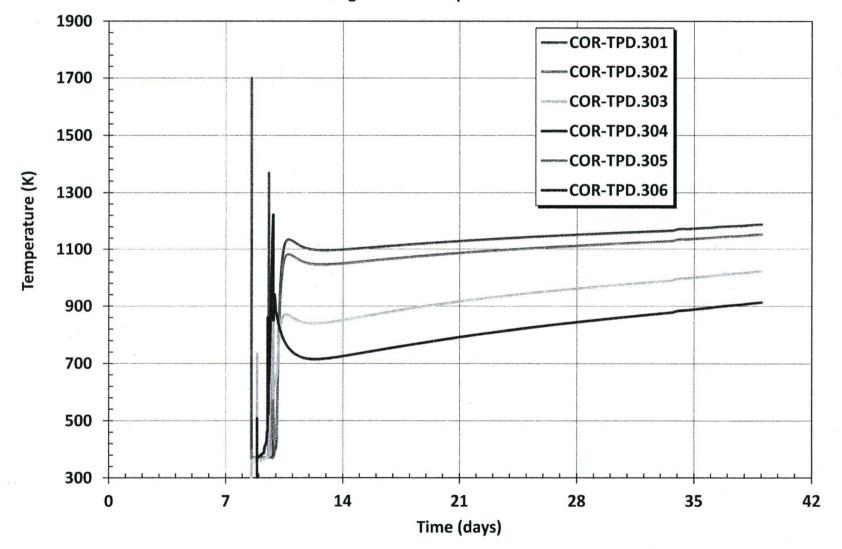
1F4 Boil-off Calculation Ring 1 Debris Temperature

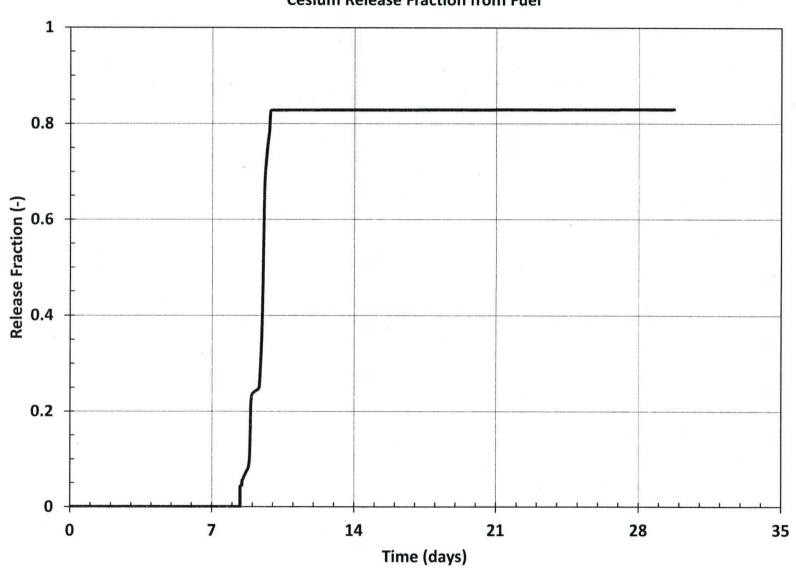
Time (days)

1F4 Boil-off Calculation Ring 2 Debris Temperature



1F4 Boil-off Calculation Ring 3 Debris Temperature





1F4 Boil-off Calculation Cesium Release Fraction from Fuel

From:Evans, MicheleSent:Thursday, April 07, 2011 1:39 PMTo:Kerben, Valerie; Fragoyannis, Nancy; LIA02 Hoc; LIA03 HocCc:Pretzello, Andrew; Ross-Lee, MaryJaneSubject:RE: NRC Team to Japan

There will be another team of people going to Japan early next week. They have not been identified yet. Brian Wittick is travelling separate from that team.

Michele Michele Evans Acting Deputy OD, NSIR

From: Kerben, Valerie Sent: Thursday, April 07, 2011 1:33 PM To: Fragoyannis, Nancy; Evans, Michele; LIA02 Hoc; LIA03 Hoc Cc: Pretzello, Andrew; Ross-Lee, MaryJane Subject: NRC Team to Japan

If you can assist me in determining if another team is going to Japan. We heard directly from Brian Wittick that he needs us to send his clearance for his travel tomorrow. I will wait to get confirmation. Thank you-

Valerie B. Kerben Chief, Personnel Security Branch Division of Facilities and Security U.S. Nuclear Regulatory Commission (office#) 301-492-3527 (fax #) 301-492-3442

Note: This e-mail may contain sensitive and/or privileged information. If you are not the intended recipient (or have received this e-mail in error) please notify the sender immediately and destroy this e-mail. Any unauthorized copying, disclosure, or distribution of the material in this e-mail is strictly forbidden. Under the Privacy Act of 1974, all data of a private nature must be protected from unauthorized disclosure.

From: Fragoyannis, Nancy Sent: Wednesday, March 30, 2011 6:09 PM To: Evans, Michele Cc: Mamish, Nader Subject: FW: Third NRC Team to Japan

Hi Michele,

If another team is going to be sent to Japan, can you include Valerie Kerben from ADM or Sharon Stewart on your emails. Valerie is responsible for getting the travelers clearances sent to AID and State and early notification would be useful in getting clearances transferred on a timely basis.

Thanks,

Nancy

From: Evans, Michele
To: Call, Michel; Salay, Michael; Hay, Michael; Bernhard, Rudolph; LIA03 Hoc; LIA02 Hoc
Cc: Doane, Margaret; Mamish, Nader; Lee, Richard; Case, Michael; Sheron, Brian; Haney, Catherine; Ordaz, Vonna; McCree, Victor; Kennedy, Kriss; Casto, Chuck; Monninger, John; Virgilio, Martin; Weber, Michael; Borchardt, Bill; Bahadur, Sher; Ruland, William; Leeds, Eric; Johnson, Michael; Holahan, Gary; Pederson, Cynthia; Camper, Larry; Wiggins, Jim; Dorman, Dan; Collins, Elmo
Sent: Wed Mar 30 16:29:21 2011
Subject: Third NRC Team to Japan

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Thank you for volunteering for deployment to Japan. This work is of highest priority for the agency and your efforts are enormously appreciated.

At this time we've identified 4 additional technical staff to support the team in Japan. The plan is for Mike Salay (RES), Michel Call (NMSS), Mike Hay (RIV), and Rudy Bernhard (RII) to leave the USA on Saturday, April 2. The intent is that your stay will be two weeks or less.

An additional staff member with International Programs expertise will be identified by OIP to support and provide relief in the near term.

The Operations Center Liaison Team (LT) will be contacting you later today to handle the logistic for your trip. This includes items such as flights, passports, country clearances, health immunizations, international blackberry service, dosimetry and KI tablets.

In addition, HR has requested that I provide you the information below:

-Please contact NRC Health Services at your earliest convenience on 301-415-8400 to schedule an appointment with Dr. Cadoux for health screening and counseling. If at all possible, it is important that you meet with Dr. Cadoux face-to-face. However, if you are located in the Region or if you are notified and deployed in a very short time frame so that medical screening is not possible, this screening will be conducted by phone. Please be aware that medical services available in Tokyo are limited at this time. Additionally, working conditions are such that controlling diet, sleep, exercise, and routine may be impossible. All of these factors can impact your health. Please review any medical conditions that you may have with Dr. Cadoux so that he can provide you with advice and counseling on managing you medical condition while deployed.

-Before you deploy we recommend that you speak briefly with the NRC Employee Assistance Program counselor, Sarah Linnerooth. Sarah can be reached on 301-415-7113. While you are deployed, EAP services are available to both you and your family, including extended family members such as Grandparents. The telephone number is for EAP service is 1-800-896-0276. More information is available on the EAP on the web at <u>www.eapconsultants.com</u>. To learn more about the EAP and the services provided click on the member services tab. The NRC passcode is **(b)(6)**. Please be sure to share this information with your family.

At this point, I ask that you hold any questions that you may have until the LT contacts you directly. However, after that time, if you have any additional questions or concerns that have not been addressed, please call or email me.

Thank you.

Michele Evans Acting Deputy OD, NSIR Michele.evans@nrc.gov BB:

- See See Martin

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From: RMTPACTSU_ELNRC < RMTPACTSU_ELNRC@ofda.gov> Thursday, April 07, 2011 2:19 PM Sent: LIA06 Hoc To: Subject: FW: MITAM Japan EQ/Tsunami (April 7, 2011) Attachments: PacTSU MITAM - April 7 2011.xlsx From: RMTPACTSU_ELNRC Sent: Thursday, April 07, 2011 2:14 PM To: 'LIA11.Hoc@nrc.gov'; 'LIA01.Hoc@nrc.gov'; 'LIA07.Hoc@nrc.gov'; 'LIA02.Hoc@nrc.gov); 'lia08.hoc@nrc.gov'; 'LIA12 Hoc (LIA12.Hoc@nrc.gov)'; 'holly.harrington@nrc.gov'; 'David.mcintyre@nrc.gov'; 'Scott.Burnell@nrc.gov'; 'et07.hoc@nrc.gov' Subject: FW: MITAM Japan EQ/Tsunami (April 7, 2011) From: Bock, Yoni Sent: Thursday, April 07, 2011 6:46 AM To: Bock, Yoni; usfj-cat-chief@usfj.mil (b)(6)

Subject: MITAM Japan EQ/Tsunami (April 7, 2011)

All,

Attached is today's MITAM. No new missions have been assigned. However, two missions were closed today. As a result, only one mission (JEQ-037) remains open.

v/r

Yoni

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Mr. Yonahton Bock Military Liaison Officer / Civ-Mil Coordinator Japan Earthquake/Tsunami DART Email: <u>ybock@usaid.gov</u> Blackberry:

DNS at USFJ: 225-3397, 4110

From US (or non DSN) (011 81) 425 522-511 From Japan (non DSN) 0425 522-511 *after dial tone*, ext 53397, 44410

Current Location: Yokota AB, Tokyo, Japan

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| Gov Japan      | Transport | Security | Re-supply | Engineer | Medical | Assessment | Other    | Gov Japan       | Transport | Security | Re-supply |
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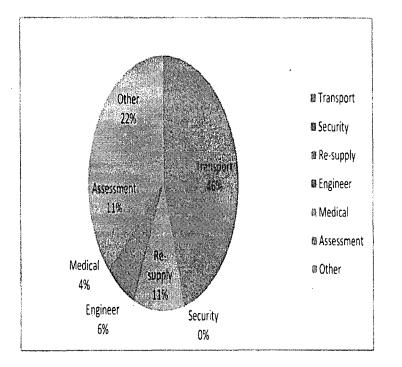
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A program to table program control

From: Sheikh, Abdul Sent: Thursday, April 07, 2011 4:45 PM To: RST01 Hoc Cc: FOIA Response.hoc Resource; Ali, Syed Subject: Unit 4 Spent Fuel Pool Structural Assessment Follow up Follow Up Flag: Flag Status: Flagged

I have reviewed the information provided by TEPCO concerning the structural integrity of the Unit 4 spent fuel pool and have following observations.

1. TEPCO has used appropriate thermal gradients for the SFP walls.

2. TEPCO has also considered water pressure, seismic, hydrodynamic loads acting concurrently with thermal gradient. 3. It is not possible to independently verify TEPCO calculations for the stresses in the rebars and concrete without additional design data and detailed analytical calculations.

4. I performed preliminary calculations and found that stresses calculated for different loads by TEPCO do not vary substantially from my simple calculations except for the thermal gradient condition. TEPCO's stresses due to thermal loads appear to be conservative.

5. TEPCO has used an allowable stress for thermal, seismic, water pressure, and hydro dynamic pressure of 345 N/sq mm (50 ksi) and consider this as short term loading condition. This is not conservative because steam has been present for several weeks; therefore this loading combination should be considered as long term loading condition. In addition, TEPCO has not considered any load factors for different loads. Use of the allowable stress of 345 N/sq mm (50 ksi) for sustained loads, without any load factor, is not realistic since yield strength of rebars vary between 275 to 400 N/sq. mm (40-60 ksi).

6. TEPCO has not addressed the effect of thermal gradient on the concrete floor slab which is the critical element of the spent fuel pool structural integrity.

Based on the above, I suggest that:

1. TEPCO should consider the combined loads from steam thermal gradient, water pressure, seismic, and hydrodynamic pressure as sustained loads and not short term loads.

2. Refine the thermal gradient stress calculations so as eliminate conservatism.

3. Address the effect of thermal gradient on the spent fuel pool floor slab.

4. Consider the effect of different coefficient of expansion of stainless steel and concrete. There is a potential of liner plate welds failure and leaks developing in the liner plate.

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Abdul Sheikh My cell number i

-----Original Message-----From: RST01 Hoc Sent: Thursday, April 07, 2011 1:52 AM To: Sheikh, Abdul Cc: FOIA Response.hoc Resource Subject: FW: Fax from 81355105111

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-----Original Message----From: OST02 HOC Sent: Wednesday, April 06, 2011 5:48 PM To: RST01 Hoc Subject: FW: Fax from 81355105111

-----Original Message-----From: HOO Hoc Sent: Wednesday, April 06, 2011 5:47 PM To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC Subject: FW: Fax from 81355105111

Headquarters Operations Officer U.S. Nuclear Regulatory Commission Phone: 301-816-5100 Fax: 301-816-5151 email: <u>hoo.hoc@nrc.gov</u> secure e-mail: <u>hoo1@nrc.sgov.gov</u>

-----Original Message-----From: hoo1 [mailto:hoo1.hoc@nrc.gov] Sent: Wednesday, April 06, 2011 5:44 PM To: HOO Hoc Subject: Fax from 81355105111

**RECEIVE NOTIFICATION FOR JOB 00018101** 

Notice for: HOO1

Remote ID: 81355105111

Received at: 04/06/2011 17:43

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Billings, Sally Thursday, April 07, 2011 7:06 PM Hahn, Matthew RE: Salary Cap List

Thanks Matt.) Hope your mom has a great birthday and you all have a great vacation!

From: Hahn, Matthew Sent: Thursday, April 07, 2011 1:58 PM To: Billings, Sally Subject: RE: Salary Cap List

Thanks. You all take care of each other down there (6)(6) (6)(6) during this event – I start my annual leave tomorrow and won't be around to check in on you all.

Matt

From: Billings, Sally Sent: Wednesday, April 06, 2011 1:24 PM To: Hahn, Matthew Subject: FW: Salary Cap List

FYI.

From: Williams, Kevin Sent: Wednesday, April 06, 2011 8:25 AM To: Billings, Sally Cc: McDermott, Brian; Rheaume, Cynthia; Curran, Bridget Subject: RE: Salary Cap List

Sally,

Thanks for providing feedback. PMDA has 1 list with all NSIR Divisions listed and is working with all Divisions to ensure that we provide an accurate list to the OCFO for the staff that are supporting this effort. PMDA is working to correct this issue and unfortunately an e-mail does not do justice regarding the work that PMDA is conducting behind the scenes to rectify the situation.

Kevin

From: Billings, Sally Sent: Wednesday, April 06, 2011 7:58 AM To: Rheaume, Cynthia; Williams, Kevin Cc: McDermott, Brian Subject: RE: Salary Cap List

If you just added DPR, then the list is STILL incomplete. There are other divisions in NSIR supporting the response who have staff not on the list. As I suggested, someone needs to have each BC verify that their

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appropriate staff is included. I understand that someone in DSO might also be working on a separate list – which isn't good. We need 1 consolidated list from NSIR.

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Thank you.

From: Rheaume, Cynthia Sent: Tuesday, April 05, 2011 10:37 AM To: Williams, Kevin; Billings, Sally Cc: McDermott, Brian Subject: RE: Salary Cap List

Kevin - yes, OCFO will take care of adding these names to Bridget's list.

#### Cynthia Rheaume

Director, Program Management, Policy Development and Analysis Nuclear Security and Incident Response (301)415-6538 Cynthia.Rheaume@nrc.gov

From: Williams, Kevin Sent: Tuesday, April 05, 2011 10:33 AM To: Rheaume, Cynthia; Billings, Sally Cc: McDermott, Brian Subject: RE: Salary Cap List

Hopefully, you are referencing the list that Bridget put together (that has all of DPR on it) today otherwise this list is incomplete.

Kevin

From: Rheaume, Cynthia Sent: Tuesday, April 05, 2011 10:12 AM To: Billings, Sally Cc: McDermott, Brian; Williams, Kevin Subject: Salary Cap List

We have forwarded this list to OCFO. Thank you!

#### Cynthia Rheaume

Director, Program Management, Policy Development and Analysis Nuclear Security and Incident Response (301)415-6538 Cynthia.Rheaume@nrc.gov

From: ET07 Hoc Sent: Tuesday, April 05, 2011 2:36 AM To: Williams, Kevin; McDermott, Brian Cc: Curran, Bridget; Dudek, Michael; Williamson, Linda; Abraham, Susan; McDermott, Brian; Rheaume, Cynthia; Morris,

## Scott; Thaggard, Mark; Howard, Tabitha; Ma, May **Subject**:

Kevin,

ч,

After review of the subject spreadsheet you provided, I have added several more staff in DPR to the salary pay cap list. These names (highlighted in yellow) were added based on my personal knowledge of their support of the response to the events in Japan. However, I am not aware of <u>all</u> individuals who have supported the response. Therefore, I'd recommend you inquire with respective Branch Chiefs within NSIR to ensure you have captured all individuals who should be included on your spreadsheet.

;

Sally Billings ET Status Officer

| From:    | LIA02 Hoc                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sent:    | Friday, April 08, 2011 12:02 AM                                                                                                                                                                                                                                                                                                                                                                                                                            |
| То:      | LIA02 Hoc; Doane, Margaret; Mamish, Nader                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cc:      | Abrams, Charlotte; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov'; Bloom,<br>Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English,<br>Lance; Smiroldo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd,<br>Jill; Baker, Stephen; Emche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens,<br>Janice; Fehst, Geraldine; Foggie, Kirk; Breskovic, Clarence; LIA08 Hoc; LIA06 Hoc |
| Subject: | OUO- Transition Report April 8, 1500 - 2400                                                                                                                                                                                                                                                                                                                                                                                                                |

Transition report for April 7, 1500 to 2400

Updates during Shift

Steve to Mugeh

- Fourth Team to Japan. The first member, Brian Wittick, for the next team has been identified. Support will be needed. Currently USAID will be the funding source.
- Coordination of IAEA and U.S. Efforts. While the IAEA's Incident and Emergency Centre (IEC) has not agreed to be a formal "clearinghouse" (i.e., actively reaching out to all IAEA member states requesting that all assistance efforts be coordinated through the IEC), they are tracking all offers for assistance via a database that was posted on ENAC last week. For the effort to be effective, they need input from countries, and they do not have anything from the United States. It was our initial understanding that DoD (Navy) is taking a logistical leadership role in coordinating equipment-provision efforts for the USG. However, INPO has taken the lead on equipment issues although the State Department had taken a lead role in the "Consortium." US Embassy Tokyo had established a tracking system to compile assistance requests from the Japanese and offers from USG entities. INPO had been separately tracking equipment requests (see INPO item below). The Embassy and INPO tracking have been merged. On April 5, LT received the latest equipment request matrices from USAID, originated by the Tokyo embassy. OMB indicated to LT on April 5<sup>th</sup> conference call that they intend to start approving all finances for equipment purchases for Japan.
- Air Cards. Received request from Danielle to have air cards deactivated due to malfunctioning and potential losses. Requested clarification of which were missing and which desired to be deactivated. Notified Joe Turner of OIS. Action: Email send 4/7 to follow up on status.
- Mailbox size limits. Team requested verification that mailboxes had size limits increased due to difficulties sending emails. Notified Joe Turner in OIS. Action: Email send 4/7 to follow up on status.
- Plant Status Updates. James Whitney, NSIR has requested that all of the "Plant Status" news releases on ENAC be sent to him to assist other government agencies in their analysis of the situation. Action: Send <u>james.whitney@nrc.gov</u> "plant status updates" on ENAC as they come in (last one sent on day shift on 4/7).
- **TEPCO Earthquake Info.** Vince Holahan, the NRC staff member embedded with PACCOM, has requested to be on the distribution list for the Japanese earthquake info sent from TEPCO. **ACTION:** Please forward these emails to him as they are received. Forwarded the 1800 report to V. Holahan and had his email.

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- Request to Share RST Document with Foreign Governments: The Governments of Canada, the UK and Finland have requested that the RST share their "Stability Document," which they have discussed during their daily call with these governments. The request has been forwarded on to the ET, who is assessing what information is
- contained in the document before deciding on whether or not to share the document
   The document is still in draft (awaiting interagency comments). PMT was given permission to read the draft
   document to conference call members. Release of this document will be addressed as part of the process being
   developed to address the release of a document to NY Times. ACTION: Continue to follow.
- Government Shutdown NRC Japan Team wants to know what will happen if the USG shuts down. This decision
  has yet to be made by the Chairman and EDO. Indications that the NRC has funding to continue at least one
  week after USG shutdown. ACTION: If the USG does shut down, please make sure to inform the NRC Japan
  team right away and try to find out as much information for them as possible.
- **1 Pager for Margie's Morning Meeting** Danielle requested that the draft be sent to her so she could add to it overnight. She will send back any updates via email. **ACTION:** Work off of the draft sent back from Danielle. If she doesn't send back any updates overnight, then work off of the draft completed.

#### **Future Actions/OPEN ITEMS**

• News Reports on IAEA "Recommendation" to Extend Evacuation Zone: News media is reporting that the IAEA has called on Japan to extend the evacuation zone around Fukushima, based on abnormal levels of radiation detected in a village outside the current evacuation zone. This was neither a special announcement nor a formal recommendation from the IAEA. Instead, the reports result from information provided at the March 30 IAEA technical briefing, at which DDG Denis Flory reported on the location of the abnormal radiation levels and noted that they were located outside the evacuation zone. When asked a direct question about whether the IAEA was recommending that Japan extend the zone, DDG Flory stated only that the IAEA was encouraging the "counterpart" to "carefully assess the situation." Full summary of technical briefing here:

<u>http://iaea.org/newscenter/news/tsunamiupdate01.html</u>, relevant paragraph is the fourth paragraph under item #2, "Radiation Monitoring." Jen Schwartzman verified with Mark Shaffer that no formal announcement has come from IAEA in this regard.

- Deputies Committee Decisions and Action Items: SECY has been sending summaries of the Deputies Committee meetings as they are received and the LT Director/Coordinator have been tracking any actions pertinent to the LT. There are currently no international liaison tasks resulting from these meetings but the LT Director will inform us if this changes. Action: Mark Shaffer would like to see the summaries. . Summaries received on 4/7 were sent.
- Translators. 24/7 translation coverage in the HOC has been suspended. Kirk Foggie confirmed that there is only
  one known NRC employee that speaks Japanese (at the moment) but there is a Japanese foreign assignee and
  other options available. Also, Tony Nakanishi may be available to provide translation assistance. USAID is
  paying for an NRC-dedicated translator in Tokyo. If we need items translated and cannot get assistance from
  within NRC, we can rely on them. Action: If in need of USAID translation support, fax the document to +81-33224-5538 and send a scanned (PDF) copy to the Japan site team as a backup.

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- **INPO:** All equipment requests are now going through INPO. They are consolidating all available information. Contact information for INPO is 770-644-8118 or email at <u>inpoercassistance@inpo.org</u>.
- NRC Health Unit request: The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there still exists a possibility that KI could be required at some point. Should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.

- Daily calls with UK/France/Canada. Calls will take place at 0930 with RST and PMT to discuss reactor-related and radiation-related information, respectively, with regulatory representatives from these three countries. Everyone should call into the HOO to be connected. Finland and the IAEA may also participate on an intermittent basis. The new number to call into is (6)(6) and and the pin is (6)(6) NOTE: There is no call on the weekends.
- Daily NRC Japan Team RST/PMT Call. The time of the call varies. As of 4/5 it was 2100 with RST and PMT have been notified of the call and international liaison should plan on participating (OIP staff in Japan don't necessarily participate). All parties should call into 301-816-5120 and use pass-code [(b)(6)]
  - Laptop shuffling in Japan. Some laptops (the blue-top ones) still have difficulty printing so the ground team has requested the assistance of CSC in "re-assigning" the laptops that work well to the members of the 3<sup>rd</sup> team (since the 2<sup>nd</sup> team members leave Japan in the next day or two). No action for OIP but we may be requested to assist if there are any difficulties. We should also note that if future teams go to Japan, they should take non-blue-top or personal laptops to make it easier to connect to the Embassy printer.
  - Update Japan Traveler Information Document on LIA03 with Return Team info Per request from LT Director
    please update the traveler table as NRC Japan Travel Team members return to U.S. ACTION: Await reply emails
    from returned travelers and update the Document on LIA03.
  - Announcement of French nuclear safety meeting in May: Reuters is reporting that Sarkozy has announced plans for a high-level meeting of "G20 nuclear industry officials" in Paris in May 2011 "to define international nuclear safety standards." The article states that Sarkozy "declared this [meeting] would lay the groundwork for the IAEA high-level meeting on June 20-24. We are seeking additional information on this announcement from
  - official channels. Message sent to Eric at 0400 inquiring whether he has heard anything via his French contacts (noting that ASN will be meeting with the NRC Team in the next day or two). Report any new information learned to OIP management and ET. The policy to delay meeting will be articulated by DOS high level representatives at a G-20 meeting in Abu Dhabi the week of April 4. The French announced their intent to convene this meeting, and stated that the Japanese Prime Minister is supportive. **Action:** OIP will continue to interact with interagency as appropriate and update ET.

#### DAILY ACTIONS/REMINDERS

- International updates must be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- The 3-12 PM shift should try and work on the one pager and the 7 AM 3 PM should finalize and send to Margie. Please include information from email from Danielle and Eric. Margie reminds us that the write-up should not contain technical details, which are already captured in other reports, and should be marked "Official Use Only – Foreign Government Information."

Sec. March

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- Both shifts are responsible for sending all emails to the FOIA email address. Open new email, copy previous day's
  emails as an attachment and send to <u>FOIA Response.hoc@nrc.gov</u>. Also it would be helpful to mark the red flag on
  the right to show which emails were sent.
- The international team should sit in on calls with the ET and team leader (Chuck or Dan) to take notes and provide a short summary of what was discussed via email to OIP reps on Japan Team. The Chairman's briefing has been moved to 0800 while he is in Vienna, April 4-6, and will involve a three way call with Casto, ET, and Chairman. [Japan 13 hours ahead, Vienna 6 hours ahead]
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have an international call.
- Reminder to Keep Mark Shaffer in-the-loop at <u>shaffermr@state.gov</u>, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.
- Request from RST and PMT to keep them updated on who is currently in Japan on NRC team.

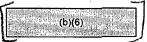
- Please make sure to keep the NRC Japan travelers list updated (check the last updated date) and post a new copy on LIAO2 cabinet as changes occur.
- OIP has been tasked with providing IAEA ENAC daily summary to Commissioner's TAs and EDO POC. OIP is also being

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asked to place a cover page on this report indicating the sensitivity of the information. The document will be provided by email.

From: Sent: To: Subject: Collins, Elmo Friday, March 25, 2011 4:29 PM LIA03 Hoc Re: Emergency Contact Information needed

Emergency contact info:



Thank you Elmo

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5. 20.33

From: LIA03 Hoc To: Collins, Elmo Sent: Fri Mar 25 16:24:25 2011 Subject: RE: Emergency Contact Information needed

To us, the international liaisons in the operations center. Thanks!

annan siyya

From: Collins, Elmo Sent: Friday, March 25, 2011 4:23 PM To: LIA03 Hoc Subject: Re: Emergency Contact Information needed

To whom should I provide the information?

From: LIA03 Hoc To: Collins, Elmo Cc: LIA02 Hoc Sent: Fri Mar 25 16:19:57 2011 Subject: Emergency Contact Information needed

Dear Elmo,

Please provide emergency contact information before you depart to Japan. We will need a name (with relationship to yourself) and at least one phone number.

Thank you! -Jenny

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From: Sent: To: Subject: HOO Hoc <HOO.Hoc@nrc.gov> Friday, April 08, 2011 4:27 PM LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC FW: request to NRC to facilitate detection measurements.

From: NITOPS[SMTP:NITOPS@NNSA.DOE.GOV] Sent: Friday, April 08, 2011 4:26:34 PM To: HOO Hoc; Hoc, PMT12 Subject: FW: request to NRC to facilitate detection measurements. Auto forwarded by a Rule

NITOPS,

Lon Horiuchi (CONTR)

From: Tilden, Jay Sent: Friday, April 08, 2011 4:20 PM To: NITOPS Cc: Georgevich, Vladimir (CONTR); Aoki, Steven; 'Joseph.Rivers@nrc.gov' Subject: RE: request to NRC to facilitate detection measurements.

NITOPS - please pass on to NRC Operations Center for action.

NRC Ops,

We are requesting your help with facilitating access to a reactor for three of our scientist to calibrate diagnostic equipment at one of the nuclear power plants listed below. We would like this radiation diagnostic team to be given permission to enter one of the US reactor plants to take radiation measurements for the purpose of calibrating the instrumentation in the presence of an operating reactor with a realistic shielding and operational core geometry configurations that are most similar to the reactors in Japan. Our goal is to validate whether this equipment could be used at the Fukushima NPP and determine additional details regarding damaged core geometry.

We need NRC's help in getting appropriate permissions. We have identified four reactors in the US that fit that profile. They are ranked 1-4 in terms of convenience for our detection folks to get to them. These reactors are:

- 1) Cooper-Nebraska
- 2) Palo-lowa
- 3) Oyster Creek-New Jersey
- 4) Nine Mile Point-New York

The diagnostic team would comprise of 3 Q cleared individuals with appropriate Radiation Worker Training. We would welcome help from hosting plant by providing us with the following:

1. 2 day access to various points in and around the plant to calibrate equipment (a list could be compiled if needed)

- 2. Escort by knowledgeable Facilities Engineering Tech Rep who knows the facility and its materials, thicknesses, etc.
- 3. Plant POC contact info to work out the details prior to deployment.

Vlad Georgevich is the POC/coordinator for this request. He can be contacted at cel

Jay A. Tilden Japan Logistics Coordinator & Dir. NA-47, NNSA

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From: Sent: To: Subject: LIA08 Hoc Friday, April 08, 2011 9:39 PM Hoc, PMT12; PMT03 Hoc; PMT07 Hoc FW: Draft read-out 1600 Telecon 04/07/11 Low Level Radioactive Waste Disposition

FYI.

-----Original Message-----From: LIA03 Hoc Sent: Friday, April 08, 2011 9:35 PM To: LIA08 Hoc Subject: FW: Draft read-out 1600 Telecon 04/07/11 Low Level Radioactive Waste Disposition

Did you see this?

-----Original Message-----

May

From: Bowman, David [mailto:David.Bowman@nnsa.doe.gov]

Sent: Friday, April 08, 2011 9:29 PM

To: Steele, Jeffrey M CIV SEA 08 NR; Idar, Deanne J CIV OSD POLICY

Cc: eoc.epahq@epa.gov; Bentz, Julie A.; Eoc.Epahq@epamail.epa.gov; RMTPACTSU\_ELNRC; RMTPACTSU\_HHS; RMTPACTSU\_MLO; RMTPACTSU\_SRO; DemingRM@state.gov; NITOPS; Connery, Joyce; PMT03 Hoc; Mustin, Tracy; Szymanski, John; Zerr, Thomas J.; Regan, Sean P.; Bahar, Michael; Komp, Greg R Mr CIV USA HQDA ASO; gornjm@state.gov; (b)(6) Munning, Gregory A Capt Code 07, 07;

(b)(6) Aponte, Manuel COL OSD POLICY; Lane, Aikojean CIV OSD POLICY; Gross, Laura, CIV, OSD-POLICY; Malone, Stephen C CTR JCS J3; Owens, Janice; LIA03 Hoc; LIA02 Hoc; Tilden, Jay; Hoc, PMT12;

Edward; Finck, Phillip; Farrand, David E SEA04 04N; Tonkay, Douglas; Janet.benini@dot.gov; Curry, Michael R; Roupas, Mark, CIV, OSD-POLICY; Delazaro LtCol Steven J; Terrell, Patrick COL (USA) OSD POLICY; Love, Richard A CIV OSD POLICY; Wilber, Deborah

Subject: RE: Draft read-out 1600 Telecon 04/07/11 Low Level Radioactive Waste Disposition

Mr. Steele / Dr. Idar,

The data that the Department of Energy has collected do not support this assertion - "The nuclear accident in Japan has resulted in widespread deposition of radioactive contamination throughout the northern part of Japan, including the metropolitan Tokyo area. Surface contamination levels in this entire region would be required to be posted as radiological area if they were at a U.S. licensed facility or DOE site." Our assessment is that the area that would fall under radiological control would be limited to a region within approximately 50 miles from the Fukushima plant. Further measurements are required to fully characterize the extent of the contaminated area.

While the background in the metropolitan Tokyo area has increased since the earthquake, we do not believe that the deposition was great enough to warrant characterization as a radiological area.

David Bowman, Ph.D Deputy Director Office of Emergency Response

DOE Senior Energy Official, Yokota Air Force Base

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#### From: Steele, Jeffrey M CIV SEA 08 NR Sent: Friday, April 08, 2011 12:48 PM To: Idar, Deanne J CIV OSD POLICY

#### Dr. Idar,

Given that much of the call was spent describing the current radiological status on the ground in Japan, I think a short summary of that status would be useful in the telecon summary. Here is a proposed paragraph.

"The nuclear accident in Japan has resulted in widespread deposition of radioactive contamination throughout the northern part of Japan, including the metropolitan Tokyo area. Surface contamination levels in this entire region would be required to be posted as radiological area if they were at a U.S. licensed facility or DOE site. Any materials leaving Japan have the potential for low levels of radioactive contamination. Thus, the discussion about materials in DOD possession is indicative of similar materials that are entering commerce from Japan. In the DC and IPC meetings earlier this week, it was agreed that the limit of 4 Bq/cm2 for commerce was going to be acceptable and posed no health risk."

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There was some discussion during the telecon about the DOD's normal procedures for disposal of low-level radioactive waste, and some participants questioned whether waste associated with Japan could simply be handled by thenormal DOD program. Mr. Farrand and I noted that the current situation was well outside the scope of the normal DOD program. Normal DOD processes deal with fairly limited amounts of radioactive material, in specific normal applications, handled by trained and qualified personnel. Japan related radioactivity will likely show up in a large number of different pieces of equipment, in a large number of places that typically don't handle radioactive material, and be handled by people who normally have no involvement with the DOD radioactive waste program. That is why DOD's preference is for such material to be returned to Japan if possible. If this is not possible, it would be necessary to greatly expand the scope and resources of the DOD radioactive waste disposal program.

In addition, I would propose that the summary of the telecon address the following considerations. If some of the other parties to the call can clarify these matters, that would be great. If they can't at this time, then the telecon summary should be clear that these matters are still open questions.

Regarding the question of NRC or Agreement State licensing, either for import or possession of radiologically contaminated material of Japan origin, the telecon and the excerpts forwarded by Ms. Owens do not provide a clear answer. During the call, there was an initial statement that NRC would not be licensing such material. Later on the discussion included reference to potential licensing. The regulatory provisions cited by Ms. Owens discuss the regulatory aspects of normal commerce in radioactive materials. It is not clear that these provisions would apply to widely scattered accident fallout that has placed low level contaminated material in the hands of many unregulated people and on material that will be entering commerce throughout the world.

In addition to the passages from NRC regulations quoted in the draft telecon summary, I would invite consideration of these provisions of NRC regulation in 10CFR20:

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#### 10 C.F.R. § 20.1002 Scope.

The regulations in this part apply to persons licensed by the Commission to receive, possess, use, transfer, or dispose of byproduct, source, or special nuclear material or to operate a production or utilization facility under parts 30 through 36, 39, 40, 50, 52, 60, 61, 63, 70, or 72 of this chapter, and in accordance with 10 CFR 76.60 to persons required to obtain a certificate of compliance or an approved compliance plan under part 76 of this chapter. The limits in this part do not apply to doses due to background radiation, to exposure of patients to radiation for the purpose of medical diagnosis or therapy, to exposure from individuals administered radioactive material and released under § 35.75, or to exposure from voluntary participation in medical research programs.

#### 10 C.F.R. § 20.1003 Definitions:

"Background radiation means radiation from cosmic sources; naturally occurring radioactive material, including radon (except as a decay product of source or special nuclear material); and global fallout as it exists in the environment from the testing of nuclear explosive devices or from past nuclear accidents such as Chernobyl that contribute to background radiation and are not under the control of the licensee. "Background radiation" does not include radiation from source, byproduct, or special nuclear materials regulated by the Commission."

As NRC considers these licensing questions, it is important to note that the position taken by NRC on these questions related to a license to import or licensing for possession should apply across the board to all entities that import or receive material from the northern half of Japan and not just the Department of Defense.

The EPA representative on the call (Dan Schultheisz?) stated that EPA would be a "secondary regulator" for this material. Could EPA provide further clarification of which EPA regulations might apply to this material, and how such secondary regulation might be implemented? As with the NRC licensing questions, any EPA regulation of potentially contaminated material returning from Japan would have to take into account that low levels of radioactive contamination may be present on and in any materials coming to the U.S. from Japan, including people, commercial aircraft, machinery, parts and other goods in commerce. Other than food imports, we are not aware of restrictions that have been imposed on other materials from Japan.

We appreciate your efforts to settle the questions of waste disposal in Japan, off-load of affected materials from ships in Japan, and potential return of wastes contaminated with Japan-origin radioactivity to Japan. We would encourage any action that would assist in a prompt resolution of the first two of these, and an eventual resolution of the third.

Jeff Steele Naval Reactors 202-781-6192

-----Original Message-----

From: Idar, Deanne J CIV OSD POLICY [mailto: (b)(6)

Sent: Thursday, April 07, 2011 6:55 PM

To: 'eoc.epahq@epa.gov'; 'Bentz, Julie A.'; 'Eoc.Epahq@epamail.epa.gov'; 'RMTPACTSU\_ELNRC'; 'RMTPACTSU\_HHS'; 'RMTPACTSU\_MLO'; 'RMTPACTSU\_SRO'; 'DemingRM@state.gov'; 'NITOPS'; 'Connery, Joyce'; 'PMT03 Hoc'; 'David Bowman'; 'Mustin, Tracy'; 'Szymanski, John'; 'Zerr, Thomas J.'; 'Regan, Sean P.'; 'Bahar, Michael'; Komp, Greg R Mr CIV USA HQDA ASO; 'gornjm@state.gov'; (b)(6) Code 07, 07 (b)(6) Aponte, Manuel COL OSD POLICY; Lane, Aikojean CIV OSD POLICY; Gross, Laura, CIV, OSD-POLICY; Malone, Stephen C CTR JCS J3; 'Owens, Janice'; 'LIA03 Hoc'; 'LIA02 Hoc'; 'Tilden, Jay'; 'Hoc, PMT12'; (b)(6) ; 'RMTPACTSU\_DMP@ofda.gov'; 'Smith-Kevern, Rebecca'; 'McCaughey, Bill'; 'McGinnis, Edward'; 'Phillip J Finck'; Farrand, David E SEA04 04N; Steele, Jeffrey M CIV SEA 08 NR; 'Douglas.Tonkay@em.doe.gov'; 'Janet.benini@dot.gov'; 'Curry, Michael R'; Roupas, Mark, CIV, OSD-POLICY; Delazaro LtCol Steven J; Terrell, Patrick COL (USA) OSD POLICY; Love, Richard A CIV OSD POLICY Subject: Draft read-out 1600 Telecon 04/07/11 Low Level Radioactive Waste Disposition

UNCLASSIFIED// FOR OFFICIAL USE ONLY

ALCON:

The draft read-out from today's 1600 Telecon on the Low Level Radioactive Waste (LLRW) Disposition is attached (and copied below) for your review. I welcome feedback from the participants on any missing due-outs or key points.

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Thanks again to all that were able to participate in our discussion.

Best,

Deanne

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Low Level Radioactive Waste (LLRW) Disposition IA (Sub-set) Telecon:

1600-1700 Thursday, 6 April 2011

Participants:

- 1. NNSA/DOE: EM HQ Office of Disposal Operations Office, General Counsel, NE
- 2. EPA
- 3. NRC
- 4. NSS

5. DoD: DoD LLRW Disposition Advisory Committee Chair, Naval Reactors, OSD(P)/CWMD

Facilitator: Dr. Deanne J. Idar, OSD Policy/Global Strategic Affairs/ CWMD/ CBRN Defense

Due outs:

\* DOE: Verify if DOE AMS assets have had any radioactive levels above clearance criteria; follow-up with Julie Bentz, NSS

\* NRC: provide DOS POCs information to OSD(P)/CWMD; CWMD will distribute to DoD LLRW Disposition Advisory Committee Chair

NSS: facilitate connection to DOS contacts for OSD(P)/CWMD

Agenda

1. Roll Call

2. Review of 4 questions posed by DoD LLRW Disposition Advisory Committee

\* Will rad waste generated outside the hot, warm or plume zones be returned to Japan or treated as US generated waste?

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No. Malatan Shikada

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\* Can this waste be declared 91b, "national defense" waste or do we need to treat as commercial low level radwaste?

- \* If commercial, will we need import permit from NRC?
- \* Can we access DOE disposal sites?
- 3. Wrap up

#### Meeting Summary:

The objective of today's telecon was to assist the DoD in developing the appropriate guidance to address any regulatory requirements for the appropriate disposition of LLWR generated by DoD operations in support of Operation Tomodachi OCONUS and CONUS. The 4 questions identified above were reviewed. Key points follow:

- \* Locations of concern with respect to accumulated LLRW
- o In Japan outside of hot zone
- o Sea platforms
- o Retrograde in theatre
- o Stateside decon locations
- \* Recommended areas for disposition
- o In Japan disposition in Japan
- o Sea platforms disposition in Japan
- o Retrograde in theatre disposition in Japan
- o Stateside decon locations disposition in US
- \* Disposition requirements
- o In Japan:

\* Need DOS assistance to determine what agreements and any potential legal requirements need to be negotiated with the Government of Japan (GOJ), to ensure that we are following appropriate GOJ disposition requirements.

- \* Need specifics on GOJ's waste disposition requirements.
- o Stateside:
- \* RCRA regulated waste need determination on whether or not there will be mixed hazardous waste

\* Does DoD and/or commercial vendors need any source special or byproduct material licensing to handle LLRW (or retrograde?)

いたい 人名英格兰 さんいい とういうかい うちょうしい

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NRC import requirements -

DoD has an exclusion for their own LLRW

\* See background NRC regulations information provided by Ms. Janice Owens, NRC, regarding general license for import, and definitions as follows.

#### § 110.27 General license for import.

(a) Except as provided in paragraphs (b) and (c) of this section, a general license is issued to any person to import byproduct, source, or special nuclear material if the U.S. consignee is authorized to receive and possess the material under a general or specific NRC or Agreement State license issued by the Commission or a State with which the Commission has entered into an agreement under Section 274b. of the Atomic Energy Act.

(b) The general license in paragraph (a) of this section does not authorize the import of more than 100 kilograms per shipment of source and/or special nuclear material in the form of irradiated fuel.

(c) Paragraph (a) of this section does not authorize the import under a general-license of radioactive waste.

(d) A person importing formula quantities of strategic special nuclear material (as defined in § 73.2 of this chapter) under this general license shall provide the notifications required by § 73.27 and § 73.72 of this chapter.

(e) A general license is issued to any person to import the major components of a utilization facility as defined in § 110.2 for end- use at a utilization facility licensed by the Commission.

(f) Importers of radioactive material listed in Appendix P to this part must provide the notifications required by § 110.50.

[51 FR 47208, Dec. 31, 1986, as amended at 56 FR 38336, Aug. 13, 1991; 58 FR 13003, Mar. 9, 1993; 60 FR 37564, July 21, 1995; 61 FR 35602, July 8, 1996; 65 FR 70291, Nov. 22, 2000; 68 FR 31589, May 28, 2003; 70 FR 37991, July 1, 2005; 75 FR 44089, Jul. 28, 2010]

#### § 110.2 Definitions.

Radioactive waste, for the purposes of this part, means any material that contains or is contaminated with source, byproduct, or special nuclear material that by its possession would require a specific radioactive material license in accordance with this Chapter and is imported or exported for the purposes of disposal in a land disposal facility as defined in 10 CFR part 61, a disposal area as defined in Appendix A to 10 CFR part 40, or an equivalent facility; or recycling, waste treatment or other waste management process that generates radioactive material for disposal in a land disposal facility as defined in 10 CFR part 61, a disposal area as defined area as defined in Appendix A to 10 CFR part 40, or an equivalent facility; or recycling, waste treatment or other waste management process that generates radioactive material for disposal in a land disposal facility as defined in 10 CFR part 61, a disposal area as defined in Appendix A to 10 CFR part 40, or an equivalent facility. Radioactive waste does not include radioactive material that is—

(1) Of U.S. origin and contained in a sealed source, or device containing a sealed source, that is being returned to a manufacturer, distributor or other entity which is authorized to receive and possess the sealed source or the device containing a sealed source;

(2) A contaminant on any non-radioactive material (including service tools and protective clothing) used in a nuclear facility (an NRC- or Agreement State-licensed facility (or equivalent facility) or activity authorized to possess or use radioactive material), if the material is being shipped solely for recovery and beneficial reuse of the non-radioactive material in a nuclear facility and not for waste management purposes or disposal;

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(3) Exempted from regulation by the Nuclear Regulatory Commission or equivalent Agreement State regulations;

(4) Generated or used in a U.S. Government waste research and development testing program under international arrangements;

(5) Being returned by or for the U.S. Government or military to a facility that is authorized to possess the material; or

(6) Imported solely for the purposes of recycling and not for waste management or disposal where there is a market for the recycled material and evidence of a contract or business agreement can be produced upon request by the NRC.

Note: The definition of radioactive waste in this part does not include spent or irradiated fuel.

Deanne J. Idar, Ph.D.

Senior Science Advisor

OSD(P)-GSA/CWMD/ CBRN Defense Policy

Office: Rm 5C746 Pentagon

Phone: 703-571-2327



From: Sent: To: Subject: Stahl, Eric Friday, April 08, 2011 9:45 PM LIA03 Hoc Re: Your Call?

I'll try to call at around 11:30pm your time if possible. If not I'll write a summary a send it in.

Thanks, Eric

Eric Stahl Office of International Programs U.S. Nuclear Regulatory Commission

Sent from NRC Blackberry

From: LIA03 Hoc To: Stahl, Eric; Emche, Danielle Sent: Fri Apr 08 21:41:09 2011 Subject: Your Call?

Hi –

Can you tell me when/if you will be calling in with any status or updates? If so, what time can I expect your call? Please let me know either way.

Thanks,

Gerri

From: Sent: To: Cc: Subject: LIA06 Hoc Thursday, April 07, 2011 5:38 PM OPA Resource; Harrington, Holly; Burnell, Scott LIA08 Hoc FW: ACTION - FW: Help in Japan

This offer for assistance was sent to INPO. I am forwarding it to you all for awareness, but since it was not sent to NRC I don't see a need to reply.

Mark Lombard Liaison Team Director U.S. Nuclear Regulatory Commission Operations Center

-----Original Message-----From: LIA01 Hoc Sent: Thursday, April 07, 2011 5:25 PM To: LIA08 Hoc; LIA06 Hoc Subject: FW: ACTION - FW: Help in Japan

-----Original Message-----From: RMTPACTSU\_ELNRC [mailto:RMTPACTSU\_ELNRC@ofda.gov] Sent: Thursday, April 07, 2011 5:24 PM To: inpoercassistance@inpo.org Cc: LIA01 Hoc; LIA11 Hoc; LIA02 Hoc; LIA03 Hoc; RMTPACTSU\_ELC; RMTPACTSU\_ELNRC Subject: ACTION - FW: Help in Japan

Please refer to the email string below for an offer of support/assistance for your review/evaluation. Thanks in advance for your help!

-----Original Message-----From: RMTPACTSU\_ELC Sent: Thursday, April 07, 2011 5:18 PM To: RMTPACTSU\_ELNRC Subject: FW: Help in Japan

In case you're taking personnel, as well...

-----Original Message-----From: Public Inquiries (LPA) (USAID) [mailto:PI@usaid.gov] Sent: Wednesday, April 06, 2011 2:34 PM To: RMTPACTSU\_ELC Cc: RMTPACTSU\_CRC Subject: FW: Help in Japan -----Original Message-----

From: [mailto: [b)(6) Sent: Tuesday, April 05, 2011 8:07 PM To: Public Inquiries (LPA) (USAID) Subject: Help in Japan

This form was filled out at: <u>http://www.usaid.gov/public\_inquiries.html</u>

User's name: Gregg Jacoby

Country: United States

Contact? Please Contact Me

Hello,

I worked in the nuclear industry from 1975 to 1995. I certified SRO on a BWR6 (Perry- GE Cert) and BWR2 (Nine Mile Point 1). I also certified as a reactor operator instructor while at Nine Mile in 1987 (INPO). I also worked for Zimmer, Pilgrim, Peach Bottom (BWR3), Limerick, Shoreham (including emergency off-site planning LERO) and Susquehanna. The Fukashima units that are in trouble and they are 3's. Remove jet pumps and add three recirc loops and you have Nine Mile 1. Both are Mark 1 primary containments. I know I have been out a while but I still have it rolling in my head. If Japan has a need, then I would like to learn more. Being(b) radiation has less of an effect. I must stress that I am serious. I would expect dosimetry for tasks in radiation areas, but it really only has to closely approximate my total whole body dose. Please let me know if there is a need. My cell is (b)(6). Call or text. My other email is (b)(6).

Thanks, Gregg

#### Gregg Jacoby

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From: Sent: To: Subject:

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Hoc, PMT12 Saturday, April 09, 2011 11:45 AM PMT03 Hoc FW: request to NRC to facilitate detection measurements.

Please create a task for this.

From: Hoc, PMT12 Sent: Saturday, April 09, 2011 10:58 AM To: Giitter, Joseph; Howe, Allen Cc: FOIA Response.hoc Resource Subject: FW: request to NRC to facilitate detection measurements.

Joe and Allen,

Please see the request from NNSA below. Would you please advise us (PMT) whether or not the plants can accommodate this request and how we should coordinate it? We are assuming that they would like to calibrate their equipment on BWR plants so the lowa plant is probably Duane Arnold. Thanks.

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Stu Magruder PMT PAAD

From: NITOPS [mailto:NITOPS@nnsa.doe.gov] Sent: Saturday, April 09, 2011 9:27 AM To: Hoc, PMT12; PMT02 Hoc; HOO Hoc Cc: NITOPS Subject: FW: request to NRC to facilitate detection measurements.

PMT,

Please be advised of the e-mail below.

Perry Nuclear Incident Team (NIT) Office of Emergency Response (NA-42) National Nuclear Security Administration U.S. Department of Energy <u>nitops@nnsa.doe.gov</u> <u>nit@doe.sgov.gov</u> 202-586-8100

From: Tilden, Jay Sent: Friday, April 08, 2011 4:20 PM To: NITOPS Cc: Georgevich, Vladimir (CONTR); Aoki, Steven; 'Joseph.Rivers@nrc.gov' Subject: RE: request to NRC to facilitate detection measurements.

NITOPS - please pass on to NRC Operations Center for action.

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#### NRC Ops,

We are requesting your help with facilitating access to a reactor for three of our scientist to calibrate diagnostic equipment at one of the nuclear power plants listed below. We would like this radiation diagnostic team to be given permission to enter one of the US reactor plants to take radiation measurements for the purpose of calibrating the instrumentation in the presence of an operating reactor with a realistic shielding and operational core geometry configurations that are most similar to the reactors in Japan. Our goal is to validate whether this equipment could be used at the Fukushima NPP and determine additional details regarding damaged core geometry.

We need NRC's help in getting appropriate permissions. We have identified four reactors in the US that fit that profile. They are ranked 1-4 in terms of convenience for our detection folks to get to them. These reactors are:

- 1) Cooper-Nebraska
- 2) Palo-Iowa
- 3) Oyster Creek-New Jersey
- 4) Nine Mile Point-New York

The diagnostic team would comprise of 3 Q cleared individuals with appropriate Radiation Worker Training. We would welcome help from hosting plant by providing us with the following:

- 1. 2 day access to various points in and around the plant to calibrate equipment (a list could be compiled if needed)
- 2. Escort by knowledgeable Facilities Engineering Tech Rep who knows the facility and its materials, thicknesses, etc.
- 3. Plant POC contact info to work out the details prior to deployment.

Vlad Georgevich is the POC/coordinator for this request. He can be contacted at cell

Jay A. Tilden Japan Logistics Coordinator & Dir. NA-47, NNSA 202-586-3165 From: Sent: To: Subject:

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ET07 Hoc Saturday, April 09, 2011 1:53 PM Kozal, Jason RE: fun with shift staffing

Ah. You are too kind. You can work it on mid shift then - that will give you something to work then.

I'll have to do some quick turnover updates for the log so you will know what's going on when you get here. The short story is that we're moving to six folks as of 7 am Monday morning. So the Sunday-Monday mid shift is still on. Then a much reduced group on Monday. Most of our branch will be off the hook then, and can move to full-time FOIA..... Great, now I've demoralized myself...

From: Kozal, Jason Sent: Saturday, April 09, 2011 1:49 PM To: ET07 Hoc Subject: Re: fun with shift staffing

I took that mid shift for Jeff Grant as status officer.

Sent from an NRC BlackBerry Jason W Kozał

From: ET07 Hoc To: Kozal, Jason Sent: Sat Apr 09 13:47:48 2011 Subject: RE: fun with shift staffing

Are you on shift tonight?

From: Kozal, Jason Sent: Saturday, April 09, 2011 1:43 PM To: ET07 Hoc Subject: Re: fun with shift staffing

Jane,

Thanks for demoralizing me. I will have to take a look at it on paper. Can I work on it on shift this tonight or do I need to look at it now.

Sent from an NRC BlackBerry Jason W Kozal

From: ET07 Hoc To: Kozal, Jason

### Sent: Sat Apr 09 13:40:29 2011 Subject: fun with shift staffing

Jason-

Any way to even out the hours on the schedule? Yep, all your hard work is now reduced to "option 1" and has been expanded to cover the next two and a half pay periods (this coming week doesn't count). By the way, you can have Pete and Sally back for NLE.

Is there any way to even up the guys that end up with -21 hours for the pay period? I'm assuming an 8.5 hour day (shift plus turnover).

Jane

From: Sent: To: Subject:

ET07 Hoc Saturday, April 09, 2011 2:42 PM Kozal, Jason RE: fun with shift staffing

You might want to add the other options back into the mix... really they're not gone, I just focused on and added to Option 1. The ET is focusing on using Option 1, but the other teams may want to consider the other options. Part of the objective is to limit the number of folks with their fingers in the stew.

From: Kozal, Jason Sent: Saturday, April 09, 2011 1:55 PM To: ET07 Hoc Subject: Re: fun with shift staffing

You have to be careful of that. Ok I will see what I can do with it tonight.

Sent from an NRC BlackBerry Jason W Kozal

From: ET07 Hoc To: Kozal, Jason Sent: Sat Apr 09 13:53:27 2011 Subject: RE: fun with shift staffing

Ah. You are too kind. You can work it on mid shift then – that will give you something to work then.

I'll have to do some quick turnover updates for the log so you will know what's going on when you get here. The short story is that we're moving to six folks as of 7 am Monday morning. So the Sunday-Monday mid shift is still on. Then a much reduced group on Monday. Most of our branch will be off the hook then, and can move to full-time FOIA..... Great, now I've demoralized myself...

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From: Kozal, Jason Sent: Saturday, April 09, 2011 1:49 PM To: ET07 Hoc Subject: Re: fun with shift staffing

I took that mid shift for Jeff Grant as status officer.

Sent from an NRC BlackBerry Jason W Kozal

From: ET07 Hoc To: Kozal, Jason Sent: Sat Apr 09 13:47:48 2011 Subject: RE: fun with shift staffing Are you on shift tonight?

From: Kozal, Jason Sent: Saturday, April 09, 2011 1:43 PM To: ET07 Hoc Subject: Re: fun with shift staffing

Jane,

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From: ET07 Hoc To: Kozal, Jason Sent: Sat Apr 09 13:40:29 2011 Subject: fun with shift staffing

Jason-

Any way to even out the hours on the schedule? Yep, all your hard work is now reduced to "option 1" and has been expanded to cover the next two and a half pay periods (this coming week doesn't count). By the way, you can have Pete and Sally back for NLE.

Is there any way to even up the guys that end up with -21 hours for the pay period? I'm assuming an 8.5 hour day (shift plus turnover).

Jane

From: Sent: To: Subject: Attachments:

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Blount, Tom Saturday, April 09, 2011 7:55 PM ET07 Hoc boardfile.aspx boardfile.docx

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Pls print 3 copies color

## Transition Team Reoccurring Daily Actions and Calls

| -Time<br>(EDT) | Description                                                                   | Lead Team<br>(Will identify position lead<br>for transition team) | Action/Purpose of the Call                                                                                                 | Recommendation                                   |
|----------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 0230           | Input for SIT REP                                                             | All Team Directors                                                | Submit input to EBT Coordinator                                                                                            | Provide to Mailbox<br>for daily<br>consolidation |
| 0300           | RST/PMT call with Japan<br>Team                                               | RST/PMT<br>(arranged by the HOO)<br>(b)(6)                        | Daily update for Site Team and HQ (convenient time for the Site Team)                                                      | EST RA: Keep                                     |
| 0430           | Status update & 2 pager/Sit<br>Rep (BRIEFING ONLY-not a<br>call)              | All Team Directors                                                | Provide input to EBT Coordinator for<br>development of Agency briefing<br>documents                                        | PMT: This should stay                            |
| 0600           | One Pager                                                                     | ET, Response<br>Advisor                                           | Provide input to EBT Coordinator                                                                                           | PMT: This should stay                            |
| 0600           | Congressional Update                                                          | Ta                                                                | ken From Status Update                                                                                                     |                                                  |
| 0715           | Chairman's Brief                                                              | ĘŢ                                                                | Update chairman and staff during turnover                                                                                  |                                                  |
| Canceled       | Only on 4/8/11 as requested by the Chairman                                   |                                                                   |                                                                                                                            |                                                  |
|                | Deputy Secretaries (as scheduled)                                             | ET                                                                | White House lead (-Chairman<br>participates)<br>-Interagency discussion                                                    |                                                  |
| 0900           | RST Status Call with INPO                                                     | RST                                                               | Update status of Reactors and SFPs                                                                                         |                                                  |
| 0930           | UK/Canada/France Call                                                         | RST/PMT<br>* * (arranged by HOO)<br>Bridge((b)(6)                 | Information Exchange. Focused on<br>Operational issues (Combining PMT call<br>from 1400 for Dose issues. Starting 3/28)    | PMT: Go to weekly                                |
| 1000           | TAs & CAs briefing                                                            | ET<br>* * (arranged by HOO)<br>[76000 (b)(6)                      | ET Director lead<br>-briefed Commission TAs and ODs                                                                        | PMT: Suggest twice<br>a week                     |
| 1100           | ESF8-(Public Health & Medical Services )                                      | LT<br>(Conference number<br>provided by HHS)                      | HHS Secretarys Operations Center lead<br>-Interagency discussion NOTE call will be<br>held on Tuesdays and Fridays only.   | Reduce to 1/week<br>(Tuesday)                    |
| 1100           | Technical Coordination with (Industry Consortium                              | RST<br>(arranced by HOO)<br>(b)(6)                                | Technical discussion                                                                                                       | Xfer to NRR                                      |
| 1100           | Info Exchange: US<br>Environmental Monitoring<br>Data (weekly after 4/5; next | Arranged by NEI                                                   | "Radiological Status & Implications" call<br>between NRC, NEI, EPA, DOE, OSTP. NEI<br>or OSTP will set up the bridge line. | Xfer to NRR                                      |

April 9, 2011 14:30 hrs

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**Transition Team Actions and Calls** 

This document can be found on WEBEOC in the "ET Misc. Document Collection" Board

## Transition Team Reoccurring Daily Actions and Calls

|            | call to be April 12 at 11:00)                                                                |                                                                                                | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                           |                                                                                                                |
|------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1230       | NTAG teleconference<br>(chaired by NSS)                                                      | PMT Director to lead                                                                           | Nuclear Technical Advisory Group –email sent out daily with phone # and pass code                                                                                                               | Xfer to NRR                                                                                                    |
| 1400       | USAID<br>Starting 4/5 call will be on <u>Tuesdays</u> only<br>877.334.8037 Password ((b)(6)) | LT/OCA                                                                                         | USAID lead NOTE- Starting 4/5 call will be on Tuesdays<br>only.<br>-Interagency discussion: Federal pre-<br>coordination takes place at 1:45 and then<br>the 2pm call with Congressional staff. | Xfer to OIP                                                                                                    |
| 1400       | NARAC                                                                                        | PMT                                                                                            | DOE lead                                                                                                                                                                                        | and a second |
|            |                                                                                              | * * (arranged by HOO)                                                                          | -Interagency discussion of dose models                                                                                                                                                          |                                                                                                                |
| 1400       | Advisory Team                                                                                | White House/PMT                                                                                | Call with the White House to help with<br>coordination and ensure PMT/White<br>House is aware of current information<br>Call: (b)(6) Pin #: (b)(6)                                              | PMT: Keep on an as-needed basis.                                                                               |
| 1500       | One Pager                                                                                    | ET, Response<br>Advisor                                                                        | Provide Input to EBT Coordinator                                                                                                                                                                | Delete (feeder for 1<br>time daily)                                                                            |
| 1500       | Congressional call                                                                           | OCA &<br>NRC Go-To Team<br>(Leeds, M.Johnson,<br>Sherron, B.Boger, etc)<br>800-593-7189 (b)(6) | OCA lead -Audience is Congressional<br>staff who have or are near a plant;<br>Oversight committees; House &Senate<br>leadership                                                                 | OCA has it                                                                                                     |
| 1515       | Chairman's brief                                                                             | ET<br>(arranged by HOO)                                                                        |                                                                                                                                                                                                 |                                                                                                                |
| 1545       | Radiological Community of<br>Interest VTC                                                    | Vince Holahan,<br>Tony Ulses, Jim<br>Whitney                                                   | Held in SCIF                                                                                                                                                                                    | Xfer to NSIR                                                                                                   |
| 1600       | Input to Status Update                                                                       | All Team Directors                                                                             | Provide input to EBT Coordinator                                                                                                                                                                |                                                                                                                |
| 1700       | PACOM J2 call                                                                                | RST/PMT                                                                                        | Occurs in SGT Room on Mon, Wed, Fri.<br>PACOM will dial into 301-415-5393.                                                                                                                      | PMT: Intermittently,<br>on an as-needed<br>basis                                                               |
| 1700       | HHS call with 50 states and federal partners                                                 | LT/State Liaison                                                                               | Meeting occurs each Tuesday and<br>Thursday evening, as organized by HHS<br>(N.Natarajan). HHS provides bridge line<br>day of call                                                              | Xfer to FSME                                                                                                   |
| 1700       | DOE Science Panel                                                                            | RES                                                                                            | Brian Sheron and Richard Lee, out of the                                                                                                                                                        | RES                                                                                                            |
| April 9, 2 | 2011 14:30 hrs                                                                               | Transition Team Actions a                                                                      | Ind Calls This document can be found on WER Collection' Board                                                                                                                                   | BEOC in the "ET Misc. Do                                                                                       |

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## Transition Team Reoccurring Daily Actions and Calls

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|                               |                                                                  |                                            | box solutions.                                                                                                                            |                                                              |
|-------------------------------|------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1700                          | RST/PMT call with Japan<br>Team                                  | RST/PMT<br>(arranged by the HOO)<br>(b)(6) | Daily update for Site Team and HQ<br>(convenient time for the Site Team)                                                                  | PMT: Eliminate                                               |
| 1800                          | Status update & 2 pager/Sit<br>Rep<br>(BRIEFING ONLY-not a call) | EBT                                        | EBT developed agency briefing documents                                                                                                   | Keep based on<br>Feedback, make this<br>primary 1 time daily |
| 1830                          | Chairman's Call with Chuck<br>Casto                              | Chairman/Chuck                             | Brief on status                                                                                                                           |                                                              |
| 1900                          | Call with Vince Holahan<br>PACOM                                 | PMT                                        | Status of Radiological Conditions<br>Vince Direct Line – 808.477.9536, if no<br>answer 808.477.9286 or SWO<br>808.477.8173<br>Cell (6)(6) | PMT: Still wanted                                            |
| 2000                          | HHS Call with Pacific                                            | HHS                                        | Meeting occurs each Wed. evening. Call<br>in 888-455-7847 (b)(6) is the<br>passcode. PMT to participate                                   | Xfer to ?                                                    |
| 2000 re-<br>initiated<br>3/29 | Call with Industry Consortium (daily)                            | ET<br>***(arranced by HOO)                 | ET Led High-level discussions with<br>industry and NRC Site Team                                                                          |                                                              |
| 2100                          | PMT call with Japan Team                                         | PMT<br>(arranged by the HOO)<br>(b)(6)     | Daily update for Site Team and HQ (convenient time for the Site Team)                                                                     | PMT: Keep                                                    |
| 2200                          | One Pager                                                        | ET, Response<br>Advisor                    | Provide Input to EBT Coordinator                                                                                                          | Feeder for 1 time<br>daily - send to<br>mailbox              |
| 2200                          | One pager                                                        | EBT                                        | Update chairman via email using one-<br>pager                                                                                             |                                                              |



April 9, 2011 14:30 hrs

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Transition Team Actions and Calls

This document can be found on WEBEOC in the "ET Misc. Document Collection" Board

From:LIA02 HocSent:Saturday, April 09, 2011 11:35 PMTo:Abrams, Charlotte; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov'; Bloom,<br/>Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English,<br/>Lance; Smiroldo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd,<br/>Jill; Baker, Stephen; Emche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens,<br/>Janice; Fehst, Geraldine; Foggie, Kirk; Breskovic, Clarence; LIA08 Hoc; LIA06 HocCc:Mamish, Nader; Doane, Margaret; LIA02 HocSubject:OUO: Transition Report April 9 1530-2400

#### -OFFICIAL-USE ONLY-

#### TRANSITION REPORT FOR APRIL 9, 1530 - 2400 Gerri to Elizabeth

#### Updates during Shift

- A draft paper prepared by the Site Team's Michel Hay, subject line "NRC Response to Fukushima Event," was forwarded to LIA02 by the LT Coordinator for OIP and LIA02 review and comment. LIA02 provided edits, then forwarded the draft to International Liaisons for their review and comment. Action: track comments and status of report.
  - Fourth Team to Japan. Members for team#4 will leave this week. Brian Wittick left on 4/9; Steve Garchow (RIV), Heather Gepford (RII), Tony Huffert (RES), Jeff Mitman (NRR), Carl Moore (RIII), and Steve Reynolds (RIII) will leave on 4/12. Additional travelers may be identified to leave on 4/14. USAID is the funding source. Action: Added Team #4 list of travelers and emergency contact information to both the Japan Traveler List, and Japan Traveler Contact/Emergency contact information file. Both files are located on LIA02 desktop. Pending action: Update Team#4 grid as requested traveler information comes in.
- Coordination of IAEA and U.S. Efforts. While the IAEA's Incident and Emergency Centre (IEC) has not agreed to be a formal "clearinghouse" (i.e., actively reaching out to all IAEA member states requesting that all assistance efforts be coordinated through the IEC), they are tracking all offers for assistance via a database that was posted on ENAC last week. For the effort to be effective, they need input from countries, and they do not have anything from the United States. The State Department is the lead in the "Consortium." INPO is the lead on equipment issues. Although US Embassy Tokyo had established a tracking system to compile assistance requests from the Japanese and offers from USG entities, INPO had been separately tracking equipment requests (see INPO item below). The Embassy and INPO tracking have been merged. On April 5<sup>th</sup>, LT received the latest equipment request matrices from USAID, originated by the Tokyo embassy. During April 5<sup>th</sup> conference call, OMB indicated to LT that they intend to start approving all finances for equipment purchases for Japan.
- Mailbox size limits. Team requested verification that mailboxes had size limits increased due to difficulties sending emails. On 4/7 received response from Joe Turner/OIS that email box sizes for those in Japan are being monitored daily for max capacity. Action: Notified Joe Turner about Team#4 travelers. Notify Joe Turner as new travelers are identified to leave for Japan.
- Plant Status Updates. James Whitney, NSIR has requested that all of the "Plant Status" news releases on ENAC be sent to him to assist other government agencies in their analysis of the situation. Action: Send james.whitney@nrc.gov "plant status updates" on ENAC as they come in (sent during day shift on 4/9).
- TEPCO Earthquake Info. Vince Holahan, the NRC staff member embedded with PACCOM, has requested to be on the distribution list for the Japanese earthquake info sent from TEPCO. Action: Please forward these emails to <u>Vince.Holahan@nrc.gov</u> as they are received.

- Request to Share RST Document with Foreign Governments: The Governments of Canada, the UK and Finland have requested that the RST share their "Stability Document," which they have discussed during their daily call with these governments. The request was forwarded to the ET, who is assessing what information is contained in the document before deciding on whether or not to share the document. The document is still in draft (awaiting interagency comments). PMT was given permission to read the draft document to conference call members. Release of this document will be addressed as part of the process being developed to address the release of a document to NY Times. Action: Continue to follow. UPDATE: A copy of the RST Stability Document was released to Mark and he was instructed not to release it to any other organization and that it was for his use only.
- 1 Pager for Margie's Morning Meeting Danielle/Eric requested that the draft be sent to them to add to it overnight. They will send back updates via email. Action: Work off of the draft sent back from them. If they don't send back any updates overnight, then work off of the draft completed.

#### **Future Actions/OPEN ITEMS**

- News Reports on IAEA "Recommendation" to Extend Evacuation Zone: News media is reporting that the IAEA has called on Japan to extend the evacuation zone around Fukushima, based on abnormal levels of radiation detected in a village outside the current evacuation zone. This was neither a special announcement nor a formal recommendation from the IAEA. Instead, the reports result from information provided at the March 30 IAEA technical briefing, at which DDG Denis Flory reported on the location of the abnormal radiation levels and noted that they were located outside the evacuation zone. When asked a direct question about whether the IAEA was recommending that Japan extend the zone, DDG Flory stated only that the IAEA was encouraging the "counterpart" to "carefully assess the situation." Full summary of technical briefing here: http://iaea.org/newscenter/news/tsunamiupdate01.html. relevant paragraph is the fourth paragraph under item #2, "Radiation Monitoring." Jen Schwartzman verified with Mark Shaffer that no formal announcement has come from IAEA in this regard.
- Deputies Committee Decisions and Action Items: SECY has been sending summaries of the Deputies Committee meetings as they are received and the LT Director/Coordinator have been tracking any actions pertinent to the LT. There are currently no international liaison tasks resulting from these meetings but the LT Director will inform us if this changes. Action: Mark Shaffer would like to see the summaries.
- Translators. 24/7 translation coverage in the HOC has been suspended. Mike Call who is in Japan until 4/16 speaks Japanese, At HQ there is a Japanese foreign assignee and other options available. Also, Tony Nakanishi may be available to provide translation assistance. USAID is paying for an NRC-dedicated translator in Tokyo. If we need items translated and cannot get assistance from within NRC, we can rely on them. Action: If in need of USAID translation support, fax the document to +81-3-3224-5538 and send a scanned (PDF) copy to the Japan site team as a backup.
- INPO: All equipment requests are now going through INPO. They are consolidating all available information. Contact information for INPO is 770-644-8118 or email at inpoercassistance@inpo.org.
- NRC Health Unit request: The NRC team members were given KI before they left. At this time the guidance is to not take the KI while on duty in Tokyo. However, due to the still-fluid nature of the environmental hazards posed by radioactive isotopes, there is still the possibility that KI could be required at some point. Should it become necessary to have the NRC team take the KI, the LIA02/LIA03 international liaisons would be responsible for receiving the advice from ADM/Dr. Cadoux and to get the information to the team immediately.
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- **Update Japan Traveler Information Document on LIA02 with Return Team info** from LT Director please update the fraveler table as NRC Japan Travel Team members return to U.S. **ACTION:** Await reply emails from returned travelers and update the Document on LIA02.
- Announcement of French nuclear safety meeting in May: Reuters is reporting that Sarkozy has announced plans for a high-level meeting of "G20 nuclear industry officials" in Paris in May 2011 "to define international nuclear safety standards." The article states that Sarkozy "declared this [meeting] would lay the groundwork for the IAEA high-level meeting on June 20-24. We are seeking additional information on this announcement from official channels. Message sent to Eric at 0400 inquiring whether he has heard anything via his French contacts (noting that ASN will be meeting with the NRC Team in the next day or two). Report any new information learned to OIP management and ET. The policy to delay meeting will be articulated by DOS high level representatives at a G-20 meeting in Abu Dhabi the week of April 4. The French announced their intent to convene this meeting, and stated that the Japanese Prime Minister is supportive. ACTION: OIP will continue to interact with interagency as appropriate and update ET.

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  the right to show which emails were sent.
- The international team should sit in on calls with the ET and team leader (Chuck or Dan) to take notes and provide a short summary of what was discussed via email to OIP reps on Japan Team. The Chairman's briefing has been moved to 0800 while he is in Vienna, April 4-6, and will involve a three way call with Casto, ET, and Chairman. [Japan 13 hours ahead, Vienna 6 hours ahead]
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have an international call.
- Reminder to Keep Mark Shaffer in-the-loop at <u>shaffermr@state.gov</u>, regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.
- Reminder to keep ISN/NESS on the distribution list for the NRC Japan situation reports ISN-NESS-DL@state.gov.
- Keep RST and PMT updated on who is currently in Japan on NRC team.
- Please make sure to keep the NRC Japan travelers list updated (check the last updated date) and post a new copy on LIA02 cabinet as changes occur.
- OIP has been tasked with providing IAEA ENAC daily summary to Commissioner's TAs and EDO POC. OIP is also being asked to place a cover page on this report indicating the sensitivity of the information. The document will be provided by email.

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| From:    | Evans, Michele                                                                    |
|----------|-----------------------------------------------------------------------------------|
| Sent:    | Sunday, April 10, 2011 8:22 AM                                                    |
| То:      | Kozal, Jason                                                                      |
| Cc:      | LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Marshall, Jane; |
|          | Kowalczik, Jeffrey; Dudek, Michael; ET07 Hoc                                      |
| Subject: | Re: USAID and NRC travel                                                          |

What is the downside of calling them emergent? There are 6 of them.

Plus by tomorrow night I will have 3 more identified. Was going to send them 4/14, but they could be sent 4/15.

Sent from an NRC Blackberry Michele Evans

From: Kozal, Jason To: Evans, Michele Cc: LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Marshall, Jane; Kowalczik, Jeffrey; Dudek, Michael; ET07 Hoc Sent: Sun Apr 10 02:24:33 2011 Subject: USAID and NRC travel

Resent with a subject line Jason Kozal USNRC/NSIR jason,kozal@nrc.gov

From: Kozal, Jason Sent: Sunday, April 10, 2011 2:22 AM To: Evans, Michele Cc: LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Marshall, Jane; Kowalczik, Jeffrey; Dudek, Michael; ET07 Hoc Subject:

Michele,

USAID called me Friday evening to discuss what their capabilities will be from USAID HQ going forward.

They have drawn down their staffing to a Response Manager (<u>RMTPACTSU\_RM@ofda.gov</u>) and an Admin Coordinator (<u>RMTPACTSU\_AC@ofda.gov</u>) on dayshift Monday through Friday only. Due to this drawdown, the NRC no longer maintains a imbedded liaison at USAID. I will continue to act as the liaison with USAID in order to address and resolve any issues that come up between us.

Due to the draw down of resources at USAID the ability of the NRC to travel on short notice (1-2 days) will be impacted. In order to ensure our travelers can meet our required travel dates, USAID is requesting that we give them 4 days notice unless the travel is deemed to be emergent. This will allow the USAID Admin Coordinator time to create travel profiles for all of the travelers, submit country clearances, obtain visas (if this becomes necessary), and arrange and get approval for the travel. I saw that we have another wave of NRC travelers slated to travel on Tuesday the 12th. The USAID Admin Coordinator will not have visibility of these travelers until Monday morning. The 14th would probably be a more realistic target date for these travelers. I will send the names of the travelers to USAID tonight, and

call Monday morning to discuss this with the USAID Response Manager to discuss this issue. I will need to know if we absolutely need these folks to travel on the 12th or if later in the week is OK.

The second question they had was about staffing in Japan. At what levels are we planning to maintain our staffing in Japan through the end of the month? This is when USAID is planning on ending their mission, and they are trying to plan out what the remainder of their HQ support is going to look like. I know this is a very flexible situation and they realize it as well. They just would like to know conceptually what the plan or vision is. From what I can tell the situation going forward is as follows:

1) We will maintain approximately 11 staff in Japan to support Ambassador Roos.

2) This will require a 4th wave of travelers next week (week of 4/11). based on this rotation we will need a 5th wave of travelers to go the last week of April (week of 4/25).

3)We will be maintaining this staffing level through the end of the USAID mission. At that time all personnel traveling into or to Japan will transition to NRC travel authority. When this time is identified the NRC and USAID will need a couple of days to ensure all travelers are transitioned to the NRC system.

I would like to communicate a plan to USAID so they have some visibility of what our intentions are. This communication would be provided with the caveat that it could change at any time. Additionally, if the situation were to degrade significantly USAID would ramp up their resources to support any additional efforts required.

2

Thank you for your time and your thoughts.

V/r,

Jason Kozal Federal Interagency Coordinator USNRC/NSIR jason.kozal@nrc.gov

| From:    | LIA02 Hoc                                                                                 |
|----------|-------------------------------------------------------------------------------------------|
| Sent:    | Sunday, April 10, 2011 4:07 PM                                                            |
| To:      | Mamish, Nader; Doane, Margaret; LIA03 Hoc                                                 |
| Cc:      | Abrams, Charlotte; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov'; Bloom,      |
|          | Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English,   |
|          | Lance; Smiroldo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd,     |
|          | Jill; Baker, Stephen; Emche, Danielle; Fragoyannis, Nancy; LIA03 Hoc; Stahl, Eric; Owens, |
|          | Janice; Fehst, Geraldine; Foggie, Kirk; Breskovic, Clarence; LIA08 Hoc; LIA06 Hoc         |
| Subject: | OUO: Transition Report April 10, 0600-1530                                                |

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#### TRANSITION REPORT FOR APRIL 10, 0630 - 1530 Elizabeth to Gerri

#### Updates during Shift

- A draft paper prepared by the Site Team's Michel Hay, entitled "NRC Response to Fukushima Event," (subject line "Global Assessment") was forwarded to a number of stakeholders. LIA02 provided edits, then forwarded the draft to International Liaisons for their review and comment. This document does not yet include RST input, but that is in the works. Action: track comments and status of report. Send IAEA Liaison final draft.
  - Fourth Team to Japan. Members for team#4 will leave this week. Brian Wittick left on 4/9; Steve Garchow (RIV), Heather Gepford (RII), Tony Huffert (RES), Jeff Mitman (NRR), Carl Moore (RII), and Steve Reynolds (RIII) will leave on 4/12. A heads up was sent from Karen Jackson on 4/10 noting that USAID was not working over the weekend, and normally needs 4 days to process travel. USAID is the funding source. Action: Contact USAID and tell them (as per request from Marty Virgilio) that all 6 travelers who are yet to be departed are to be considered "emergent" (sic) and to please expedite their travel. Monitor USAID for response; inform team#4 travelers of results. Added Team #4 additional emergency contact information to both the Japan Traveler Contact/Emergency contact information file. Was contacted by several of the travelers with checklist questions and general info, esp. related to arranging travel. Put them in touch with Mary Carter of OIP and others who can help coordinate and answer questions. Forwarded requests for blackberries to Karen Jackson; they are being processed. Also update Team#4 grid as requested traveler information comes in. Other travelers may emerge.
- Coordination of IAEA and U.S. Efforts. While the IAEA's Incident and Emergency Centre (IEC) has not agreed to be a formal "clearinghouse" (i.e., actively reaching out to all IAEA member states requesting that all assistance efforts be coordinated through the IEC), they are tracking all offers for assistance via a database that was posted on ENAC last week. For the effort to be effective, they need input from countries, and they do not have anything from the United States. The State Department is the lead in the "Consortium." INPO is the lead on equipment issues. Although US Embassy Tokyo had established a tracking system to compile assistance requests from the Japanese and offers from USG entities, INPO had been separately tracking equipment requests (see INPO item below). The Embassy and INPO tracking have been merged. On April 5<sup>th</sup>, LT received the latest equipment request matrices from USAID, originated by the Tokyo embassy. During April 5<sup>th</sup> conference call, OMB indicated to LT that they intend to start approving all finances for equipment purchases for Japan.
- Watch schedule is changing in Ops Center. The line organization will be involved more, and work in the Ops Center will include fewer people (6 people): An overall report defining changes to the Watch schedule and strategy is being developed by the ET. Outlook has been changed so that all three International Desk computers receive all email sent to each computer. There are folders for the other computers. This will capture all the messages and allow us to avoid checking more than one computer. ACTION: The OIP checklist will need to be changed regarding whom to contact for obtaining blackberries, laptops, etc., as Karen Jackson on ET02 Hoc will no longer be that person (someone within OIS should be identified by management). Karen said a transfer plan should be set up such that the

- blackberries remain in Japan, but get reset using new travelers' email accounts from our end as team members are replaced.
- Mailbox size limits. Team requested verification that mailboxes had size limits increased due to difficulties sending emails. On 4/7 received response from Joe Turner/OIS that email box sizes for those in Japan are being monitored daily for max capacity. Action: Notified Joe Turner about Team#4 travelers. Notify Joe Turner as new travelers are identified to leave for Japan.
- Plant Status Updates. James Whitney, NSIR has requested that all of the "Plant Status" news releases on ENAC be sent to him to assist other government agencies in their analysis of the situation. Action: Send james.whitney@nrc.gov "plant status updates" on ENAC as they come in (sent during day shift on 4/10).
- **TEPCO Earthquake Info.** Vince Holahan, the NRC staff member embedded with PACCOM, has requested to be on the distribution list for the Japanese earthquake info sent from TEPCO. **Action:** Please forward these emails to <u>Vince.Holahan@nrc.gov</u> as they are received (sent during day shift on 4/10).
- Request to Share RST Document with Foreign Governments: The Governments of Canada, the UK and Finland have requested that the RST share their "Stability Document," which they have discussed during their daily call with these governments. The request was forwarded to the ET, who is assessing what information is contained in the document before deciding on whether or not to share the document. The document is still in draft (awaiting interagency comments). PMT was given permission to read the draft document to conference call members. Release of this document will be addressed as part of the process being developed to address the release of a document to NY Times. Action: Continue to follow. UPDATE (correction): The RST Stability Document was not released to Mark Shaffer (as was previously reported). When the RST Stability Report section is completed, the final draft should be sent to Mark Shaffer, along with the requestors from Canada, UK, and Finland, as well as the Japan team.
- 1 Pager for Margie's Morning Meeting Danielle/Eric requested that the draft be sent to them to add to it
  overnight. They will send back updates via email. Action: Work off of the draft sent back from them. A final is in the
  works for the 4/10/11 one-pager, including Danielle's additions. (In future iterations, if they don't send back any
  updates overnight, then work off of the draft completed.)

#### **Future Actions/OPEN ITEMS**

- News Reports on IAEA "Recommendation" to Extend Evacuation Zone: News media is reporting that the IAEA has called on Japan to extend the evacuation zone around Fukushima, based on abnormal levels of radiation detected in a village outside the current evacuation zone. This was neither a special announcement nor a formal recommendation from the IAEA. Instead, the reports result from information provided at the March 30 IAEA technical briefing, at which DDG Denis Flory reported on the location of the abnormal radiation levels and noted that they were located outside the evacuation zone. When asked a direct question about whether the IAEA was recommending that Japan extend the zone, DDG Flory stated only that the IAEA was encouraging the "counterpart" to "carefully assess the situation." Full summary of technical briefing here: <a href="http://iaea.org/newscenter/news/tsunamiupdate01.html">http://iaea.org/newscenter/news/tsunamiupdate01.html</a>, relevant paragraph is the fourth paragraph under item #2, "Radiation Monitoring." Jen Schwartzman verified with Mark Shaffer that no formal announcement has come from IAEA in this regard.
- Deputies Committee Decisions and Action Items: SECY has been sending summaries of the Deputies Committee meetings as they are received and the LT Director/Coordinator have been tracking any actions pertinent to the LT. There are currently no international liaison tasks resulting from these meetings but the LT Director will inform us if this changes. Action: Mark Shaffer would like to see the summaries.
- Translators. 24/7 translation coverage in the HOC has been suspended. Mike Call who is in Japan until 4/16 speaks Japanese. At HQ there is a Japanese foreign assignee and other options available. Also, Tony Nakanishi may be available to provide translation assistance. USAID is paying for an NRC-dedicated translator in Tokyo. If we need items translated and cannot get assistance from within NRC, we can rely on them. Action: If in need of USAID translation support, fax the document to +81-3-3224-5538 and send a scanned (PDF) copy to the Japan site team as a backup.
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From:Dube, DonaldSent:Sunday, April 10, 2011 7:48 PMTo:RST01 Hoc; Fuller, Edward; Norton, CharlesCc:RST06 HocSubject:RE: ET Question - FUKUSHIMA DAI ICHI UNIT 2 ACCIDENT DESCRIPTION

The working from home using webmail and am not able to download the attachment. Please resend to

as a pdf,

Don Dube

From: RST01 Hoc Sent: Sunday, April 10, 2011 1:43 PM To: Fuller, Edward; Dube, Donald; Norton, Charles Cc: RST06 Hoc Subject: ET Question – FUKUSHIMA DAI ICHI UNIT 2 ACCIDENT DESCRIPTION

Ed/Don/Chuck,

Marty Virgilio has asked if the RST has performed an analysis similar to this Unit 2 analysis on Unit 3. What is our opinion of the status of Unit 3? Response requested sometime early this week. Thanks!

1

Rick Hasselberg RST Coordinator

-----Original Message-----From: Dorsey, Cynthia Sent: Saturday, April 09, 2011 7:47 PM To: RST01 Hoc Subject: FW: FUKUSHIMA DAI ICHI UNIT 2 ACCIDENT DESCRIPTION

-----Original Message-----From: CDD@NRC.GOV [mailto:cdd@nrc.gov] Sent: Saturday, April 09, 2011 7:43 PM To: Dorsey, Cynthia Subject: FUKUSHIMA DAI ICHI UNIT 2 ACCIDENT DESCRIPTION From: Sent: To: Cc: Subject: Attachments: RST01 Hoc Sunday, April 10, 2011 1:44 PM Fuller, Edward; Dube, Donald; Norton, Charles RST06 Hoc ET Question - FUKUSHIMA DAI ICHI UNIT 2 ACCIDENT DESCRIPTION Document.pdf

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# Fukushima Dai Ichi Unit 2 Accident Description

Subsequent to the earthquake and resulting tsunami on March 11, 2011, all power was lost to Unit 2 (among others) and there was no way to provide makeup water to remove the decay heat following reactor shutdown at 14:46. All ac power sources were lost at 15:42, and a high-pressure station blackout situation resulted. The RCIC system was activated shortly thereafter, and water level was controlled in the RPV until all backup battery were exhausted, at about noon on March 14<sup>th</sup>. From then on, a severe accident began, during which the core was uncovered, the drywell was pressurized and vented, the RPV was breached, and a hydrogen burn likely occurred in the reactor building, possibly damaging the torus. Timing of the significant events is shown in Table 1.

| Event                                                             | Day  | Hour  | Remarks                                                                                                                                                                                                                              |
|-------------------------------------------------------------------|------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactor shut down                                                 | 3/11 | 14:46 | · · ·                                                                                                                                                                                                                                |
| All ac power lost                                                 | 3/11 | 15:42 |                                                                                                                                                                                                                                      |
| RCIC initiated                                                    | 3/11 | 15:42 |                                                                                                                                                                                                                                      |
| RCIC lost                                                         | 3/14 | 10:30 | Water level starts dropping at this time.                                                                                                                                                                                            |
| TAF uncovered                                                     | 3/14 | 16:20 |                                                                                                                                                                                                                                      |
| Sea water injection initiated                                     | 3/14 | 16:34 |                                                                                                                                                                                                                                      |
| S/RV opened                                                       | 3/14 | 17:52 | Approximate time. The RPV pressure                                                                                                                                                                                                   |
| OFEIC.                                                            |      |       | drops rapidly from 7350 kPag to 540k                                                                                                                                                                                                 |
| Water 4 meters below TAF                                          | 3/14 | 19.00 | This time is approximate.                                                                                                                                                                                                            |
| First pour of core debris into lower<br>plenum                    | 3/14 | 20:32 | Steam spike results in RPV, to 1440<br>kPag                                                                                                                                                                                          |
| Second pour into lower plenum                                     | 3/14 | 22:50 | RPV pressure peaks at 3150 kPag                                                                                                                                                                                                      |
| Drywell pressure reaches 750 kPaa                                 | 3/14 | 23:45 | Pressure is about 110 psia (125 psig)                                                                                                                                                                                                |
| Drywell vent opened                                               | 3/14 | 24:00 | Venting to avert catastrophic<br>containment failure.                                                                                                                                                                                |
| Third pour into lower plenum                                      | 3/15 | 0:08  | A vessel breach may have occurred<br>here, because the RPV pressure and<br>drywell pressure wer the same after<br>the steam spike ended.                                                                                             |
| High radiation in drywell                                         | 3/15 | 1:53  | This is a signal that the RPV was<br>breached. The radiation level then<br>dimished, probably because airborne<br>fission products were venting into the<br>reactor building.                                                        |
| Abnormal sound in reactor building near suppression pool          | 3/15 | 6:00  | This was probably due to a hydrogen burn in the reactor building.                                                                                                                                                                    |
| Drywell pressure begins to drop                                   | 3/15 | 11:25 | Pressure dropped to aboud 1.6 bars.                                                                                                                                                                                                  |
| Temporary pressure increase in<br>drywell (radiation level jumps) | 3/15 | 13:00 | Radiation level had dropped after<br>initial jump at 1:53. Following 13:00, it<br>remained high. The vessel probably<br>was breached at this time, because<br>the RPV pressure quickly dropped to<br>atmospheric levels and remained |

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|                                                |      |      | there at least to 3/24. The pressure<br>rose to about 4 bars and then<br>decreased to 2.4 bars.                                                                                        |
|------------------------------------------------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Another temporary pressure increase in drywell | 3/16 | 5:35 | More core debris poured out, this time<br>all the way into the pedestal region.<br>The 2.1 bar pressure spike to 4.5 bars<br>was probably caused by molten<br>core/water interactions. |

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From:RST01 HocSent:Monday, April 11, 2011 2:31 AMTo:RST08 Hoc; RST06 HocSubject:FW: IAEA distributed documentsAttachments:No81E-Parameter.pdf; No81E\_ConditionsF1NPS.pdf; No81E-Monitoring\_Data.pdf;<br/>No81\_info1600\_April8\_set.pdf; No80E-Condtions\_set.pdf; No80E-Monitoring\_Data.pdf;<br/>No80E-Parameter.pdf; No80\_info0800\_April8\_set.pdf; No78E-Parameter 3.pdf; No78E-<br/>Conditions 2.pdf; No78\_info0800\_April7\_English 1.pdf; No77E-Parameter\_<br/>1300April6.pdf; No77E-Conditions\_1300\_April6.pdf

From: LIA08 Hoc Sent: Monday, April 11, 2011 1:59 AM To: RST01 Hoc; RST07 Hoc; Hoc, PMT12; ET07 Hoc Subject: FW: IAEA distributed documents

For your info. New info from IAEA. Jeff Temple

From: LIA03 Hoc Sent: Monday, April 11, 2011 1:25 AM To: LIA08 Hoc; LIA02 Hoc; LIA10 Hoc Subject: FW: IAEA distributed documents

From: OST01 HOC Sent: Monday, April 11, 2011 1:24 AM To: LIA02 Hoc; LIA03 Hoc Subject: FW: IAEA distributed documents

From: HOO Hoc [mailto:HOO.Hoc@nrc.gov] Sent: Monday, April 11, 2011 12:58 AM To: LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC Subject: FW: IAEA distributed documents

Withers, Anne M; Lowe, Thomas J; Lewis, Brian M; SES-O\_OS; EAP-J-Office-DL; O'Brien, Thomas P; Lane, Charles D; Conlon, John N; Foughty, Michael A; Mahaffey, Charles T; (b)(6) Jih, Rongsong; (b)(6) Subject: RE: IAEA distributed documents Auto forwarded by a Rule

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April 8th, 2011

#### Fukushima Dai-ichi Monitoring points

North side of main office building (approx. 0.5km from Unit 2 in northwest direction)
 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)
 Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)
 Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westsouthwest direction)
 Front of Earthquake Isolation Building (approx. 0.5km from Unit 2 in northwest direction)
 South side of main office building
 Main Gate
 Monitoring Car TM: Transportable Monitoring post

| Monitoring points    |           |            |           |       |       |       |       |       |       |       |       | (     | 3)    |       |       |       |       |       | _     |       |       |       |       |       |
|----------------------|-----------|------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reading time         | 12:00     | 12:10      | 12:20     | 12:30 | 12:40 | 12:50 | 13:00 | 13:10 | 13:20 | 13:30 | 13:40 | 13:50 | 14:00 | 14:10 | 14:20 | 14:30 | 14:40 | 14:50 | 15:00 | 15:10 | 15:20 | 15:30 | 15:40 | 15:50 |
| MC Reading( µ Sv/h)  | 54.5      | 54.3       | 54.4      | 54.3  | 54.1  | 54.4  | 54.3  | 54.2  | 54.3  | 54.4  | 54.2  | 54.2  | 54.4  | 54.3  | 54.2  | 54.1  | 54.3  | 54.1  | 54.1  |       |       |       |       |       |
| neutron              | ND        | ND         | ND        | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |       |       |       |       |       |
| 6SMOB(μ Sv/h)*1      | 650       |            | -         | 651   | -     | -     | 649   | -     | _     | 647   | -     | -     | 648   | -     | -     | 648   | -     | -     | 645   |       |       |       |       |       |
| TM ⑦MG(μSv/h)*2      | 95        | -          | -         | 96    | -     | -     | 98    | -     | -     | 95    | ~-    | -     | 96    | -     | -     | 95    | -     | -     | 94    |       |       |       |       |       |
| ③WG(μ Sv/h)*3        | 41.0      | ~          | -         | 40.0  | -     | -     | 41.0  | -     | -     | 40.0  | ~     | -     | 40.0  | - 1   | -     | 40.0  | -     | -     | 40.0  |       |       |       |       |       |
| wind direction       | SE        | SE         | SE        | SSE   | SSE   | E     | SE    | SW    | NNW   | SW    | WNW   | NE    | S     | N     | N     | NW    | NNW   | N     | W     |       |       |       |       |       |
| wind speed (m/s)     | 2.1       | 1.5        | 2.0       | 2.1   | 1.5   | 1.7   | 1.6   | 1.2   | 1.3   | 0.9   | 1.1   | 1.1   | 1.4   | 1.2   | 1.1   | 1.2   | 0.8   | 1.2   | 0.9   |       |       |       |       |       |
| *1: SMOB : South Sid | le of Mai | n Office I | Building  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| *2: MG: Main Gate    |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| *3: WG:West Gate     |           |            |           |       |       |       | •     |       |       |       |       |       |       |       | ,     |       |       |       |       |       |       |       |       |       |
| *4: NM: Not measur   | red due   | to the m   | alfunctio | on    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Monitoring points    |           |            |           |       |       |       |       |       |       |       |       | (     | 3)    |       |       |       |       |       |       |       |       |       |       |       |
| Reading time         | 16:00     | 16:10      | 16:20     | 16:30 | 16:40 | 16:50 | 17:00 | 17:10 | 17:20 | 17:30 | 17:40 | 17:50 | 18:00 | 18:10 | 18:20 | 18:30 | 18:40 | 18:50 | 19:00 | 19:10 | 19:20 | 19:30 | 19:40 | 19:50 |
| MC Reading( µ Sv/h)  |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| neutron              |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 6SMOB(μSv/h)*1       |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TM (7)MG( µ Sv/h)*2  |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3WG(μSv/h)*3         |           |            | _         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| wind direction       |           |            |           |       |       |       | _     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| wind speed (m/s)     |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                      |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ····· |       |       |       | ····· |       |       |
| Monitoring points    |           |            |           |       |       |       |       |       |       |       |       | (3    |       |       |       |       |       |       |       |       | _     |       |       |       |
| Reading time         | 20:00     | 20:10      | 20:20     | 20:30 | 20:40 | 20:50 | 21:00 | 21:10 | 21:20 | 21:30 | 21:40 | 21:50 | 22:00 | 22:10 | 22:20 | 22:30 | 22:40 | 22:50 | 23:00 | 23:10 | 23:20 | 23:30 | 23:40 | 23:50 |
| Reading(#Sy/h)       |           |            |           |       |       |       |       |       |       |       |       |       | _     |       |       |       |       |       |       |       |       |       |       |       |
| MC neutron           |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| (6)SMOB( µ Sv/h)*1   |           |            |           |       |       |       | _     |       |       |       | _     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TM ⑦MG(μSv/h)*2      |           |            |           |       |       |       |       |       |       |       |       | . 1   |       |       |       |       |       |       |       |       |       |       |       |       |
| (3)WG(μSv/h)*3       |           |            | _         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| wind direction       |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| wind speed (m/s)     |           |            |           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                      |           |            |           |       | _     |       |       |       |       |       |       |       |       |       | _     |       |       |       |       |       |       |       |       |       |

| Monitoring Post (as of 1 | 5:00) |      |      |      | ЖChe | eck read | ings ond | e a day |  |
|--------------------------|-------|------|------|------|------|----------|----------|---------|--|
| Monitoring Poists        | MP-1  | MP-2 | MP-3 | MP-4 | MP-5 | MP-6     | MP-7     | MP-8    |  |
| Reading ( $\mu$ Sy/h)    | 14    | 45   | 45   | 45   | 89   | 130      | 270      | 220     |  |

%As for MP-1 and 2, readings were observed by human eyes (Coulc not be transmitted because of system trouble) %As for MP-3 to 8, readings were transmitted by system

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#### Fukushima Dai-ichi Monitoring points

(1) North side of main office building (approx. 0.5km from Unit 2 in northwest direction) 2 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction) ③ Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction) ④ Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westsouthwest direction) (5) Front of Earthquake Isolation Building (approx. 0.5km from Unit2 in northwest dirction) 6 South side of main office building (7) Main Gate MC: Monitoring Car TM: Transportable Monitoring post

|                         |           | _          |           |      |      |      |       |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------|-----------|------------|-----------|------|------|------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Monitoring points       | ·         |            |           |      |      |      |       |      |      |      |      | (3   | 3)    |       |       |       |       |       |       |       |       |       |       |       |
| Reading time            | 0:00      | 0:10       | 0:20      | 0:30 | 0:40 | 0:50 | 1:00  | 1:10 | 1:20 | 1:30 | 1:40 | 1:50 | 2:00  | 2:10  | 2:20  | 2:30  | 2:40  | 2:50  | 3:00  | 3:10  | 3:20  | 3:30  | 3:40  | 3:50  |
| MC Reading( µ Sv/h)     | 56.0      | 56.0       | 56.1      | 56.1 | 56.2 | 56.0 | 56.0  | 55.7 | 55.7 | 55.6 | 55.5 | 55.6 | 55.5  | 55.6  | 55.6  | 55.6  | 55.5  | 55.4  | 55.4  | 55.4  | 55.3  | 55.3  | 55.3  | 55.2  |
| neutron                 | ND        | ND         | ND        | ND   | ND   | ND   | ND    | ND   | ND   | ND   | ND   | ND   | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | NÐ    | ND    |
| 6SMOB(μSv/h)*1          | 681       | -          | -         | 683  | -    | -    | 685   |      | -    | 684  | -    | -    | 675   | - 1   | -     | 682   | -     | -     | 679   | -     | -     | 679   | -     | -     |
| TM ⑦MG(μSv/h)*2         | 99        | -          | -         | 97   |      | -    | 97    |      | -    | 98   | -    | -    | 97    | - 1   | -     | 98    | -     | -     | 97    | •     | -     | 97    | -     | -     |
| $3WG(\mu Sv/h)*3$       | 43.3      | -          | -         | 43.5 | -    | -    | 43.4  | 1    | -    | 43.1 |      | -    | 43.1  | -     | -     | 43.4  | -     | -     | 43.2  | -     | -     | 43.2  | -     | -     |
| wind direction          | WNW       | SW         | SSE       | W    | W    | W    | w     | WNW  | N    | N    | WNW  | W    | W     | N     | SE    | SSE   | SE    | SSE   | SSE   | SE    | SSE   | S     | W     | SE    |
| wind speed (m/s)        | 0.4       | 0.6        | 0.4       | 0.3  | 0.3  | 0.4  | 0.5   | 0.5  | 0.5  | 0.5  | 0.4  | 0.4  | 0.3   | 0.4   | 0.5   | 0.8   | 0.9   | 0.9   | 1.0   | 1.0   | 0.4   | 0.5   | 0.5   | 0.4   |
| *1: SMOB : South Sid    | de of Mai | n Office I | Building  |      |      |      |       |      |      |      | -    |      |       |       |       |       |       |       |       |       |       |       |       |       |
| *2: MG: Main Gate       |           |            |           |      |      |      |       |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| *3: WG:West Gate        |           |            |           |      |      |      |       |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| *4: NM: Not measu       | red due   | to the m   | nalfuncti | on   |      |      |       |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| Monitoring points       |           |            |           |      |      |      |       |      |      |      |      | (    | 3)    |       |       |       |       |       |       |       |       |       |       | _     |
| Reading time            | 4:00      | 4:10       | 4:20      | 4:30 | 4:40 | 4:50 | 5:00  | 5:10 | 5:20 | 5:30 | 5:40 | 5:50 | 6:.00 | 6:10  | 6:20  | 6:30  | 6:40  | 6:50  | 7:00  | 7:10  | 7:20  | 7:30  | 7:40  | 7:50  |
| MC Reading( $\mu$ Sv/h) | 55.2      | 55.2       | 55.3      | 55.3 | 55.3 | 55.1 | 55.2  | 55.2 | 55.1 | 55.1 | 55.1 | 55.1 | 55.1  | 55.0  | 55.0  | 55.1  | 55.1  | 55.1  | 55.0  | 55.1  | 55.0  | 55.0  | 55.1  | 54.9  |
| neutron                 | ND        | ND         | ND        | ND   | ND   | ND   | ND    | ND   | ND   | ND   | ND   | ND   | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| ⑥SMOB( μ Sv/h)*1        | 675       | -          | -         | 676  |      | -    | 676   | -    | -    | 677  |      |      | 677   | -     | -     | 676   | -     | -     | 676   | -     | -     | 676   | -     | -     |
| TM ⑦MG(μSv/h)*2         | 95        | -          |           | 97   | -    | ~    | 97    | -    |      | 96   | -    | -    | 97    | -     | -     | 97    |       | -     | 96    | _     | -     | 97    | -     | -     |
| (3)WG(μSv/h)*3          | 43.1      |            | -         | 43.1 |      | ~    | 42.8  |      |      | 43.0 |      |      | 42.9  | -     | -     | 43.0  | -     | -     | 43.0  | -     | -     | 43.0  | -     | -     |
| wind direction          | E         | W          | w         | W    | WNW  | W    | S     | SSE  | SE   | S    | SSE  | SE   | W     | SSW   | SE    | ESE   | SE    | ESE   | ESE   | ESE   | ESE   | E     | E     | E     |
| wind speed (m/s)        | 0.3       | 0.8        | 0.8       | 0.6  | 0.6  | 0.7  | 0.7   | 0.8  | 1.0  | 0.6  | 1.0  | 0.7  | 0.5   | 0.6   | 0.7   | 0.9   | 0.9   | 1.3   | 1.5   | 2.0   | 1.7   | 1.5   | 1.8   | 2.1   |
|                         |           |            |           |      |      |      |       |      |      |      | _    |      |       |       |       |       |       |       |       |       |       |       |       |       |
| Monitoring points       |           |            |           |      |      |      |       |      |      |      | -    | (3   |       |       |       |       |       |       |       |       |       |       |       |       |
| Reading time            | 8.00      | 8.10       | 8.20      | 8.30 | 8.40 | 8.50 | 9.001 | 9.10 | 9.20 | 9.30 | 9.40 | 9.50 | 10.00 | 10.10 | 10.20 | 10.30 | 10.40 | 10.50 | 11.00 | 11.10 | 11.20 | 11:30 | 11.40 | 11.50 |

| 11/10 | nitoring points  |      |      |      |      |      |      |      |      |      |        |      | 6    | y     |       |       |       |       |       |       |       |       | -     |       |       |
|-------|------------------|------|------|------|------|------|------|------|------|------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rea   | ading time       | 8:00 | 8:10 | 8:20 | 8:30 | 8:40 | 8:50 | 9:00 | 9:10 | 9:20 | 9:30   | 9:40 | 9:50 | 10:00 | 10:10 | 10:20 | 10:30 | 10:40 | 10:50 | 11:00 | 11:10 | 11:20 | 11:30 | 11:40 | 11:50 |
| I.v.  | Reading( µ Sv/h) | 54.8 | 54.9 | 54.8 | 55.0 | 54.8 | 54.7 | 54.8 | 55.0 | 54.8 | 54.8   | 54.8 | 55.0 | 54.7  | 54.7  | 54.6  | 54.5  | 54.6  | 54.5  | 54.6  | 54.5  | 54.5  | 54.5  | 54.4  | 54.4  |
|       | neutron          | ND     | ND   | ND   | ND    | ND    | ND    | ND    | ND    | ND    | _ND   | ND    | ND    | ND    | ND    | ND    |
|       | ⑥SMOB(µSv/h)*1   | 672  | -    |      | 673  | -    | -    | 669  | -    |      | 667    |      | -    | 664   | -     | -     | 660   | -     | -     | 657   | -     | -     | 654   | -     | -     |
| TM    | ⑦MG(μSv/h)*2     | 98   |      | -    | 97   | -    | -    | 96   |      | -    | 97     | -    | 1    | 95    | -     | -     | 95    | -     | -     | 96    | ~     |       | 95    | -     | -     |
|       | ③WG(μSv/h)*3     | 43.0 | -    |      | 43.0 | ~    | -    | 42.0 | -    | -    | 42.0 · | -    | -    | 42.0  | -     | -     | 42.0  | -     | -     | 41.0  | _     |       | 41.0  | -     | -     |
|       | wind direction   | _ESE | SSW  | ESE  | ESE  | ESE  | E    | ESE  | ESE  | SSE  | SSW    | SSW  | WSW  | SSW   | SW    | SW    | W     | S     | SE    |
|       | wind speed (m/s) | 1.3  | 1.1  | 1.6  | 1.8  | 2.1  | 2.1  | 2.1  | 1.6  | 1.4  | 1.3    | 1.5  | 1.2  | 1.5   | 1.3   | 1.1   | 1.4   | 1.2   | 1.6   | 2.0   | 2.3   | 2.2   | 2.1   | 2.3   | 2.3   |

(1) North side of main office building (approx. 0.5km from Unit 2 in northwest direction) 2 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction) (3) Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction) (4) Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westsouthwest direction) (5) Front of Earthquake Isolation Building (approx. 0.5km from Unit2 in northwest dirction) 6 South side of main office building (7) Main Gate MC: Monitoring Car TM: Transportable Monitoring post

| Mor  | itoring points       |          |           |           |       |       |       |       |       |       |       |       | (     | 3)     |       |       |       |       |       |       |       |       |        |       |       |
|------|----------------------|----------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| Rea  | ding time            | 12:00    | 12:10     | 12:20     | 12:30 | 12:40 | 12:50 | 13:00 | 13:10 | 13:20 | 13:30 | 13:40 | 13:50 | 14:00  | 14:10 | 14:20 | 14:30 | 14:40 | 14:50 | 15:00 | 15:10 | 15:20 | 15:30  | 15:40 | 15:50 |
| MC.  | Reading( $\mu$ Sv/h) | 58.0     | 57.9      | 57.8      | 57.9  | 57.8  | 57.7  | 57.7  | 57.6  | 57.7  | 57.6  | 57.6  | 57.7  | 57.6   | 57.7  | 57.6  | 57.5  | 57.4  | 57.6  | 57.4  | 57.5  | 57.3  | 57.3   | 57.3  | 57.3  |
|      | neutron              | ND       | ND        | ND        | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND    | ND    | ND    | NÐ    | ND    | ND    | ND    | ND    | ND     | ND    | ND    |
|      | 6SMOB( µ Sv/h)*1     | 679      | -         | -         | 672   | -     | -     | 677   | -     | -     | 679   | -     | -     | 677    | -     |       | 673   | -     | -     | 671   | -     | -     | 667    | -     |       |
| TΜ   | ⑦MG(μSv/h)*2         | NM *4    | NM *4     | NM *4     | NM *4 | NM *4 | NM *4 | NM *4 | NM *4 | NM *4 | NM *4 | NM *4 | NM *4 | NM .*4 | NM *4  | NM *4 | NM *4 |
|      | ③WG(μSv/h)*3         | 44.2     | -         | -         | 43.8  | -     | -     | 43.8  | -     | -     | 43.5  | -     | -     | 43.7   |       | -     | 43.4  | -     | -     | 43.0  | -     | ~     | : 42.9 | -     | _     |
| wi   | nd direction         | E        | SE        | NE        | SE    | Е     | £     | E     | E     | E     | Ē     | Ê     | ESE   | E      | E     | NE    | SE    | Ε     | SE    | E     | SE    | ESE   | E      | Ε     | Ε.    |
| wind | l speed (m/s)        | 1.8      | 1.8       | 2.3       | 2.2   | 1.8   | 1.6   | 1.6   | 1.5   | 1.6   | 2.1   | 2.2   | 2.1   | 1.9    | 1.8   | 1.8   | 1.6   | 1.5   | 1.9   | 1.5   | 2.6   | 2.6   | 2.9    | 2.0   | . 2.2 |
|      | *1: SMOB : South Sid | le of Ma | in Office | Building  |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |        |       |       |
|      | *2: MG: Main Gate    |          |           |           |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |        |       |       |
|      | *3: WG:West Gate     |          |           |           |       |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |        |       |       |
|      | *4: NM: Not measur   | red due  | to the n  | nalfuncti | on    |       |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |        |       |       |
| Mor  | nitoring points      |          |           |           |       | /     |       |       | _     |       |       |       | (     | 3)     |       |       |       |       |       |       |       |       |        |       |       |
| Rea  | ding time            | 16:00    | 16:10     | 16:20     | 16:30 | 16:40 | 16:50 | 17:00 | 17:10 | 17:20 | 17:30 | 17:40 | 17:50 | 18:00  | 18:10 | 18:20 | 18:30 | 18:40 | 18:50 | 19:00 | 19:10 | 19:20 | 19:30  | 19:40 | 19:50 |
| MC   | Reading( µ Sv/h)     | 57.1     | 57.2      | 57.1      | 57.1  | 57.1  | 57.1  | 56.8  | 57.0  | 56.9  | 56.7  | 56.9  | 56.8  | 56.8   | 56.9  | 56.8  | 56.8  | 56.7  | 56.7  | 56.6  | 56.8  | 56.7  | 56.7   | 56.7  | 56.7  |
| N/C  | neutron              | ND       | ND        | ND        | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND    | ND    |
|      | ⑥SMOB( µ Sv/h)*1     | 671      | - 1       | -         | 668   | -     | -     | 665   | -     | I     | 667   | -     | -     | 669    | -     | -     | 668   | -     | -     | 676   | -     | -     | 675    | -     | -     |
| ТМ   | ⑦MG(µSv/h)*2         | NM *4    | NM *4     | NM *4     | NM *4 | NM *4 | NM *4 | 101   | -     | -     | 98    | -     | -     | 99     | -     | -     | 100   | -     | -     | 101   | ~     | -     | 98     | - 1   |       |
|      | ③WG(μSv/h)*3         | 43.0     | -         | -         | 42.7  | -     | -     | 42.6  |       | -     | 42.6  | -     | -     | 42.3   |       | -     | 42.8  | -     | -     | 42.8  | -     | -     | 42.7   | -     |       |
|      | wind direction       | E        | ESE       | E         | E     | E     | SE    | E     | ESE   | W     | S     | E     | N     | E      | S     | SW    | S     | SW    | NW    | SSE   | S     | N     | WNW    | SSW   | SSW   |
|      | wind speed (m/s)     | 1.9      | 2.1       | 1.8       | 1.7   | 1.5   | 1.3   | 1.3   | 1.1   | 0.8   | 0.9   | 0.8   | 0.5   | 0.4    | 0.5   | 0.5   | 0.5   | 0.4   | 0.3   | 0.5   | 0.4   | 0.7   | 0.4    | 0.2   | 0.5   |
|      |                      |          |           |           |       |       | _     |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |        |       |       |
| Mor  | itoring points       |          |           |           |       |       |       |       |       |       |       |       | (     | 3)     |       |       |       |       |       |       |       |       |        |       |       |
| Rea  | ding time            | 20:00    | 20:10     | 20:20     | 20:30 | 20:40 | 20:50 | 21:00 | 21:10 | 21:20 | 21:30 | 21:40 | 21:50 | 22:00  | 22:10 | 22:20 | 22:30 | 22:40 | 22:50 | 23:00 | 23:10 | 23:20 | 23:30  | 23:40 | 23:50 |
|      | Reading( $\mu$ Sv/h) | 56.7     | 56.7      | 56.5      | 56.6  | 56.5  | 56.6  | 56.5  | 56.5  | 56.5  | 56.4  | 56.5  | 56.5  | 56.5   | 56.4  | 56.2  | 56.3  | 56.3  | 56.2  | 56.3  | 56.1  | 56.2  | 56.1   | 56.1  | 56.1  |
| мс   | neutron              | ND       | ND        | ND        | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND     | ND    | ND    |
|      | ⑥SMOB( # Sv/h)*1     | 674      | -         | -         | 678   | -     | -     | 679   | -     | -     | 680   | -     | -     | 684    | -     | -     | 683   | -     | -     | 685   | -     |       | 681    | -     | _     |
| тм   | (7)MG(μSv/h)*2       | 98       | -         | -         | 100   | 1     | -     | 100   | -     | -     | 99    | -     | -     | 98     | - ·   | -     | 99    | -     | -     | 99    | -     | _     | 98     | -     | -     |
|      | 3WG(μSv/h)*3         | 42.6     | -         | -         | 43.3  | -     | -     | 43.2  | 1     | -     | -43.0 | -     | -     | 43.0   |       | -     | 43.2  | -     | -     | 43.3  | -     | ~     | 43.2   | -     | -     |
|      | wind direction       | WNW      | SW        | WNW       | WNW   | NW    | ESE   | N     | WNW   | E     | SSW   | WSW   | WNW   | W      | WSW   | ESE   | S     | WSW   | SSW   | WNW   | W     | WSW   | W      | SW    | SSW   |

| Monitoring Post (as of 1 | 5:00) |      |      |      | ЖChe | eck read | ings onc | e a day |
|--------------------------|-------|------|------|------|------|----------|----------|---------|
| Monitoring Poists        | MP-1  | MP-2 | MP-3 | MP-4 | MP-5 | MP-6     | MP-7     | MP-8    |
| Reading ( $\mu$ Sv/h)    | 15    | 45   | 47   | 47   | 95   | 140      | 280      | 230     |

XAs for MP-1 and 2, readings were observed by human eyes (Coulc not be transmitted because of system trouble) to 8, readings were transmitted by system

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Fukushima Dai-ichi Monitoring points

| Nea | ung unie             | 20.00 | 20.10 | 20.20 | 20.00 | 20.40 | 20.00 | 21.00 | 21.10 | 21.20 | 21.30 | 21.40 | 21.00 | 22.00 | 22.10 | 22:20 | 22:30 | 22.40 | 22.00 | 23.00 | 23.10 | 23:20 | 23:30 | 23:40 | 23:50 |
|-----|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| мс  | Reading( $\mu$ Sv/h) | 56.7  | 56.7  | 56.5  | 56.6  | 56.5  | 56.6  | 56.5  | 56.5  | 56.5  | 56.4  | 56.5  | 56.5  | 56.5  | 56.4  | 56.2  | 56.3  | 56.3  | 56.2  | 56.3  | 56.1  | 56.2  | 56.1  | 56.1  | 56.1  |
| MC  | neutron              | ND    |
|     | ⑥SMOB( # Sv/h)*1     | 674   | -     | -     | 678   | -     | -     | 679   | -     | - 1   | 680   | -     | -     | 684   | -     | -     | 683   | -     | -     | 685   | -     | -     | 681   | -     | -     |
| ТΜ  | ⑦MG(μSv/h)*2         | 98    | -     | -     | 100   | -     | -     | 100   | -     | -     | 99    | -     | -     | 98    | - · · | -     | 99    | -     | -     | 99    | -     | -     | 98    | -     | -     |
|     | ③WG(μSv/h)*3         | 42.6  | -     | -     | 43.3  | -     | -     | 43.2  | -     | -     | 43.0  | -     | -     | 43.0  | -     | -     | 43.2  | -     | -     | 43.3  | -     | ~     | 43.2  | -     | -     |
|     | wind direction       | WNW   | SW    | WNW . | WNW   | NW    | ESE   | N     | WNW   | E     | SSW   | WSW   | WNW   | W     | WSW   | ESE . | S     | WSW   | SSW   | WNW   | W     | WSW   | W     | SW    | SSW   |
|     | wind speed (m/s)     | 0.6   | 0.6   | 0.8   | 0.7   | 0.3   | 0.5   | 0.3   | 0.4   | 0.4   | 0.4   | 0.3   | 0.4   | 0.4   | 0.4   | 0.5   | 0.5   | 0.3   | 0.4   | 0.5   | 0.4   | 0.4   | 0.5   | 0.6   | 0.5   |
|     |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|     |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

| -o | XAS for MP-1 and 2, readings were observed by h   |
|----|---------------------------------------------------|
| 30 | XAs for MP−3 to 8, readings were transmitted by a |

(1) North side of main office building (approx. 0.5km from Unit 2 in northwest direction) 2 Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction) ③ Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction) (4) Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westsouthwest direction) (5) Front of Earthquake Isolation Building (approx. 0.5km from Unit2 in northwest dirction) 6 South side of main office building (7) Main Gate

MC: Monitoring Car TM: Transportable Monitoring post

| Monitoring points               |       |      |      |        |      |      |       |      |      |       |      | (    | 3) .  |      |      |       |      |      |       |      |      |       |      |      |
|---------------------------------|-------|------|------|--------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| Reading time                    | 0:00  | 0:10 | 0:20 | 0:30   | 0:40 | 0:50 | 1:00  | 1:10 | 1:20 | 1:30  | 1:40 | 1:50 | 2:00  | 2:10 | 2:20 | 2:30  | 2:40 | 2:50 | 3:00  | 3:10 | 3:20 | 3.30  | 3:40 | 3:50 |
| MC Reading( µ Sv/h)             | 59.4  | 59.4 | 59.3 | 59.4   | 59.3 | 59.5 | 61.3  | 59.9 | 59.7 | 59.6  | 59.3 | 59.3 | 59.3  | 59.2 | 59.3 | 59.2  | 59.2 | 59.2 | 59.0  | 59.0 | 58.7 | 59.2  | 59.2 | 59.5 |
| neutron                         | ND    | ND   | ND   | ND     | ND   | ND   | ND    | ND   | ND   | ND    | ND   | ND   | ND    | ND   | ND   | ND    | ND   | ND   | ND    | ND   | ND   | ND    | ND   | ND   |
| 6SMOB( μ Sv/h)*1                | 713   | -    | 1    | 716    | - 1  | -    | 709   | _    | -    | 712   | -    | -    | 710   | -    | -    | 709   | -    | -    | 712   | -    | -    | 708   | -    | -    |
| TM $\bigcirc$ MG( $\mu$ Sv/h)*2 | NM *4 | - 1  | -    | NM *4  | -    | -    | NM *4 | -    | ١.   | NM *4 | -    | -    | NM *4 | -    | *-   | NM *4 | -    | 1    | NM *4 | -    | -    | NM *4 | -    | ~    |
| ③WG(μ Sv/h)*3                   | 46.6  | -    | -    | 46.7 · | -    | -    | 48.0  | -    | ł    | 46.8  | -    | -    | 46.7  | ~    | -    | 46.6  | -    | 1    | 46.8  | -    | -    | 46.9  |      | -    |
| wind direction                  | NE    | w    | SE   | WNW    | E    | W    | W     | W    | SE   | WNW   | W    | NW   | WSW   | WNW  | WNW  | Ň     | NNW  | NW   | NE    | SW   | W    | W     | NNW  | E    |
| wind speed (m/s)                | 0.3   | 0.4  | 0.2  | 0.3    | 0.6  | 0.3  | 0.3   | 0.3  | 0.4  | 0.7   | 0.6  | 0.6  | 0.6   | 0.6  | 0.4  | 0.6   | 0.7  | 0.8  | 0.6   | 0.4  | 0.6  | 0.5   | 0.4  | 0.3  |

\*1: SMOB : South Side of Main Office Building

\*2: MG: Main Gate

\*3: WG:West Gate

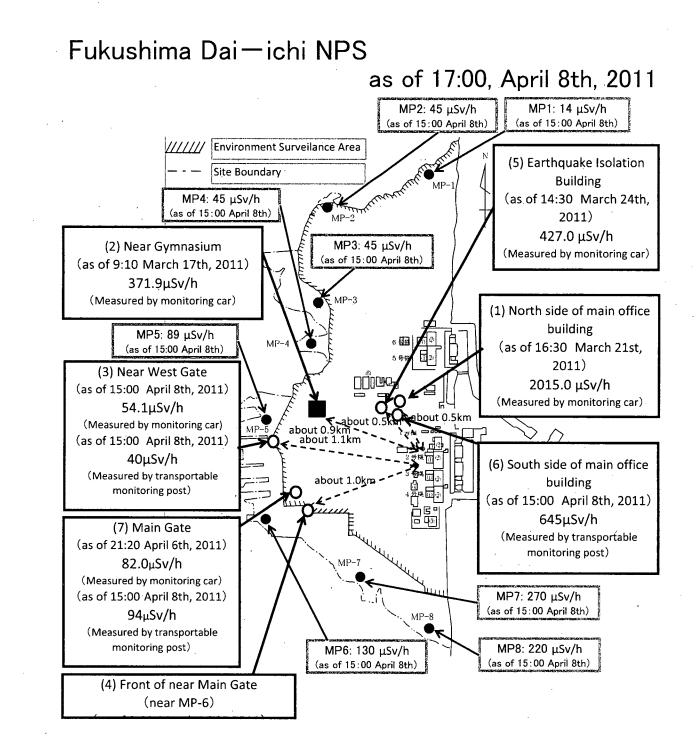
\*4: NM: Not measured due to the malfunction

| Мо    | nitoring points     |       |      |      |       |      |      |       |      |      |       |      | (3                | )     |      |      |       |      |      |       |      |      |       |      |      |
|-------|---------------------|-------|------|------|-------|------|------|-------|------|------|-------|------|-------------------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| Rea   | ading time          | 4:00  | 4:10 | 4:20 | 4:30  | 4:40 | 4:50 | 5:00  | 5:10 | 5:20 | 5:30  | 5:40 | 5:50              | 6:.00 | 6:10 | 6:20 | 6:30  | 6:40 | 6:50 | 7:00  | 7:10 | 7:20 | 7:30  | 7:40 | 7:50 |
| мс    | Reading(µSv/h)      | 59.4  | 59.7 | 60.1 | 60.5  | 59.2 | 59.5 | 60.6  | 60.1 | 58.8 | 58.6  | 58.6 | 58.5 <sup>.</sup> | 58.5  | 58.5 | 58.5 | 58.4  | 58.6 | 58.6 | 58.5  | 58.5 | 58.4 | 58.6  | 58.4 | 58.4 |
| I'''C | neutron             | ND    | ND   | ND                | ND    | ND   | ND   | ND    | ND   | ND   | ND    | ND   | ND   | ND    | ND   | ND   |
|       | 6SMOB( µ Sv/h)*1    | 708   | -    |      | 712   | -    | ~    | 711   | -    | -    | 708   | -    | -                 | 709   | -    | -    | 708   | -    | -    | 706   | -    | -    | 709   | -    | -    |
| TM    | ⑦MG(μ Sv/h)*2       | NM *4 | -    | -                 | NM *4 | -    | 1    | NM *4 | -    | 1    | NM *4 | -    | -    | NM *4 | -    | -    |
|       | $(3)WG(\mu Sv/h)*3$ | 47.0  | -    | -    | 47.9  | -    | -    | 48.0  |      |      | 46.4  | -    | -                 | 46.5  | -    | -    | 46.7  |      | -    | 46.4  | -    | -    | 46.2  | -    | -    |
|       | wind direction      | SSE   | WNW  | . W  | SE    | NE   | N    | NNE   | W    | W    | W     | SW   | W                 | W     | SW   | W    | W     | WSW  | SW   | W     | WSW  | SW   | SW    | SE   | ESE  |
|       | wind speed (m/s)    | 0.5   | 0.4  | 0.2  | 0.6   | 0.4  | 0.4  | 0.3   | 0.5  | 0.5  | 0.6   | 0.4  | 0.7               | 0.8   | 0.6  | 0.5  | 0.5   | 0.5  | 0.2  | 0.4   | 0.4  | 0.4  | 0.5   | 0.7  | 0.8  |

| M    | onitoring points     |       |       |       | _     |       |       |       |       |       |       |       | (     | 3)    |       |       |       |       |       |       |       |       |       |       |       |
|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Re   | eading time          | 8:00  | 8:10  | 8:20  | 8:30  | 8:40  | 8:50  | 9:00  | 9:10  | 9:20  | 9:30  | 9:40  | 9:50  | 10:00 | 10:10 | 10:20 | 10:30 | 10:40 | 10:50 | 11:00 | 11:10 | 11:20 | 11:30 | 11:40 | 11:50 |
|      | Reading( $\mu$ Sv/h) | 58.5  | 58.5  | 58.4  | 58.5  | 58.4  | 58.4  | 58.4  | 58.4  | 58.3  | 58.3  | 58.3  | 58.2  | 58.2  | 58.2  | 58.2  | 58.2  | 58.0  | 58.2  | 58.0  | 58.1  | 58.0  | 58.0  | 57.9  | 57.9  |
| 1.00 | neutron              | ND    |
|      | 6SMOB( µ Sv/h)*1     | 710   |       | 1     | 706   | -     | -     | 700   | -     | -     | 698   | -     | -     | 692   | 1     | -     | 689   |       | -     | 685   | -     | -     | 684   | -     | -     |
| 11   |                      | NM *4 |
|      | ③WG(μ Sv/h)*3        | 46.4  |       | 1     | 45.8  | -     | -     | 45.8  | ~     | -     | 45.3  | -     | -     | 45.3  | -     | -     | 44.8  | 1     | -     | 44.7  |       | -     | 44.3  | -     | -     |
|      | wind direction       | S     | SE    | SSE   | ESE   | E     | ε     | SE    | SE    | SSE   | E     | SE    | SE    | ESE   | SE    | E     | SE    | E     | E     | E     | SE    | SE    | E     | Ę     | E     |
|      | wind speed (m/s)     | 1.0   | 1.0   | 0.7   | 1.2   | 1.4   | 1.1   | 0.9   | 1.0   | 1.1   | 1.1   | 1.1   | 1.6   | 2.1   | 1.5   | 1.3   | 1.3   | 1.7   | 1.7   | 1.4   | 1.3   | 1.4   | 1.9   | 1.9   | 2.0   |

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Fukushima Dai-ichi Monitoring points



. April 8, 2011

| . Apin of worth                                                                                                  |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------------------------------------------------------------------------|----------|---------|---------|---------|-------|-------|---------|---------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| monitoring point                                                                                                 | 12:00    | 12:10   | 12:20   | 12:30   | 12:40 | 12:50 | . 13:00 | 13:10   | 13:20 | _13:30 | 13:40 | 13:50 | 14:00 | 14:10 | 14:20 | 14:30 | 14:40 | 14:50 | 15:00 | 15:10 | 15:20 | 15:30 | 15:40 | 15:50 |
| MP1( $\mu$ Sv/h)                                                                                                 | 3.656    | 3.650   | 3.651   | 3.653   | 3.644 | 3.623 | 3.648   | 3.618   | 3.614 | 3.618  | 3.618 | 3.629 | 3.629 | 3.612 | 3.593 | 3.595 | 3.587 | 3.608 | 3.590 |       |       |       |       |       |
| $MP2(\mu Sv/h)$                                                                                                  | 2.679    | 2.678   | 2.671   | 2.672   | 2.667 | 2.663 | 2.673   | 2.658   | 2.672 | 2.657  | 2.664 | 2.664 | 2.664 | 2.648 | 2.657 | 2.651 | 2.646 | 2.653 | 2.658 |       |       |       |       |       |
| MP3( $\mu$ Sv/h)                                                                                                 | 3.892    | 3.900   | 3.913   | 3.900   | 3.885 | 3.906 | 3.901   | 3.898   | 3.901 | 3.899  | 3.891 | 3.875 | 3.875 | 3.894 | 3.870 | 3.882 | 3.873 | 3.864 | 3.856 |       |       |       |       |       |
| $MP4(\mu Sv/h)$                                                                                                  | 3.026    | 3.019   | 3.027   | 3.007   | 3.005 | 3.014 | 2.998   | 2.996   | 2.996 | 3.002  | 3.003 | 2.990 | 2.965 | 2.974 | 2.962 | 2.985 | 2.969 | 2.962 | 2.968 |       |       |       |       |       |
| MP5( $\mu$ Sv/h)                                                                                                 | 2.945    | 2.922   | 2.920   | 2.920   | 2.926 | 2.929 | 2.915   | 2.918   | 2.917 | 2.916  | 2.908 | 2.907 | 2.899 | 2.898 | 2.900 | 2.905 | 2.909 | 2.895 | 2.904 |       |       |       |       |       |
| MP6( $\mu$ Sv/h)                                                                                                 | 2.924    | 2.932   | 2.932   | 2.909   | 2.917 | 2.920 | 2.911   | 2.904   | 2.908 | 2.899  | 2.918 | 2.903 | 2.895 | 2.911 | 2.899 | 2.899 | 2.885 | 2.886 | 2.882 |       |       |       |       |       |
| $MP7(\mu Sv/h)$                                                                                                  | 2.070    | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1   | NM *1   | NM *1 | NM *1  | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |       |       |       |       |       |
| wind direction                                                                                                   | S        | S       | S       | S       | S     | S     | SSW     | SSW     | SSW   | SSW    | SSW   | S     | SSW   |       |       |       |       |       |
| wind speed (m/s)                                                                                                 | 13.5     | 15.5    | 13.0    | 13.4    | 14.6  | 14.0  | 12.8    | 10.8    | 9.6   | 9.8    | 10.5  | 11.9  | 8.8   | 6.9   | 4.7   | 5.5   | 3.1   | 4.7   | 2.7   |       |       |       |       |       |
| *1: NM: Not meas                                                                                                 | sured du | e to th | e malfu | Inction |       |       | -       |         | -     |        |       |       |       |       |       |       |       |       |       |       | _     |       |       |       |
| April 8, 2011                                                                                                    |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point                                                                                                 | 16:00    | 16:10   | 16:20   | 16:30   | 16:40 | 16:50 | 17:00   | 17:10   | 17:20 | 17:30  | 17:40 | 17:50 | 18:00 | 18:10 | 18:20 | 18:30 | 18:40 | 18:50 | 19:00 | 19:10 | 19:20 | 19:30 | 19:40 | 19:50 |
| MP1( $\mu$ Sv/h)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| $MP2(\mu Sv/h)$                                                                                                  |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP3( $\mu$ Sv/h)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP4( $\mu$ Sv/h)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP5( $\mu$ Sv/h)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP6(µSv/h)                                                                                                       |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP7( $\mu$ Sv/h)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| wind direction                                                                                                   |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| wind speed (m/s)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                                                                                                  | -        |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| April 8, 2011                                                                                                    |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point                                                                                                 | 20:00    | 20:10   | 20:20   | 20:30   | 20:40 | 20:50 | 21:00   | · 21:10 | 21:20 | 21:30  | 21:40 | 21:50 | 22:00 | 22:10 | 22:20 | 22:30 | 22:40 | 22:50 | 23:00 | 23:10 | 23:20 | 23:30 | 23:40 | 23:50 |
| MP1( $\mu$ Sv/h)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| $MP2(\mu Sv/h)$                                                                                                  |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP3( $\mu$ Sv/h)                                                                                                 |          |         |         |         | -     |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP4( $\mu$ Sv/h)                                                                                                 |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MP5(µSv/h)                                                                                                       |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1175(                                                                                                            |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| $MP6(\mu Sv/h)$                                                                                                  |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| $\frac{MP6(\mu Sv/h)}{MP7(\mu Sv/h)}$                                                                            |          |         |         |         |       |       |         |         |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| and the second |          |         |         |         |       |       |         | · · · · |       |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

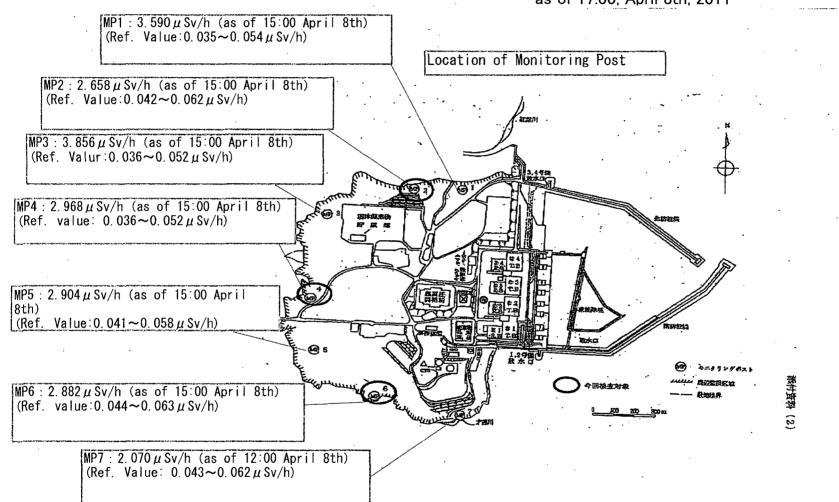
| April 8, 2011    | L        |         |         |         |       |       |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|----------|---------|---------|---------|-------|-------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| monitoring point | 0:00     | 0:10    | 0:20    | 0:30    | 0:40  | 0:50  | 1:00  | 1:10             | 1:20  | 1:30  | 1:40  | 1:50  | 2:00  | 2:10  | 2:20  | 2:30  | 2:40  | 2:50  | 3:00  | 3:10  | 3:20  | 3:30  | 3:40  | 3:50  |
| MP1( $\mu$ Sv/h) | 3.690    | 3.683   | 3.675   | 3.695   | 3.685 | 3.686 | 3.680 | 3.676            | 3.684 | 3.684 | 3.672 | 3.680 | 3.675 | 3.669 | 3.681 | 3.657 | 3.663 | 3.669 | 3.668 | 3.677 | 3.665 | 3.661 | 3.668 | 3.656 |
| MP2( $\mu$ Sv/h) | 2.701    | 2.689   | 2.692   | 2.689   | 2.694 | 2.684 | 2.681 | 2.688            | 2.677 | 2.687 | 2.682 | 2.679 | 2.678 | 2.670 | 2.693 | 2.685 | 2.687 | 2.688 | 2.687 | 2.688 | 2.688 | 2.674 | 2.682 | 2.680 |
| MP3( $\mu$ Sv/h) | 3.966    | 3.980   | 3.976   | 3.976   | 3.964 | 3.961 | 3.959 | 3.977            | 3.962 | 3.974 | 3.955 | 3.951 | 3.958 | 3.947 | 3.944 | 3.947 | 3.948 | 3.950 | 3.961 | 3.940 | 3.957 | 3.953 | 3.946 | 3.936 |
| MP4( $\mu$ Sv/h) | 3.017    | 3.030   | 3.020   | 3.021   | 3.016 | 3.020 | 3.013 | 3.010            | 3.017 | 3.018 | 3.013 | 2.999 | 3.013 | 3.022 | 3.020 | 3.026 | 3.006 | 3.008 | 3.016 | 3.009 | 3.010 | 3.007 | 3.011 | 3.010 |
| MP5( $\mu$ Sv/h) | 2.979    | 2.971   | 2.979   | 2.982   | 2.965 | 2.986 | 2.962 | 2.963            | 2.973 | 2.967 | 2.974 | 2.974 | 2.957 | 2.961 | 2.954 | 2.950 | 2.958 | 2.968 | 2.968 | 2.952 | 2.965 | 2.965 | 2.957 | 2.943 |
| MP6( $\mu$ Sv/h) | 2.959    | 2.956   | 2.961   | 2.948   | 2.966 | 2.948 | 2.956 | 2.951            | 2.959 | 2.948 | 2.949 | 2.945 | 2.940 | 2.947 | 2.944 | 2.948 | 2.939 | 2.943 | 2.943 | 2.957 | 2.942 | 2.947 | 2.947 | 2.940 |
| MP7( $\mu$ Sv/h) | NM *1    | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1            | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | SSW      | SSW     | SSW     | SW      | SSW   | SW    | SSW   | SSW              | SW    | SW    | SW    | WSW   | WSW   | SW    | SSW   |
| wind speed (m/s) | 8.0      | 6.6     | 5.1     | 4.4     | 6.9   | 8.6   | 7.1   | 6.5              | 6.7   | 6.0   | 5.1   | 5.2   | 5.3   | 5.2   | 6.3   | 7.6   | 8.9   | 6.5   | 8.3   | 8.0   | 8.4   | 7.9   | 5.0   | 6.1   |
| *1: NM: Not meas | sured du | e to th | e malfı | unction |       |       |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| April 8, 2011    |          |         |         |         |       |       |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point | 4:00     | 4:10    |         | 4:30    | 4:40  |       | 5:00  |                  |       | 5:30  | 5:40  | 5:50  | 6:00  | 6:10  | 6:20  | 6:30  | 6:40  | 6:50  | 7:00  | 7:10  | 7:20  | 7:30  | 7:40  | 7:50  |
| MP1( $\mu$ Sv/h) | 3.670    | 3.659   | 3.667   | 3.653   | 3.648 | 3.653 | 3.658 | 3.657            | 3.661 | 3.661 | 3.657 | 3.658 | 3.654 | 3.665 | 3.656 | 3.653 | 3.655 | 3.658 | 3.643 | 3.646 | 3.658 | 3.650 | 3.636 | 3.649 |
| MP2( $\mu$ Sv/h) | 2.685    | 2.691   | 2.689   | 2.676   | 2.681 | 2.678 | 2.670 | 2.660            | 2.675 | 2.688 | 2.672 | 2.669 | 2.680 | 2.677 | 2.678 | 2.673 | 2.669 | 2.683 | 2.679 | 2.674 | 2.677 | 2.683 | 2.672 | 2.669 |
| MP3( $\mu$ Sv/h) | 3.946    | 3.947   | 3.929   | 3.942   | 3.951 | 3.931 | 3.950 | 3.934            | 3.927 | 3.954 | 3.935 | 3.919 | 3.934 | 3.935 | 3.939 | 3.916 | 3.924 | 3.927 | 3.914 | 3.944 | 3.925 | 3.919 | 3.922 | 3.915 |
| $MP4(\mu Sv/h)$  | 2.994    | 3.013   | 2.999   | 3.002   | 3.001 | 2.992 | 3.000 | 3.002            | 2.996 | 2.991 | 2.993 | 3.005 | 2.979 | 3.000 | 2.988 | 2.999 | 2.987 | 3.001 | 2.999 | 2.995 | 2.988 | 2.997 | 2.992 | 2.991 |
| MP5( $\mu$ Sv/h) | 2.952    | 2.958   | 2.936   | 2.969   | 2.951 | 2.949 | 2.935 | 2.935            | 2.945 | 2.950 | 2.951 | 2.947 | 2.947 | 2.944 | 2.952 | 2.944 | 2.934 | 2.941 | 2.948 | 2.929 | 2.932 | 2.934 | 2.931 | 2.938 |
| MP6( $\mu$ Sv/h) | 2.946    | 2.936   | 2.920   | 2.941   | 2.934 | 2.943 | 2.935 | 2.931            | 2.924 | 2.931 | 2.935 | 2.931 | 2.920 | 2.942 | 2.930 | 2.928 | 2.929 | 2.923 | 2.928 | 2.929 | 2.922 | 2.937 | 2.935 | 2.925 |
| MP7(μSv/h)       | NM *1    | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1            | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | SSW      | SSW     | SSW     | SSW     | SSW   | s     | SSW   | SSW              | SSW   | SSW   | SSW   | S     | S     | S     | S     | S     | S     | S     | S     | S     | SSE   | S     | S     | SSE   |
| wind speed (m/s) | 6.6      | 6.7     | 7.9     | 8.8     | 8.4   | 8.0   | . 5.8 | 4.6              | 3.8   | 4.6   | 4.1   | 4.3   | 4.4   | 4.1   | 3.8   | 5.6   | 8.2   | 10.1  | 5.5   | 1.4   | 3.3   | 7.3   | 4.1   | 3.5   |
|                  |          |         |         |         |       |       |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| April 8, 2011    |          |         |         |         |       |       |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point | 8:00     | 8:10    | 8:20    | 8:30    | 8:40  | 8:50  | 9:00  | <del>9</del> :10 | 9:20  | 9:30  | 9:40  | 9:50  | 10:00 | 10:10 | 10:20 | 10:30 | 10:40 | 10:50 | 11:00 | 11:10 | 11:20 | 11:30 | 11:40 | 11:50 |
| MP1( $\mu$ Sv/h) | 3.644    | 3.652   | 3.629   | 3.640   | 3.645 | 3.639 | 3.649 | 3.621            | 3.627 | 3.645 | 3.653 | 3.625 | 3.633 | 3.651 | 3.640 | 3.644 | 3.630 | 3.641 | 3.665 | 3.635 | 3.663 | 3.651 | 3.633 | 3.640 |
| MP2( $\mu$ Sv/h) | 2.668    | 2.662   | 2.673   | 2.684   | 2.670 | 2.679 | 2.683 | 2.687            | 2.685 | 2.676 | 2.675 | 2.694 | 2.679 | 2.672 | 2.643 | 2.667 | 2.682 | 2.676 | 2.677 | 2.696 | 2.682 | 2.677 | 2.675 | 2.671 |
| MP3( $\mu$ Sv/h) | 3.920    | 3.908   | 3.917   | 3.937   | 3.914 | 3.912 | 3.917 | 3.909            | 3.902 | 3.906 | 3.916 | 3.908 | 3.909 | 3.918 | 3.910 | 3.909 | 3.902 | 3.903 | 3.909 | 3.909 | 3.894 | 3.910 | 3.912 | 3.899 |
| MP4( $\mu$ Sv/h) | 2.997    | 2.985   | 2.973   | 2.977   | 2.997 | 2.998 | 2.994 | 2.987            | 2.998 | 2.986 | 2.994 | 2.986 | 2.987 | 3.004 | 3.008 | 2.996 | 3.019 | 3.002 | 2.997 | 3.013 | 3.020 | 3.011 | 3.038 | 3.029 |
| MP5( $\mu$ Sv/h) | 2.936    | 2.925   | 2.932   | 2.939   | 2.929 | 2.934 | 2.925 | 2.930            | 2.950 | 2.920 | 2.940 | 2.940 | 2.929 | 2.935 | 2.920 | 2.958 | 2.856 | 2.954 | 2.929 | 2.957 | 2.944 | 2.943 | 2.925 | 2.931 |
| MP6( $\mu$ Sv/h) | 2.923    | 2.935   | 2.923   | 2.917   | 2.922 | 2.937 | 2.936 | 2.934            | 2.918 | 2.934 | 2.846 | 2.917 | 2.930 | 2.928 | 2.913 | 2.926 | 2.916 | 2.919 | 2.936 | 2.925 | 2.916 | 2.939 | 2.928 | 2.933 |
| MP7( $\mu$ Sv/h) | NM *1    | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1            | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | S        | S       | SSE     | S       | S     | S     | S     | S                | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     |
| wind speed (m/s) | 7.0      | 6.6     | 7.0     | 7.9     | 8.5   | 8.4   | 8.8   | 10.6             | 12.3  | 10.2  | 9.0   | 9.4   | 9.2   | 8.2   | 7.6   | 6.0   | 9.5   | 12.6  | 12.8  | 15.2  | 15.9  | 15.7  | 14.6  | 13.5  |
|                  |          |         |         | -       |       |       |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

April 7, 2011

| 7421117, 2011    |          |         |         |         |       |       |       |       |       |       |       | •     |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|----------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| monitoring point | 12:00    | 12:10   | 12:20   | 12:30   | 12:40 | 12:50 | 13:00 | 13:10 | 13:20 | 13:30 | 13:40 | 13:50 | 14:00 | 14:10 | 14:20 | 14:30 | 14:40 | 14:50 | 15:00 | 15:10 | 15:20 | 15:30 | 15:40 | 15:50 |
| MP1( $\mu$ Sv/h) | 3.821    | 3.795   | 3.789   | 3.775   | 3.785 | 3.780 | 3.793 | 3.780 | 3.775 | 3.788 | 3.810 | 3.781 | 3.794 | 3.797 | 3.785 | 3.776 | 3.785 | 3.771 | 3.785 | 3.770 | 3.765 | 3.763 | 3.742 | 3.741 |
| MP2( $\mu$ Sv/h) | 2.781    | 2.781   | 2.783   | 2.784   | 2.784 | 2.782 | 2.778 | 2.776 | 2.779 | 2.780 | 2.782 | 2.778 | 2.784 | 2.783 | 2.780 | 2.772 | 2.794 | 2.771 | 2.780 | 2.769 | 2.766 | 2.769 | 2.765 | 2.760 |
| MP3( $\mu$ Sv/h) | 4.079    | 4.085   | 4.080   | 4.072   | 4.091 | 4.079 | 4.060 | 4.057 | 4.079 | 4.071 | 4.063 | 4.076 | 4.079 | 4.079 | 4.077 | 4.069 | 4.068 | 4.074 | 4.089 | 4.063 | 4.072 | 4.080 | 4.050 | 4.051 |
| MP4( $\mu$ Sv/h) | 3.106    | 3.106   | 3.099   | 3.094   | 3.105 | 3.097 | 3.096 | 3.097 | 3.112 | 3.105 | 3.105 | 3.112 | 3.120 | 3.126 | 3.114 | 3.111 | 3.107 | 3.102 | 3.094 | 3.103 | 3.107 | 3.098 | 3.112 | 3.106 |
| MP5( $\mu$ Sv/h) | 3.065    | 3.073   | 3.056   | 3.040   | 3.074 | 3.056 | 3.047 | 3.071 | 3.068 | 3.040 | 3.043 | 3.047 | 3.042 | 3.052 | 3.047 | 3.034 | 3.036 | 3.014 | 3.018 | 3.032 | 3.022 | 3.035 | 3.019 | 3.031 |
| MP6( $\mu$ Sv/h) | 3.045    | 3.062   | 3.047   | 3.049   | 3.036 | 3.034 | 3.029 | 3.064 | 3.061 | 3.042 | 3.044 | 3.047 | 3.049 | 3.066 | 3.056 | 3.062 | 3.050 | 3.044 | 3.051 | 3.056 | 3.037 | 3.022 | 3.035 | 3.030 |
| MP7( $\mu$ Sv/h) | 2.210    | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | S        | S       | S       | S       | S     | S     | SSW   | SSW   | S     | S     | S     | S     | s     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | SSE   |
| wind speed (m/s) | 9.5      | 10.4    | 8.4     | 9.2     | 9.0   | 9.4   | 8.3   | 8.1   | 6.6   | 7.5   | 7.3   | 4.1   | 6.1   | 6.8   | 8.2   | 8.8   | 8.8   | 9.3   | 9.7   | 10.1  | 10.3  | 9.7   | 9.9   | 9.3   |
| *1: NM: Not meas | sured du | e to th | e malfu | Inction |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| April 7, 2011    |          |         |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point | 16:00    | 16:10   | 16:20   | 16:30   | 16:40 | 16:50 | 17:00 | 17:10 | 17:20 | 17:30 | 17:40 | 17:50 | 18:00 | 18:10 | 18:20 | 18:30 | 18:40 | 18:50 | 19:00 | 19:10 | 19:20 | 19:30 | 19:40 | 19:50 |
| MP1(μSv/h)       | 3.745    | 3.740   | 3.708   | 3.716   | 3.724 | 3.710 | 3.719 | 3.722 | 3.702 | 3.700 | 3.712 | 3.717 | 3.712 | 3.722 | 3.707 | 3.714 | 3.722 | 3.707 | 3.716 | 3.719 | 3.701 | 3.716 | 3.720 | 3.710 |
| MP2( $\mu$ Sv/h) | 2.754    | 2.749   | 2.754   | 2.732   | 2.723 | 2.747 | 2.736 | 2.721 | 2.730 | 2.730 | 2.718 | 2.701 | 2.710 | 2.725 | 2.717 | 2.715 | 2.719 | 2.713 | 2.725 | 2.713 | 2.716 | 2.730 | 2.707 | 2.729 |
| MP3(µSv/h)       | 4.043    | 4.054   | 4.025   | 4.029   | 4.052 | 4.019 | 4.028 | 4.021 | 4.018 | 4.020 | 4.041 | 3.991 | 4.016 | 4.013 | 4.008 | 4.008 | 4.007 | 4.018 | 4.003 | 4.002 | 4.009 | 4.004 | 4.015 | 4.018 |
| MP4( $\mu$ Sv/h) | 3.098    | 3.089   | 3.083   | 3.078   | 3.057 | 3.065 | 3.030 | 3.040 | 3.047 | 3.037 | 3.042 | 3.060 | 3.048 | 3.039 | 3.045 | 3.040 | 3.047 | 3.043 | 3.047 | 3.041 | 3.039 | 3.052 | 3.044 | 3.037 |
| MP5( $\mu$ Sv/h) | 3.034    | 3.010   | 3.022   | 3.017   | 3.016 | 2.996 | 3.008 | 3.013 | 3.018 | 2.985 | 3.003 | 2.993 | 2.988 | 2.985 | 2.999 | 2.998 | 2.984 | 2.976 | 2.987 | 2.989 | 2.987 | 2.991 | 2.977 | 2.976 |
| MP6( $\mu$ Sv/h) | 3.047    | 3.039   | 3.042   | 3.024   | 3.018 | 3.011 | 3.018 | 3.007 | 2.993 | 2.991 | 3.007 | 2.963 | 2.985 | 2.986 | 2.950 | 2.968 | 2.965 | 2.969 | 2.980 | 2.973 | 2.962 | 2.960 | 2.961 | 2.970 |
| MP7(μSv/h)       | NM *1    | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | S        | S       | S       | S       | SSE   | SSE   | SSE   | S     | SSE   | S     | S     | S     | SSW   | SW    | WSW   |
| wind speed (m/s) | 11.0     | 10.9    | 11.1    | 10.3    | 6.9   | 8.0   | 8.5   | 9.0   | 8.6   | 8.9   | 8.1   | 8.0   | 9.0   | 7.7   | 5.7   | 5.4   | 7.4   | 6.3   | 5.6   | 3.5   | 3.2   | 3.8   | 3.6   | 4.2   |
|                  |          |         |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| April 7, 2011    |          |         |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point | 20:00    | 20:10   | 20:20   | 20:30   | 20:40 | 20:50 | 21:00 | 21:10 | 21:20 | 21:30 | 21:40 | 21:50 | 22:00 | 22:10 | 22:20 | 22:30 | 22:40 | 22:50 | 23:00 | 23:10 | 23:20 | 23:30 | 23:40 | 23:50 |
| MP1(µSv/h)       | 3.699    | 3.719   | 3.707   | 3.717   | 3.706 | 3.718 | 3.703 | 3.716 | 3.715 | 3.706 | 3.697 | 3.704 | 3.695 | 3.707 | 3.701 | 3.699 | 3.685 | 3.702 | 3.702 | 3.692 | 3.693 | 3.699 | 3.699 | 3.684 |
| MP2( $\mu$ Sv/h) | 2.713    | 2.714   | 2.713   | 2.711   | 2.702 | 2.712 | 2.719 | 2.716 | 2.711 | 2.729 | 2.706 | 2.702 | 2.703 | 2.710 | 2.706 | 2.708 | 2.700 | 2.698 | 2.701 | 2.692 | 2.693 | 2.697 | 2.688 | 2.705 |
| MP3(µSv/h)       | 4.005    | 4.015   | 3.979   | 4.007   | 4.011 | 4.008 | 4.007 | 4.006 | 3.995 | 3.990 | 3.990 | 3.987 | 4.004 | 4.000 | 3.994 | 3.975 | 4.003 | 3.977 | 3.975 | 3.987 | 3.990 | 3.987 | 3.980 | 3.978 |
| MP4( $\mu$ Sv/h) | 3.043    | 3.037   | 3.043   | 3.044   | 3.044 | 3.037 | 3.043 | 3.026 | 3.047 | 3.037 | 3.033 | 3.041 | 3.036 | 3.037 | 3.041 | 3.018 | 3.021 | 3.016 | 3.022 | 3.034 | 3.040 | 3.013 | 3.021 | 3.028 |
| MP5(μSv/h)       | 2.992    | 2.979   | 2.985   | 2.987   | 2.989 | 3.008 | 2.991 | 2.994 | 2.983 | 2.995 | 2.972 | 2.990 | 2.976 | 2.978 | 2.982 | 2.975 | 2.976 | 2.975 | 2.977 | 2.982 | 2.963 | 2.978 | 2.980 | 2.962 |
| MP6( $\mu$ Sv/h) | 2.964    | 2.954   | 2.964   | 2.966   | 2.972 | 2.967 | 2.972 | 2.973 | 2.969 | 2.966 | 2.949 | 2.974 | 2.955 | 2.959 | 2.971 | 2.951 | 2.958 | 2.955 | 2.962 | 2.954 | 2.959 | 2.965 | 2.959 | 2.962 |
| MP7(μSv/h)       | NM *1    | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
|                  | WSW      | W       | W       | W       | WSW   | WSW   | SW    | SSW   | SSW   | SW    | SW    | S     | SSW   |
| wind direction   |          |         |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

| April 7, 2011    |         |         |         |         |       |       |       |       | _     | -     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|---------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| monitoring point | 0:00    | 0:10    | 0:20    | 0:30    | 0:40  | 0:50  | 1:00  | 1:10  | 1:20  | 1:30  | 1:40  | 1:50  | 2:00  | 2:10  | 2:20  | 2:30  | 2:40  | 2:50  | 3:00  | 3:10  | 3:20  | 3:30  | 3:40  | 3:50  |
| MP1(μSv/h)       | 3.852   | 3.862   | 3.863   | 3.850   | 3.863 | 3.845 | 3.851 | 3.389 | 3.855 | 3.849 | 3.837 | 3.850 | 3.840 | 3.834 | 3.842 | 3.836 | 3.846 | 3.835 | 3.841 | 3.827 | 3.824 | 3.843 | 3.836 | 3.847 |
| $MP2(\mu Sv/h)$  | 2.831   | 2.815   | 2.799   | 2.808   | 2.802 | 2.815 | 2.808 | 2.807 | 2.800 | 2.804 | 2.799 | 2.810 | 2.809 | 2.821 | 2.810 | 2.806 | 2.798 | 2.802 | 2.798 | 2.793 | 2.787 | 2.804 | 2.804 | 2.809 |
| MP3(μSv/h)       | 4.172   | 4.157   | 4.160   | 4.175   | 4.152 | 4.155 | 4.144 | 4.158 | 4.146 | 4.158 | 4.144 | 4.168 | 4.157 | 4.146 | 4.149 | 4.151 | 4.135 | 4.137 | 4.146 | 4.120 | 4.125 | 4.144 | 4.134 | 4.128 |
| MP4( $\mu$ Sv/h) | 3.171   | 3.161   | 3.162   | 3.144   | 3.143 | 3.153 | 3.155 | 3.154 | 3.145 | 3.153 | 3.166 | 3.138 | 3.146 | 3.154 | 3.156 | 3.160 | 3.151 | 3.142 | 3.142 | 3.145 | 3.139 | 3.133 | 3.151 | 3.135 |
| MP5(μSv/h)       | 3.108   | 3.110   | 3.099   | 3.107   | 3.096 | 3.103 | 3.097 | 3.104 | 3.107 | 3.093 | 3.093 | 3.082 | 3.099 | 3.092 | 3.090 | 3.074 | 3.083 | 3.081 | 3.076 | 3.089 | 3.082 | 3.079 | 3.095 | 3.070 |
| MP6(µSv/h)       | 3.078   | 3.103   | 3.085   | 3.086   | 3.091 | 3.086 | 3.074 | 3.083 | 3.102 | 3.088 | 3.077 | 3.085 | 3.077 | 3.085 | 3.078 | 3.082 | 3.088 | 3.069 | 3.080 | 3.079 | 3.073 | 3.069 | 3.067 | 3.072 |
| MP7(μSv/h)       | NM *1   | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | SSW     | SSW     | SSW     | SSW     | SW    | SW    | SW    | SW    | SSW   | SSW   | SSW   | SW    | SW    | SSW   | SW    | SSW   | SW    | SW    | SW    | SSW   | SSW   | SSW   | SSW   | SSW   |
| wind speed (m/s) | 6.0     | 5.5     | 6.3     | 6.8     | 6.9   | 6.0   | 7.1   | 6.5   | 6.0   | 5.2   | 4.1   | 4.8   | 4.8   | 3.4   | 2.5   | 0.4   | 1.9   | 4:0   | 4.4   | 5.0   | 3.3   | 3.3   | 1.8   | 2.0   |
| *1: NM: Not meas | ured du | e to th | e malfu | inction |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| April 7, 2011    |         |         |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point | 4:00    | 4:10    | 4:20    | 4:30    | 4:40  | 4:50  | 5:00  | 5:10  | 5:20  | 5:30  | 5:40  | 5:50  | 6:00  | 6:10  | 6:20  | 6:30  | 6:40  | 6:50  | 7:00  | 7:10  | 7:20  | 7:30  | 7:40  | 7:50  |
| $MP1(\mu Sv/h)$  | 3.843   | 3.843   | 3.845   | 3.828   | 3.842 | 3.827 | 3.834 | 3.831 | 3.821 | 3.824 | 3.825 | 3.822 | 3.819 | 3.812 | 3.818 | 3.811 | 3.813 | 3.801 | 3.824 | 3.824 | 3.814 | 3.805 | 3.821 | 3.819 |
| MP2(μSv/h)       | 2.822   | 2.807   | 2.809   | 2.798   | 2,795 | 2.812 | 2.799 | 2.793 | 2.796 | 2.795 | 2.789 | 2.779 | 2.776 | 2.789 | 2.803 | 2.790 | 2.791 | 2.787 | 2.791 | 2.777 | 2.775 | 2.793 | 2.787 | 2.782 |
| MP3(μSv/h)       | 4.134   | 4.146   | 4.137   | 4.122   | 4.131 | 4.136 | 4.120 | 4.125 | 4.115 | 4.135 | 4.122 | 4.112 | 4.119 | 4.110 | 4.117 | 4.120 | 4.122 | 4.106 | 4.104 | 4.112 | 4.107 | 4.114 | 4.103 | 4.112 |
| MP4( $\mu$ Sv/h) | 3.140   | 3.154   | 3.124   | 3.139   | 3.123 | 3.131 | 3.132 | 3.138 | 3.136 | 3.126 | 3.126 | 3.120 | 3.126 | 3.119 | 3.130 | 3.132 | 3.121 | 3.132 | 3.118 | 3.122 | 3.128 | 3.136 | 3.117 | 3.136 |
| MP5( $\mu$ Sv/h) | 3.091   | 3.076   | 3.086   | 3.079   | 3.076 | 3.065 | 3.083 | 3.070 | 3.067 | 3.065 | 3.065 | 3.068 | 3.073 | 3.071 | 3.054 | 3.064 | 3.066 | 3.077 | 3.066 | 3.060 | 3.075 | 3.071 | 3.074 | 3.061 |
| MP6( $\mu$ Sv/h) | 3.089   | 3.082   | 3.070   | 3.083   | 3.081 | 3.078 | 3.075 | 3.090 | 3.063 | 3.062 | 3.069 | 3.072 | 3.069 | 3.065 | 3.070 | 3.068 | 3.065 | 3.068 | 3.068 | 3.700 | 3.068 | 3.063 | 3.067 | 3.053 |
| MP7(μSv/h)       | NM *1   | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | SSW     | S       | SSW     | SSW     | SSW   | S     | SSW   | SSW   | S     | S     | S     | SSW   | SSW   | S     | S     | SSW   | SSW   | SSW   | S     | S     | SSW   | SSW   | SSW   | S     |
| wind speed (m/s) | 3.0     | 2.5     | 2.7     | 3.5     | 4.1   | 4.7   | 5.3   | 3.8   | 3.3   | 3.7   | 2.5   | 3.0   | 3.3   | 2.3   | 2.7   | 4.1   | 3.1   | 2.4   | 2.8   | 2.2   | 3.9   | 3.2   | 3.7   | 1.4   |
|                  |         |         |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| April 7, 2011    |         |         |         |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| monitoring point | 8:00    | 8:10    | 8:20    | 8:30    | 8:40  | 8:50  | 9:00  | 9:10  | 9:20  | 9:30  | 9:40  | 9:50  | 10:00 | 10:10 | 10:20 | 10:30 | 10:40 | 10:50 | 11:00 | 11:10 | 11:20 | 11:30 | 11:40 | 11:50 |
| MP1(μSv/h)       | 3.811   | 3.810   | 3.810   | 3.830   | 3.811 | 3.812 | 3.798 | 3.792 | 3.818 | 3.811 | 3.799 | 3.811 | 3.795 | 3.804 | 3.796 | 3.800 | 3.809 | 3.808 | 3.812 | 3.795 | 3.807 | 3.809 | 3.787 | 3.788 |
| MP2(μSv/h)       | 2.792   | 2.781   | 2.784   | 2.810   | 2.795 | 2.807 | 2.793 | 2.775 | 2.797 | 2.784 | 2.787 | 2.789 | 2.792 | 2.792 | 2.780 | 2.780 | 2.794 | 2.779 | 2.788 | 2.774 | 2.791 | 2.797 | 2.795 | 2.791 |
| MP3(µSv/h)       | 4.115   | 4.112   | 4.110   | 4.122   | 4.110 | 4.106 | 4.110 | 4.102 | 4.117 | 4.114 | 4.102 | 4.098 | 4.115 | 4.099 | 4.099 | 4.085 | 4.089 | 4.089 | 4.103 | 4.088 | 4.089 | 4.092 | 4.089 | 4.082 |
| MP4( $\mu$ Sv/h) | 3.113   | 3.127   | 3.139   | 3.125   | 3.118 | 3.122 | 3.125 | 3.112 | 3.120 | 3.128 | 3.127 | 3.134 | 3.120 | 3.125 | 3.140 | 3.109 | 3.117 | 3.114 | 3.097 | 3.120 | 3.119 | 3.118 | 3.126 | 3.114 |
| MP5( $\mu$ Sv/h) | 3.060   | 3.056   | 3.062   | 3.066   | 3.045 | 3.067 | 3.060 | 3.058 | 3.071 | 3.071 | 3.043 | 3.058 | 3.067 | 3.053 | 3.071 | 3.051 | 3.078 | 3.066 | 3.069 | 3.069 | 3.062 | 3.069 | 3.065 | 3.071 |
| MP6(μSv/h)       | 3.070   | 3.062   | 3.055   | 3.057   | 3.064 | 3.052 | 3.075 | 3.057 | 3.066 | 3.048 | 3.052 | 3.069 | 3.067 | 3.054 | 3.055 | 3.071 | 3.067 | 3.048 | 3.050 | 3.051 | 3.052 | 3.068 | 3.053 | 3.065 |
| MP7(μSv/h)       | NM *1   | NM *1   | NM *1   | NM *1   | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 | NM *1 |
| wind direction   | S       | SSE     | S       | SSW     | SSW   | SSW   | S     | SSW   | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     | S     |
| wind speed (m/s) | 1.6     | 1.1     | 3.9     | 4.7     | 4.5   | 4.2   | 4.4   | 5.0   | 3.3   | 4.3   | 6.5   | 6.3   | 5.7   | 6.2   | 6.6   | 6.7   | 8.3   | 7.1   | 8.5   | 9.0   | 8.9   | 8.9   | 9.3   | 10.1  |
|                  | _       |         |         |         |       |       |       |       |       |       |       |       |       |       |       | _     |       |       |       |       |       |       |       | _     |

# Fukushima Dai-ni NPS



as of 17:00, April 8th, 2011

| Range of normal average value | Company                     | NPS                                   |       |       | _     |       |       | April 7 | 2011  |       |       |       |       |       |
|-------------------------------|-----------------------------|---------------------------------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
| Range of normal average value | Company                     | NF 3                                  | 12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 17:00   | 18:00 | 19:00 | 20:00 | 21:00 | 22:00 | 23:00 |
| 0.023~0.027                   | Hokkaido Electric Power Co. | Tomari NPS                            | 0.029 | 0.028 | 0.029 | 0.029 | 0.029 | 0.029   | 0.029 | 0.029 | 0.029 | 0.029 | 0.029 | 0.031 |
| 0.024~0.060                   | Tohoku Electric Power Co.   | Onagawa NPS                           | 0.38  | 0.38  | 0.37  | 0.37  | 0.37  | 0.37    | 0.37  | 0.37  | 0.37  | 0.37  | 0.37  | 0.37  |
| 0.012~0.060                   | Follow Electric Fower Co.   | Higashidori NPS                       | 0.017 | 0.018 | 0.018 | 0.017 | 0.018 | 0.018   | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.017 |
| 0.033~0.050                   |                             | Fukushima Dai-ichi <sup>※</sup>       | 58.0  | 57.7  | 57.6  | 57.4  | 57.1  | 56.8    | 56.8  | 56.6  | 56.7  | 56.5  | 56.5  | 56.3  |
| 0.036~0.052                   | Tokyo Electric Power Co.    | Fukushima Dai∽ni                      | 4.079 | 4.060 | 4.079 | 4.089 | 4.043 | 4.028   | 4.016 | 4.003 | 4.005 | 4.007 | 4.004 | 3.975 |
| 0.011~0.159                   | · .                         | Kashiwazaki kariwa NPS                | 0.066 | 0.066 | 0.066 | 0.065 | 0.066 | 0.066   | 0.066 | 0.065 | 0.067 | 0.067 | 0.067 | 0.066 |
| 0.036~0.053                   | Japan Atomic Power Co.      | Tokai Dai-ni NPS                      | 0.457 | 0.456 | 0.459 | 0.456 | 0.454 | 0.454   | 0.455 | 0.454 | 0.448 | 0.450 | 0.447 | 0.446 |
| 0.039~0.110                   | Japan Atomic Fower Co.      | Tsuruga NPS                           | NM *1 | 0.075   | 0.075 | 0.076 | 0.075 | 0.076 | 0.075 | 0.076 |
| 0.064~0.108                   | Chubu Electric Power Co     | Hamaoka NPS                           | 0.046 | 0.045 | 0.045 | 0.045 | 0.045 | 0.045   | 0.044 | 0.045 | 0.045 | 0.045 | 0.044 | 0.045 |
| 0.0207~0.132                  | Hokuriku Electric Power Co. | Shika NPS                             | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033   | 0.034 | 0.034 | 0.034 | 0.034 | 0.034 | 0.034 |
| 0.028~0.130                   | Chugoku Electric Power Co.  | Shimane NPS                           | 0.029 | 0.029 | 0.030 | 0.031 | 0.031 | 0.030   | 0.030 | 0.029 | 0.030 | 0.030 | 0.030 | 0.030 |
| 0.070~0.077                   |                             | Mihama NPS                            | 0.074 | 0.075 | 0.075 | 0.073 | 0.075 | 0.072   | 0.074 | 0.074 | 0.074 | 0.073 | 0.074 | 0.075 |
| 0.045~0.047                   | Kansai Electric Power Co.   | Takahama NPS                          | 0.043 | 0.043 | 0.043 | 0.042 | 0.042 | 0.042   | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 |
| 0.036~0.040                   |                             | Ooi NPS                               | 0.034 | 0.034 | 0.034 | 0.034 | 0.034 | 0.033   | 0.034 | 0.034 | 0.034 | 0.034 | 0.035 | 0.034 |
| 0.011~0.080                   | Shikoku Electeic Power Co.  | ikata NPS                             | 0.013 | 0.014 | 0.013 | 0.013 | 0.013 | 0.013   | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 |
| 0.023~0.087                   | Kyushu Electric Power Co.   | Genkai NPS                            | 0.026 | 0.027 | 0.026 | 0.026 | 0.027 | 0.026   | 0.026 | 0.025 | 0.026 | 0.026 | 0.027 | 0.032 |
| 0.034~0.120                   | Rydsha Llecult Fower Go.    | Sendai NPS                            | 0.037 | 0.036 | 0.038 | 0.038 | 0.037 | 0.038   | 0.038 | 0.037 | 0.039 | 0.035 | 0.036 | 0.037 |
| 0.009~0.069                   | Japan Nuclear Fuel Limited  | Japan Nuclear Fuel Reprocessing Plant | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017   | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 |
| 0.009~0.071                   | Sapan Nuclear Fuel Limited  | Japan Nuclear Fuel Plant Disposal     | 0.023 | 0.023 | 0.022 | 0.023 | 0.022 | 0.023   | 0.023 | 0.023 | 0.022 | 0.023 | 0.023 | 0.023 |

#### Results of environmental monitoring at each NPSs etc. (as of 9am April 8th, 2011)

unit: # Sv/h

X There could be a small deviation on the monitoring time and area because of the operational situation of Fukushima Dai-ichi NPS.

| Range of normal average value | Company                     | NPS                                   |       |       |       |       |       | April 8 | 2011  |       |       |       |       |       |
|-------------------------------|-----------------------------|---------------------------------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|
| Range of normal average value | Company                     | NF 3                                  | 0:00  | 1:00  | 2:00  | 3:00  | 4:00  | 5:00    | 6:00  | 7:00  | 8:00  | 9:00  | 10:00 | 11:00 |
| 0.023~0.027                   | Hokkaido Electric Power Co. | Tomari NPS                            | 0.030 | 0.030 | 0.029 | 0.029 | 0.029 | 0.032   | 0.033 | 0.034 | 0.036 | 0.038 |       |       |
| 0.024~0.060                   | Tohoku Electric Power Co.   | Onagawa NPS                           | 0.37  | 0.37  | 0.37  | 0.37  | 0.38  | 0.38    | 0.38  | 0.38  | 0.38  | 0.38  |       |       |
| 0.012~0.060                   | Turioka Electric Power Co.  | Higashidori NPS                       | NM *2 | 0.018   | 0.020 | 0.020 | 0.021 | 0.021 |       |       |
| 0.033~0.050                   |                             | Fukushima Dai-ichi <sup>*</sup>       | 56.0  | 56.0  | 55.5  | 55.4  | 55.2  | 55.2    | 55.1  | 55.0  | 54.8  | ·54.8 |       |       |
| 0.036~0.052                   |                             | Fukushima Dai-ni                      | 3.966 | 3.959 | 3.958 | 3.961 | 3.946 | 3.950   | 3.934 | 3.914 | 3.920 | 3.917 |       |       |
| 0.011~0.159                   |                             | Kashiwazaki kariwa NPS                | 0.065 | 0.066 | 0.066 | 0.066 | 0.067 | 0.066   | 0.067 | 0.066 | 0.066 | 0.067 |       |       |
| 0.036~0.053                   | Japan Atomic Power Co.      | Tokai Dai-ni NPS                      | 0.447 | 0.444 | 0.442 | 0.442 | 0.443 | 0.441   | 0.444 | 0.443 | 0.443 | 0.442 |       |       |
| 0.039~0.110                   | Japan Atomic Fower Co.      | Tsuruga NPS                           | 0.075 | 0.078 | 0.075 | 0.076 | 0.077 | 0.076   | 0.076 | 0.076 | 0.076 | 0.080 |       |       |
| 0.064~0.108                   | Chubu Electric Power Co.    | Hamaoka NPS                           | 0.044 | 0.045 | 0.045 | 0.045 | 0.045 | 0.045   | 0.045 | 0.045 | 0.044 | 0.044 |       |       |
| 0.0207~0.132                  | Hokuriku Electric Power Co. | Shika NPS                             | 0.034 | 0.033 | 0.034 | 0.034 | 0.034 | 0.034   | 0.034 | 0.033 | 0.033 | 0.036 |       |       |
| 0.028~0.130                   | Chugoku Electric Power Co.  | Shimane NPS                           | 0.031 | 0.031 | 0.030 | 0.030 | 0.033 | 0.033   | 0.032 | 0.032 | 0.033 | 0.034 |       |       |
| 0.070~0.077                   |                             | Mihama NPS                            | 0.073 | 0.073 | 0.075 | 0.074 | 0.073 | 0.074   | 0.074 | 0.074 | 0.073 | 0.076 |       |       |
| 0.045~0.047                   | Kansai Electric Power Co.   | Takahama NPS                          | 0.043 | 0.043 | 0.042 | 0.042 | 0.043 | 0.042   | 0.043 | 0.042 | 0.043 | 0.046 |       |       |
| 0.036~0.040                   |                             | Ooi NPS                               | 0.034 | 0.035 | 0.035 | 0.034 | 0.034 | 0.035   | 0.035 | 0.035 | 0.034 | 0.036 |       |       |
| 0.011~0.080                   | Shikoku Electeic Power Co.  | Ikata NPS                             | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014   | 0.013 | 0.017 | 0.018 | 0.016 |       |       |
| 0.023~0.087                   | Kyushu Electric Power Co.   | Genkai NPS                            | 0.032 | 0.027 | 0.031 | 0.030 | 0.029 | 0.028   | 0.030 | 0.033 | 0.035 | 0.032 |       |       |
| 0.034~0.120                   | Ryushu Electric Fower Co.   | Sendai NPS                            | 0.037 | 0.041 | 0.038 | 0.037 | 0.035 | 0.038   | 0.040 | 0.038 | 0.047 | 0.049 |       |       |
| 0.009~0.069                   | Japan Nuclear Fuel Limited  | Japan Nuclear Fuel Reprocessing Plant | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017   | 0.017 | 0.016 | 0.017 | 0.017 |       |       |
| 0.009~0.071                   | Japan Huclear Fuel Cimited  | Japan Nuclear Fuel Plant Disposal     | 0.023 | NM *2   | NM *2 | NM *2 | NM *2 | NM *2 |       |       |

X There could be a small deviation on the monitoring time and area because of the operational situation of Fukushima Dai-ichi NPS.

\*1: NM: Not measured because of inspection

\*2: NM: Not measured because of earthquake

From: Sent: To: Subject: Kozal, Jason Monday, April 11, 2011 9:05 AM Evans, Michele; LIA03 Hoc; LIA02 Hoc RE: USAID and NRC travel

Thank you Michele. I will let USAID know. When will we know the other two?

a talah kata kata ka

V/r,

Jason Kozal USNRC/NSIR/DPR/CB 301-415-6231

From: Evans, Michele Sent: Monday, April 11, 2011 9:03 AM To: Kozal, Jason; LIA03 Hoc; LIA02 Hoc Subject: RE: USAID and NRC travel

Jason,

Tim Lupold from NRR will be travelling to Japan. Target travel date is Thursday 4/14. He is one of the remaining three staff for this week.

a a the stand we have a constrained and a stand of the stand we have a stand of the stand of t

Michele

From: Kozal, Jason Sent: Sunday, April 10, 2011 5:56 PM To: Evans, Michele Subject: Re: USAID and NRC travel

Yes the sooner the better. We need their relevant info (on the Liaison team checklist) ASAP.

Sent from an NRC BlackBerry Jason W Kozal (b)(6)

From: Evans, Michele To: Kozal, Jason Sent: Sun Apr 10 17:34:45 2011 Subject: Re: USAID and NRC travel

Thanks. I may have 2 of the names by noon tomorrow and the 3rd later. Should we move the first 2 as soon as I have them instead of waiting for the 3rd?

Sent from an NRC Blackberry Michele Evans From: Kozal, Jason To: Evans, Michele; Virgilio, Martin; Dyer, Jim Cc: Marshall, Jane Sent: Sun Apr 10 17:02:16 2011 Subject: Re: USAID and NRC travel

Michele,

Sorry I missed this conversation. I was on the night shift last night and was asleep.

I have forwarded this request to USAID. I will call the Response Manager first thing in the morning to discuss our requirements.

Sent from an NRC BlackBerry Jason W Koza (b)(6)

From: Evans, Michele To: Virgilio, Martin; Dyer, Jim Cc: Kozal, Jason; Marshall, Jane Sent: Sun Apr 10 13:03:16 2011 Subject: Re: USAID and NRC travel

Jason,

They are all emergent.

Sent from an NRC Blackberry Michele Evans

From: Virgilio, Martin To: Evans, Michele; Dyer, Jim Cc: Kozal, Jason; Marshall, Jane Sent: Sun Apr 10 12:18:26 2011 Subject: RE: USAID and NRC travel

Michele

My preference would be to classify the 6 we know as "emergent" and have them all travel on Tuesday. The additional 3 (yet to be named) would travel on Friday.

We can talk if you would like today or tomorrow morning. I am in the process of closing down here in OWF and moving to the ops center.

.....

and a second second strategy distant land was well advected at

Marty

From: Evans, Michele Sent: Sunday, April 10, 2011 11:04 AM To: Virgilio, Martin; Dyer, Jim Cc: Kozal, Jason; Marshall, Jane Subject: FW: USAID and NRC travel

Marty,

We will need to discuss the implications of the information in this email. Chuck's team dips to about 7 people on Wednesday and 4 of those are supposed to leave on about April 17.

As you know we are planning to send 6 people on Tuesday, 4/12. USAIDs won't receive their names until Monday morning. I've asked Jason to tell me the downside of calling them "emergent" and having them travel on Tuesday. For example, it would not be ideal for them to have to take non direct flights, like what happened to one set of travelers.

Another option is to call 2 of them emergent and send them on Tuesday (Steve Reynolds and Carl Moore, both from RIII), the other 4 on Thursday or as soon as possible (maybe Wednesday). I still need to identify 3 more people, to get up to the 11 that Chuck requested. I hope to have those names by late Monday. So under this USAIDs scheme below those 3 would travel Friday 4/15.

Jim,

All of these people will be in Japan into the first week of May. So sounds like we will need to transition them to NRC travel mid trip. I assume that is not a problem?

. . . . . .

thanks Michele

From: Kozal, Jason
Sent: Sunday, April 10, 2011 2:25 AM
To: Evans, Michele
Cc: LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Marshall, Jane; Kowalczik, Jeffrey; Dudek, Michael; ET07 Hoc
Subject: USAID and NRC travel

Resent with a subject line Jason Kozal USNRC/NSIR jason.kozal@nrc.gov (b)(6)

From: Kozal, Jason
Sent: Sunday, April 10, 2011 2:22 AM
To: Evans, Michele
Cc: LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Marshall, Jane; Kowalczik, Jeffrey; Dudek, Michael; ET07 Hoc
Subject:

Michele,

USAID called me Friday evening to discuss what their capabilities will be from USAID HQ going forward.

They have drawn down their staffing to a Response Manager (<u>RMTPACTSU\_RM@ofda.gov</u>) and an Admin Coordinator (<u>RMTPACTSU\_AC@ofda.gov</u>) on dayshift Monday through Friday only. Due to this drawdown, the NRC no longer maintains a imbedded liaison at USAID. I will continue to act as the liaison with USAID in order to address and resolve any issues that come up between us.

Due to the draw down of resources at USAID the ability of the NRC to travel on short notice (1-2 days) will be impacted. In order to ensure our travelers can meet our required travel dates, USAID is requesting that we give them 4 days notice unless the travel is deemed to be emergent. This will allow the USAID Admin Coordinator time to create travel profiles for all of the travelers, submit country clearances, obtain visas (if this becomes necessary), and arrange and get approval for the travel. I saw that we have another wave of NRC travelers slated to travel on Tuesday the

12th. The USAID Admin Coordinator will not have visibility of these travelers until Monday morning. The 14th would probably be a more realistic target date for these travelers. I will send the names of the travelers to USAID tonight, and call Monday morning to discuss this with the USAID Response Manager to discuss this issue. I will need to know if we absolutely need these folks to travel on the 12th or if later in the week is OK.

The second question they had was about staffing in Japan. At what levels are we planning to maintain our staffing in Japan through the end of the month? This is when USAID is planning on ending their mission, and they are trying to plan out what the remainder of their HQ support is going to look like. I know this is a very flexible situation and they realize it as well. They just would like to know conceptually what the plan or vision is. From what I can tell the situation going forward is as follows:

1) We will maintain approximately 11 staff in Japan to support Ambassador Roos.

2) This will require a 4th wave of travelers next week (week of 4/11). based on this rotation we will need a 5th wave of travelers to go the last week of April (week of 4/25).

3)We will be maintaining this staffing level through the end of the USAID mission. At that time all personnel traveling into or to Japan will transition to NRC travel authority. When this time is identified the NRC and USAID will need a couple of days to ensure all travelers are transitioned to the NRC system.

I would like to communicate a plan to USAID so they have some visibility of what our intentions are. This communication would be provided with the caveat that it could change at any time. Additionally, if the situation were to degrade significantly USAID would ramp up their resources to support any additional efforts required.

4

Thank you for your time and your thoughts.

V/r,

Jason Kozal Federal Interagency Coordinator USNRC/NSIR jason.kozal@nrc.gov (b)(6) blackberry From: Sent: To: Subject: LIA02 Hoc Monday, April 11, 2011 11:43 AM LIA08 Hoc; LIA03 Hoc; LIA10 Hoc FW: Need e-mail and phone contact info for six travelers

From: Kozal, Jason Sent: Monday, April 11, 2011 11:43 AM To: LIA02 Hoc Subject: Fw: Need e-mail and phone contact info for six travelers

Sent from an NRC BlackBerry Jason W Kozaj (b)(6)

From: RMTPACTSU\_AC <RMTPACTSU\_AC@ofda.gov> To: Kozal, Jason Sent: Mon Apr 11 11:41:18 2011 Subject: Need e-mail and phone contact info for six travelers

Hi Jason,

Can you provide me with the e-mail addresses and a contact phone number for each of the six travelers as soon as possible.

Thanks.

Ron

From: Kozal, Jason [mailto:Jason.Kozal@nrc.gov] Sent: Monday, April 11, 2011 10:24 AM To: RMTPACTSU\_AC Subject: Re: URGENT: Information Required

Working on it. We have been trying to contact Carl this morning.

Sent from an NRC BlackBerry Jason W Kozal (b)(6)

From: RMTPACTSU\_AC <RMTPACTSU\_AC@ofda.gov> To: Kozal, Jason Sent: Mon Apr 11 10:20:12 2011 Subject: URGENT: Information Required

#### Hi Jason,

You aren't going to believe this but the forms that people are filling out don't have the Bank Name on them.

We need the name of the bank for the following:

Steve Garchow Steve Reynolds Anthony Huffert

We don't need the entire form redone, just the name of the bank so that can be sent to me by e-mail.

I have not received a form for Carl Moore.

We need this immediately, otherwise the TAs won't be ready for travel tomorrow.

I've attached an updated data collection document that does ask for the bank name for future reference. It includes a copy of the Security clearance verification form as well.

Ron

From: Sent: To: Subject: LIA02 Hoc Monday, April 11, 2011 12:41 PM LIA08 Hoc; LIA03 Hoc; LIA10 Hoc FW: URGENT: Information Required

From: Kozal, Jason Sent: Monday, April 11, 2011 12:41 PM To: LIA02 Hoc Subject: Fw: URGENT: Information Required

These were all personal passports correct.

Sent from an NRC BlackBerry Jason W Kozal (b)(6)

From: RMTPACTSU\_AC <RMTPACTSU\_AC@ofda.gov> To: Kozal, Jason Sent: Mon Apr 11 12:40:06 2011 Subject: RE: URGENT: Information Required

Hi Jason,

I have the passport numbers for each persona but not the type (tourist, official, diplomatic). Can someone get that information to me so I can complete the ECC.

Thanks.

Ron

From: Kozal, Jason [mailto:Jason.Kozal@nrc.gov] Sent: Monday, April 11, 2011 10:28 AM To: RMTPACTSU\_AC Subject: Re: URGENT: Information Required

Huffert - Energy Federal Credit Union Reynolds - PNC Bank Garchow - Wells Fargo Bank

Sent from an NRC BlackBerry Jason W Kozal, (b)(6)

From: RMTPACTSU\_AC <RMTPACTSU\_AC@ofda.gov> To: Kozal, Jason

000266

#### Sent: Mon Apr 11 10:20:12 2011 Subject: URGENT: Information Required

Hi Jason,

You aren't going to believe this but the forms that people are filling out don't have the Bank Name on them.

We need the name of the bank for the following:

Steve Garchow Steve Reynolds Anthony Huffert

We don't need the entire form redone, just the name of the bank so that can be sent to me by e-mail.

I have not received a form for Carl Moore.

We need this immediately, otherwise the TAs won't be ready for travel tomorrow.

I've attached an updated data collection document that does ask for the bank name for future reference. It includes a copy of the Security clearance verification form as well.

Ron

From: Sent: To: Subject: LIA02 Hoc Monday, April 11, 2011 2:12 PM LIA08 Hoc; LIA03 Hoc; LIA10 Hoc FW: Status of KI

.

From: Wittick, Brian Sent: Monday, April 11, 2011 2:12 PM To: LIA02 Hoc Subject: Re: Status of KI

I don't understand the question. Each person on the team was issued some, the embassy has a bunch, the military has truckloads, and the japanese have a ton. Since guidance says you shouldn't take it if over forty, most of the team has spare to donate to a worthy cause.

Sent from NRC BlackBerry Brian Wittick

From: LIA02 Hoc To: Emche, Danielle; Stahl, Eric; Wittick, Brian Sent: Mon Apr 11 13:45:31 2011 Subject: Status of KI

How much KI is over there.. do you think we need anymore.

Steve

From: Sent: To: Subject: LIA02 Hoc Monday, April 11, 2011 3:24 PM LIA08 Hoc; LIA03 Hoc; LIA10 Hoc FW: NRC travelers for 4/12

From: LIA03 Hoc Sent: Monday, April 11, 2011 3:24 PM To: LIA08 Hoc; LIA02 Hoc; LIA10 Hoc Subject: FW: NRC travelers for 4/12

From: Kozal, Jason Sent: Monday, April 11, 2011 3:24 PM To: Evans, Michele Cc: LIA02 Hoc; LIA03 Hoc Subject: NRC travelers for 4/12

Michele,

All 6 travelers for 4/12 have tickets and hotel accommodations in Tokyo. We have one of the names, Tim Lupold travelling on 4/14, for the remaining three and are just waiting on the other two individual's names. USAID will begin processing Tim and any others in the AM.

1

Respectfully,

Jason Kozal

Senior Emergency Response Coordinator-Federal Interagency Coordinator Office of Nuclear Security and Incident Response Division of Preparedness and Response Coordination Branch US Nuclear Regulatory Commission (O) 301-415-6231 (BB)

From: HOO Hoc <HOO.Hoc@nrc.gov> Sent: Tuesday, April 12, 2011 12:17 PM LIA07 Hoc; OST01 HOC; OST02 HOC; OST03 HOC To: Subject: FW: IAEA distributed documents Attachments: April12\_INES\_Fukushima\_Daiichi\_English.pdf; ENAC - Downloaded Message 6.txt; Results\_Compilation\_Emergency\_Response\_Governmental\_Decision\_and\_Recommenda tion\_Rev\_13\_8\_April.pdf; NISA\_News\_Release\_89 \_(Japanese)\_Plant\_Parameters\_and\_cond.pdf; NISA\_News\_Release\_89 \_(Japanese)\_Monitoring\_Data.pdf; 89\_NISA\_News\_Release\_Japanese\_.pdf; 88 \_NISA\_News\_Release\_Japanese\_.pdf; ENAC - Downloaded Message 5.txt; ENAC -Downloaded Message 4.txt; ENAC - Downloaded Message 3.txt; ENAC - Downloaded Message 2.txt -----From: Kenagy, W David[SMTP:KENAGYWD@STATE.GOV] Sent: Tuesday, April 12, 2011 12:13:28 PM To: Kenagy, W David; vince.mcclelland@nnsa.doe.gov; Rodriguez, Veronica; ann.heinrich@nnsa.doe.gov; HOO Hoc; HOO2 Hoc; Huffman, William; decair.sara@epamail.epa.gov; timothy.greten@dhs.gov; maria.marinissen@hhs.gov; (b)(6). doehgeoc@oem.doe.gov; hhs.soc@hhs.gov; james.kish@dhs.gov; HOO Hoc; Smith, Brooke; Zubarev, Jill E; Shaffer, Mark R; nitops@nnsa.doe.gov; Skypek, Thomas M; (b)(6); clark,ray@epamail.epa.gov; Stern, Warren; DeLaBarre, Robin; Burkart, Alex R; Metz, Patricia J; Fladeboe, Jan P; Withers, Anne M; Lowe, Thomas J; Lewis, Brian M; SES-O\_OS; EAP-J-Office-DL; O'Brien, Thomas P; Lane, Charles D; Conlon, John N; Foughty, Michael A; Mahaffey, Charles T; (b)(6) Jih, Rongsong; (b)(6) Cutler, Kirsten B Subject: RE: IAEA distributed documents

Auto forwarded by a Rule

ENAC - Downloaded MessageMESSAGE No. 1 To: IAEA(IEC) EMERCON ADVISORY

> BASIC INFORMATION

FORM Type:Standard Report Form (SRF) IAEA message number:IAEA/2011/3/1 Message Status:Verified by IAEA Cover note: Changed by IAEA:No Changes by IAEA:none Fax distribution list:none Name of duty manager:F. Baciu

#### 1.Reporting STATE: Japan

2.Is this an official Notification under the Early Notification Convention

of actual or potential international transboundary release that is or may

be of radiological significance for another State? No

3.Competent Authority:Ministry of Economy, Tel:+81-3-35011087 Fax:+81-3-35808640 Email:noda-tomoki@meti.go.jp URL: Contact person (official position):

4.Nature of Event
Installation type:BWR
Emergency class:
Other event:Earthquake
Event Characteristics
Elevated radiation levels:No
Release:
Contamination:No
Estimated number of hospitalized casualities:

5.Facility name/location:TOKAI Latitude (deg.dec):36.47N Longitude (deg.dec):140.61E

6.Date and time of occurrence:2011-04-12 05:07

7.Information valid at (UTC):2011-04-12 09:35

#### > SUPPLEMENTARY INFORMATION

8.Summary description of event:Around 14:07 (UTC 5:07) April 12th, 2011, Earthquake occurred at the inland of Miyagi Prefecture. All units of Onagawa Nuclear Power Station (NPS) (Tohoku Electric Power Company Inc.), Fukushima Dai-ichi NPS, Fukushima Daini NPS (Tokyo Electric Power Company Inc.) and Tohkai Dai-ni NPS (the Japan Atomic Power Company) have been shutdown since the 2011 Tohoku district off the Pacific Ocean Earthquake occurred on March 11th 2011.

9.Actions being taken:N/A

10.Media information: Media contact tel:+ Provisional INES Rating: Press release in attachment: URL of public web-site:

Final message:No

ENAC - Downloaded MessageMESSAGE No. 1 To: IAEA(IEC) EMERCON ADVISORY

> BASIC INFORMATION

FORM Type:Standard Report Form (SRF) IAEA message number:IAEA/2011/3/1 Message Status:Verified by IAEA Cover note: Changed by IAEA:No Changes by IAEA:none Fax distribution list:none Name of duty manager:F. Baciu

1.Reporting STATE: Japan

2.Is this an official Notification under the Early . Notification Convention

of actual or potential international transboundary release that is or may

be of radiological significance for another State? No

3.Competent Authority:Ministry of Economy, Tel:+81-3-35011087 Fax:+81-3-35808640 Email:noda-tomoki@meti.go.jp URL: Contact person (official position):

4.Nature of Event
 Installation type:BWR
 Emergency class:
 Other event:Earthquake
 Event Characteristics
 Elevated radiation levels:No
 Release:
 Contamination:No
 Estimated number of hospitalized casualities:

## 5.Facility name/location:FUKUSHIMA-DAINI Latitude (deg.dec):37.32N Longitude (deg.dec):141.03E

6.Date and time of occurrence:2011-04-12 05:07

7.Information valid at (UTC):2011-04-12 09:32

#### > SUPPLEMENTARY INFORMATION

9.Actions being taken:N/A

10.Media information: Media contact tel:+ Provisional INES Rating: Press release in attachment: URL of public web-site:

3

Further information web: Final message:No

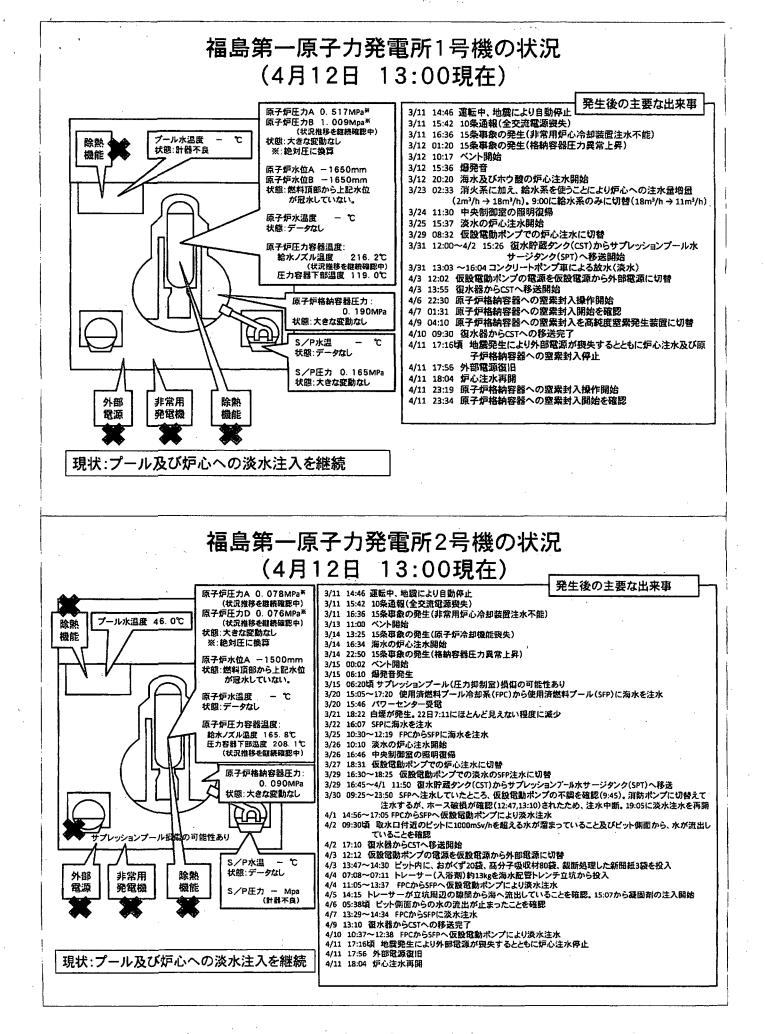
# 福島第一原子力発電所 プラント関連パラメータ

※1:計器不良 ※2:データ採取过象外 ※3:状況推移を継続確認中

4月12日 1300 現在

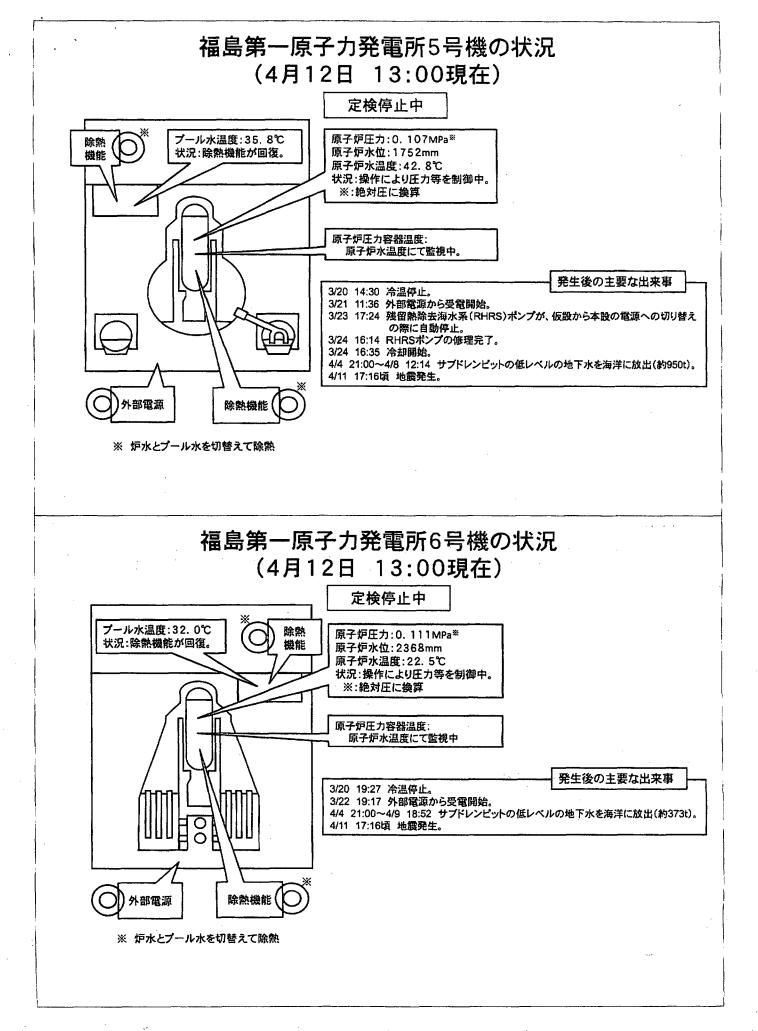
| 号機             | 1u                                                             | 2u                                                     | . 3u                                                      | 4u                            | 5u                                 | 6u                                 |
|----------------|----------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|-------------------------------|------------------------------------|------------------------------------|
| 违水状况           | 結水元2を用いた淡水注入中。<br>流量 6m³/n<br>(4/3 17:30) 仮設計器                 | 消火系が2を用いた淡水注入中。<br>流起 7m³/h<br>(4/71900) 仮設計器          | 消火系70を用いた淡水注入中。<br>流量 7m³/h<br>(4/3 17:32) 仮設計器           | 停止中                           | 停止中                                | 停止中                                |
| 原子炉水位          | 燃料域A:—1650mm<br>燃料域B:—1650mm<br>(4/12 600現在)                   | 悠彩域A:—1500mm<br>(4/12 600 現在)                          | 鄒料城A:—1850mm<br>鄒料城B:—2250mm<br>(4/12 1200現在)             | <b>※2</b>                     | 停止域<br>1752mm<br>(4/12 1300<br>現在) | 停止域<br>2368mm<br>(4/12 1300<br>現在) |
| 原子炉圧力          | 0.416MPag(A)<br>0.908MPag(B) ※3<br>(4/12 600現在)                | -0.023MPag(A) ※3<br>-0.025MPag(D) ※3<br>(4/12 600 現在)  | 0.017MPag (A) ※3<br>0.083MPag (C) ※3<br>(4/12 1200現在)     | ₩2                            | 0.006MPag<br>(4/12 13:00<br>現在)    | 0.010MPag<br>(4/12 13:00<br>現在)    |
| 原子炉水温度         |                                                                | (系統流量がないため採取不可)                                        |                                                           | ₩2                            | 42.8°C<br>(4/12 13:00<br>現在)       | 22.5℃<br>(4/12_13:00<br>現在)        |
| 原子炉圧力容器<br>温度  | 緒水灯 脇度:21620 ※3<br>圧力容器下部温度:119.00<br>(4/12_600 現在)            | 給水/X M溫度: 165.8℃<br>圧力容器下部温度 208.1℃※3<br>(4/12 600 現在) | 路水川。温度:98.9°、米3<br>圧力容器下部温度:115.9°C<br>(4/12,1200現在)      |                               | 発熱体(燃料)なし<br>、温度にて監視中              |                                    |
| D/W・S/C 臣力     | D/W 0.190MPa abs<br>S/C 0.165MPa abs<br>(4/12 600現在)           | D/W 0.090MPa abs<br>S/C ※1<br>(4/12 6:00 現在)           | D/W 0,1048MPa abs<br>S/C 0.1689MPa abs<br>(4/12:12:00 現在) | -                             | ₩2                                 |                                    |
| CAMS           | D/W 茶1<br>S/C 1.08×10'Sv/h<br>(4/12 600現在)                     | D/W 281×10'Sv/h<br>S/C 681×10'Sv/h<br>(4/12 600 現在)    | D/W 1.73×10'Sv/h<br>S/C 6.68×10'Sv/h<br>(4/12 1200現在)     |                               | ₩2                                 | · . ·                              |
| DAW電影使用压力      | 0,384MPag (0.485MPa abs)                                       | 0.384MPa 610.465MPa abs)                               | 0,384MPa g (0,485MPa aba)                                 |                               | <b>※2</b>                          | •                                  |
| D/W 最高使用任力     | 0.427MPa g (0.528MPa ados)                                     | 0.427MPa g (0.528MPa abs)                              | 0.427MPa g (0.528MPa abs)                                 |                               |                                    |                                    |
| 使用済燃料プール<br>温度 | <b>涨1</b>                                                      | 460℃<br>(4/12 600現在)                                   | <b>※1</b>                                                 | ×1                            | 35.8C<br>(4/12 1300<br>現在)         | 32.0℃<br>(4/12 13:00<br>現在)        |
| FPC            | 4500mm<br>(4/12 600 現在)                                        | 6550mm<br>(4/12 600 現在)                                | ※1                                                        | 4700mm<br>(4/12<br>1200 現在)   | *                                  | 2                                  |
| <b>\$</b> 9    | 外部電源受電中(P/C2C)                                                 |                                                        | 外部電源受電中(P/C4D)                                            |                               | 外部電源受留中                            |                                    |
| その他情報          | <ul> <li>・ 2、3号撥 原子炉圧力の指す</li> <li>・ 2 号機 原子炉圧力容器下部</li> </ul> | 示値が「ー」のため、伏況推移を継<br>温度について、伏況推移を穆統確語                   | 節確罰中 (※3)。<br>仲 (※1 から※3へ変更)。                             | 共用ブール:<br>32で理度<br>(4/12 640) | 5u:非熟モード<br>(4/ <u>12</u> 934~)    | 6u∶SHC モード<br>(4/11 1013~)         |

圧力換算 グージ圧のPag) = 絶対圧(MPagba) - 大気圧(部準大気圧 0.1018 MPa) 絶対圧(MPagba) = ゲージ圧(MPag) + 大気圧(部準大気圧 0.1018 MPa)



그는 그는 그는 그는 그는 것은 것은 것을 알려야 할 수요? 그는 것은 것을 가장에 가지 않는 것을 수요? 이 것을 가지 않는 것을 수요?





# **News** Release



April 12, 2011

INES (the International Nuclear and Radiological Event Scale) Rating on the Events in Fukushima Dai-ichi Nuclear Power Station by the Tohoku District - off the Pacific Ocean Earthquake

The Rating of the International Nuclear and Radiological Event Scale (INES) on the events in Fukushima Dai-ichi Nuclear Power Station (NPS), Tokyo Electric Power Co. Inc. (TEPCO), caused by the Tohoku District - off the Pacific Ocean Earthquake is temporarily assessed as Level 7, considering information obtained after March 18th.

However, the amount of discharged radioactive materials is approximately 10 percent of the Chernobyl accident which was assessed on the same level.

1. INES

INES is the rating, which International Atomic Energy Agency (IAEA) and Nuclear Energy Agency, Organization for Economic Cooperation and Development (OECD/NEA) established and proposed to the Member States in March 1992, in order to indicate the impact on safety by the individual event in a nuclear facility and so on. Japan has also utilized it since 1 August 1992.

2. Events in Fukushima Dai-ichi NPS, TEPCO, by the Tohoku District - off the Pacific Ocean Earthquake

On 18 March, the ratings of the events in Fukushima Dai-ichi NPS by the Tohoku District - off the Pacific Ocean Earthquake were informed to be temporarily assessed as Level 5, considering information obtained before March 18th. However, Nuclear and Industrial Safety Agency (NISA) estimated the total amount of discharged radioactive materials from the reactors of Fukushima Dai-ichi NPS to the air, making a trial calculation using the result of analysis of the situation of the reactors and so on, which was carried out by Japan Nuclear Energy Safety Organization (JNES). This estimation resulted in the value corresponding to Level 7 of INES rating\*, as listed in the following table...

\* The value representing radiation impact, which is converted to the amount equivalent to <sup>131</sup>I (Iodine), exceeds several tens of thousands of tera-becquerel (of the order of magnitude as 10<sup>16</sup> Bq).

In addition, Nuclear Safety Commission of Japan (NSC) also estimated and announced the result of the trial calculation in the current stage regarding the total amount of discharged radioactive materials to the air, which had been being carried out in the Commission. This trial calculation is counted backward from the results of monitoring data of <sup>131</sup>I and <sup>137</sup>Cs (Caesium) as the total amount of the discharge from the Fukushima Dai-ichi NPS, This results in the value corresponding to Level 7 of INES rating as well.

|                                                 | Assumed amoun           | (Reference)<br>Amount of the |                                             |
|-------------------------------------------------|-------------------------|------------------------------|---------------------------------------------|
|                                                 | from Fukushin           |                              |                                             |
|                                                 | Estimated by<br>NISA    | Announced by<br>NSC          | discharge from the<br>Chernobyl<br>accident |
| <sup>131</sup> I (a)                            | 1.3×10 <sup>17</sup> Bq | 1.5×10 <sup>17</sup> Bq      | 1.8×10 <sup>18</sup> Bq                     |
| $^{137}\mathrm{Cs}$                             | 6.1×10 <sup>15</sup> Bq | 1.2×10 <sup>16</sup> Bq      | 8.5×10 <sup>16</sup> Bq                     |
| (Converted<br>value to <sup>131</sup> I)<br>(b) | 2.4×10 <sup>17</sup> Bq | 4.8×10 <sup>17</sup> Bq      | 3.4×10 <sup>18</sup> Bq                     |
| (a) + (b)                                       | 3.7×10 <sup>17</sup> Bq | 6.3×10 <sup>17</sup> Bq      | 5.2×10 <sup>18</sup> Bq                     |

(Notes) The conversion of the values to be equivalent to radiation impact of <sup>131</sup>I regarding the NISA's estimation and the NSC's announcement were carried out by NISA in accordance with the INES User's Manual.

Although Level 7 is the highest level of INES rating, it is estimated that the amount of discharged radioactive materials to the environment in the current stage is approximately 10 percent of the Chernobyl accident, which was assessed on the same level in the past.

#### 3. Procedures to be taken

This information is about the result of the total amount of the discharge from Fukushima Dai-ichi NPS in the current stage. As radioactive materials are being released to the environment, NISA will continuously gather and evaluate information.

In addition, the official level of INES will be determined, considering the technical evaluation from specialist view points made by INES Evaluation Subcommittee (Chairman: Dr. Naoto Sekimura, Professor of University of Tokyo, Nuclear Professional School Engineering, Department of Nuclear Engineering and Management), which set up in the Nuclear and Industrial Safety Subcommittee of the Advisory Committee for Natural Resources and Energy, after the recurrence prevention measures are confirmed based on the concrete causes found.

> (Contact Person) Mr. Toshihiro Bannai Director, International Affairs Office, NISA/METI Phone: +81-(0)3-3501-1087

From: Sent: To: Subject: LIA10 Hoc Tuesday, April 12, 2011 2:33 PM LIA08 Hoc; LIA02 Hoc; LIA03 Hoc FW: Security clearences for 3 more travelers

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From: LIA03 Hoc Sent: Tuesday, April 12, 2011 2:33 PM To: LIA08 Hoc; LIA02 Hoc; LIA10 Hoc Subject: FW: Security clearences for 3 more travelers

From: Kozal, Jason Sent: Tuesday, April 12, 2011 2:33 PM To: Kerben, Valerie Cc: LIA02 Hoc; LIA03 Hoc Subject: Re: Security clearences for 3 more travelers

Valerie,

Did your branch get a chance to send these yet? I just got a call from USAID saying they have not received them yet.

Sent from an NRC BlackBerry Jason W Kozal

From: Kozal, Jason To: Kerben, Valerie Cc: LIA02 Hoc; LIA03 Hoc Sent: Tue Apr 12 11:36:18 2011 Subject: Security clearences for 3 more travelers

Valerie,

Please send clearance info to USAID for the following NRC employees.

Donald Norwood

Sean Meighan

Tim Lupold

Thanks.

Respectfully,

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# , Jason Kozal

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Senior Emergency Response Coordinator-Federal Interagency Coordinator Office of Nuclear Security and Incident Response Division of Preparedness and Response Coordination Branch US Nuclear Regulatory Commission (O) 301-415-6231 (BB)

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jason.kozal@nrc.gov

From: Sent: To: Subject: Attachments:

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LIA02 Hoc Tuesday, April 12, 2011 7:39 AM Stahl, Eric; LIA03 Hoc RE: Arrived in U.S. RETURN checklist 3-27-2011 (w MEvans input).docx

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From: Stahl, Eric Sent: Tuesday, April 12, 2011 7:30 AM To: LIA02 Hoc; LIA03 Hoc Subject: RE: Arrived in U.S.

Can you pleased send me a copy of the "return checklist?"

THE REPORT OF TH

. . . . . . . . .

Thanks,

Eric

From: LIA02 Hoc Sent: Tuesday, April 12, 2011 7:15 AM To: Stahl, Eric; LIA03 Hoc Subject: RE: Arrived in U.S.

great

From: Stahl, Eric Sent: Monday, April 11, 2011 6:06 PM To: LIA02 Hoc; LIA03 Hoc Subject: Arrived in U.S.

and a second second

Eric Stahl U.S. Nuclear Regulatory Commission Office of International Programs Tel: +1 301-415-0246 Mob: (b)(6)

|    | NRC Japan Team Return Checklist                                                                                                                                                                                                                                                     |           |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|    |                                                                                                                                                                                                                                                                                     | Completed |
| 1. | <b>Prompt Communication of Urgent Information -</b> Urgent information should be communicated during the trip or immediately upon return to Ops Center staff.                                                                                                                       |           |
| 2. | Return International Blackberry and Calling Cards, if necessary – Contact Karen Jackson at 415-6398                                                                                                                                                                                 |           |
| 3. | Return Passport (if traveling with official) – Contact Kia Jackson at 415-1690                                                                                                                                                                                                      |           |
| 4. | <b>Return dosimetry –</b> Give to ADM desk on 2 <sup>nd</sup> floor of OWFN or your Regional RSO.                                                                                                                                                                                   |           |
| 5. | Debrief         o       Office Management         o       Ops Center Personnel (Executive Team/Protective Measures Team/Reactor Safety Team, as appropriate)                                                                                                                        |           |
| 6, | <b>Check-in with Health Center</b> – (1) the Office of Human Resources strongly recommends that all returning employees check in with the Employee Assistance Program (EAP) for a Critical Incident Stress Debrief. Contact <u>Sarah.Linnerooth@nrc.gov</u> ; (2) return KI tablets |           |
| 7. | <b>Contact HR</b> - to review hours of duty and premium pay entitlements, Larry Davidson, Lawrence.davidson@nrc.gov, 301-492-2286                                                                                                                                                   |           |

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J.

From: Sent: To: Subject: Attachments: LIA10 Hoc Tuesday, April 12, 2011 8:57 AM LIA08 Hoc; LIA02 Hoc; LIA03 Hoc FW: NRC travelers NRC - Information Required 1 page 4-12-11.docx

-----Original Message-----From: LIA03 Hoc Sent: Tuesday, April 12, 2011 8:57 AM To: LIA08 Hoc; LIA02 Hoc; LIA10 Hoc Subject: FW: NRC travelers

-----Original Message-----From: Kozal, Jason Sent: Tuesday, April 12, 2011 8:57 AM To: LIA02 Hoc; LIA03 Hoc Cc: Bloom, Steven Subject: FW: NRC travelers

All,

For all travelers going forward please use the attached checklist.

V/r,

Jason Kozal USNRC/NSIR/DPR/CB 301-415-6231

-----Original Message-----From: RMTPACTSU\_AC [mailto:RMTPACTSU\_AC@ofda.gov] Sent: Tuesday, April 12, 2011 8:21 AM To: Kozal, Jason Cc: travel Subject: RE: NRC travelers

Hi Jason,

In order to avoid all of the back and forth that took place yesterday to get the information required on each traveler, please have them complete the following form. This provides all of the information we require for setting up the reservation, getting a TA issued and completing the Country Clearance process.

In addition, please have Ms. Kerben continue to forward over the security verification for each traveler as she has done for all other travelers.

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Regards,

Ronald Mortensen 202-712-0031 (b)(6) Rmtpactsu\_ac@ofda.gov rmortensen@ofda.gov

-----Original Message-----From: Kozal, Jason [mailto:Jason.Kozal@nrc.gov] Sent: Tuesday, April 12, 2011 6:14 AM To: RMTPACTSU\_AC Subject: NRC travelers

Thanks for all the help. I just found out we have 3 more for this week. I have one name. Gathering info now: Looking for travel on thurs.

2

- T C C C

Donald Norwood. Dulles

Sent from an NRC BlackBerry Jason W Kozal

#### NRC - INFORMATION REQUIRED FOR TICKETING AND COUNTRY CLEARANCE

Departure Date: Departing From (City/Airport): Return Date:

#### Personal Information

Full Name: Date of Birth: Social Security Number: Home Address: Cell Phone Number: E-Mail: Employment type (Direct Hire/PSC, etc.): Security Clearance (Secret/Top Secret/etc.):

#### Passport Information

Passport No: Place/Country of Birth: Passport Type (Official/Personal/Diplomatic) Date of Issuance: Expiration Date:

## **Emergency Contact Information**

Name:

**Relationship:** 

Phone Number:

# Financial Information Bank Name:

Name on Account:

Account No.:

**Routing No:** 

NRC – Information Required 4-7-11

From: Sent: To: Cc: Subject: Bloom, Steven Tuesday, April 12, 2011 9:16 AM Kozal, Jason; Meighan, Sean LIA02 Hoc; LIA03 Hoc; Evans, Michele RE: NRC travelers for 4/12

Sean,

Please call me at 415-2431 or stop by O-4F4 so we can get some information from you.

Steve Bloom

From: Evans, Michele Sent: Tuesday, April 12, 2011 9:15 AM To: Kozal, Jason Cc: LIA02 Hoc; LIA03 Hoc; Bloom, Steven; Meighan, Sean Subject: RE: NRC travelers for 4/12

The third traveler is Sean Meighan/NRR. Sean's passport is

thanks

From: Kozal, Jason Sent: Monday, April 11, 2011 3:24 PM To: Evans, Michele Cc: LIA02 Hoc; LIA03 Hoc Subject: NRC travelers for 4/12

Michele,

All 6 travelers for 4/12 have tickets and hotel accommodations in Tokyo. We have one of the names, Tim Lupold travelling on 4/14, for the remaining three and are just waiting on the other two individual's names. USAID will begin processing Tim and any others in the AM.

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Try for travel on Thursday 4/14.

Respectfully,

Jason Kozal

Senior Emergency Response Coordinator-Federal Interagency Coordinator Office of Nuclear Security and Incident Response Division of Preparedness and Response Coordination Branch US Nuclear Regulatory Commission -(O) 301-415-6231

(BB) (b)(6) Jason.kozal@nrc.gov From: Sent: To: Subject: LIA10 Hoc Tuesday, April 12, 2011 11:36 AM LIA08 Hoc; LIA02 Hoc; LIA03 Hoc FW: Security clearences for 3 more travelers

From: LIA03 Hoc Sent: Tuesday, April 12, 2011 11:36 AM To: LIA08 Hoc; LIA02 Hoc; LIA10 Hoc Subject: FW: Security clearences for 3 more travelers

From: Kozal, Jason Sent: Tuesday, April 12, 2011 11:36 AM To: Kerben, Valerie Cc: LIA02 Hoc; LIA03 Hoc Subject: Security clearences for 3 more travelers

Valerie,

Please send clearance info to USAID for the following NRC employees.

Donald Norwood

Sean Meighan

Tim Lupold

Thanks.

Respectfully,

Jason Kozal

Senior Emergency Response Coordinator-Federal Interagency Coordinator Office of Nuclear Security and Incident Response Division of Preparedness and Response Coordination Branch US Nuclear Regulatory Commission (O) 301-415-6231 (BB) From: Sent: To: Cc: Subject: Kerben, Valerie Tuesday, April 12, 2011 12:07 PM LIA02 Hoc; LIA03 Hoc Ross-Lee, MaryJane; Pretzello, Andrew RE: Security clearences for 3 more travelers

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We will process these additional names with USAID and DOS. Thank you

Valerie B. Kerben, Chief Personnel Security Branch Nuclear Regulatory Commission P-(301) 492-3527 F-(301) 492-3442

From: Kozal, Jason To: Kerben, Valerie Cc: LIA02 Hoc; LIA03 Hoc Sent: Tue Apr 12 11:36:18 2011 Subject: Security clearences for 3 more travelers

Valerie,

Please send clearance info to USAID for the following NRC employees.

Donald Norwood

Sean Meighan

Tim Lupold

Thanks.

Respectfully,

Jason Kozal

Senior Emergency Response Coordinator-Federal Interagency Coordinator Office of Nuclear Security and Incident Response Division of Preparedness and Response Coordination Branch US Nuclear Regulatory Commission (O) 301-415-6231 (BB) (0)(6)(6)(7) Tason.kozal@nrc.gov

| From:       | Turtil, Richard                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------|
| Sent:       | Tuesday, April 12, 2011 2:22 PM                                                                         |
| To:         | CDC IMS State Coordination Task Force                                                                   |
| Cc:         | Milligan, Patricia; Browder, Rachel; Piccone, Josephine; LIA06 Hoc; LIA08 Hoc; Wright,<br>Lisa (Gibney) |
| Subject:    | RE: 2011 Japan Response State Call - scheduled regardless of potential government shutdown              |
| Importance: | High                                                                                                    |

#### CDC/HHS:

Patricia Milligan will be the NRC presenter on this evening's call. (Not Rachel Browder).

Thank you.

Richard Turtil, Chief

Intergovernmental Liaison Branch

Office of Federal and State Materials and Environmental Management Programs

U.S. Nuclear Regulatory Commission

301-415-2308

800-368-5642

-----Original Appointment-----

From: CDC IMS State Coordination Task Force [mailto:eocstatecoord@cdc.gov]

Sent: Friday, April 08, 2011 3:15 PM

To: Boedigheimer, Steven F. (CDC/OPHPR/DSLR); Rogers, Barbara A. (CDC/OD/OADP); Stevens, Sheila (ATSDR/OPPE); CDC IMS Current Ops Lead -2; 2011 Japan Earthquake (CDC); CDC IMS JIC Community Outreach/Education -2; Davis, Mark A. (CDC/ONDIEH/NCIPC); Talbert, Todd (CDC/OPHPR/DSLR); Doan, Stephanie (CDC/ONDIEH/NCEH); Bushong, Erica L. (CDC/OPHPR/DSLR); Marrone, Ashley A. (CDC/OID/NCEZID); Pippin, Roger L. (CDC/OPHPR) (CTR); Bryant, Jeffrey (Jeff) (CDC/OPHPR/DSLR); Allred, Phillip M. (Mike) (CDC/ONDIEH/NCEH); Jones, Robert L. (CDC/ONDIEH/NCEH); Kapil, Vikas (CDC/ONDIEH/NCEH); Russell, Elizabeth B. (ACF); White, Jonathan D. (ACF); Sadovich, Juliana (ACF); Jones, Robin (ACF); Verbeten, John E. (FDA/ORA/ORO); Jackson, Leeanne (FDA/CFSAN/OCD); Russo, Mark R. (FDA/OC/OCTC); Muldoon, Molly V. (FDA/OC); Leblanc, Pamela (FDA/CFSAN/OCD); El Hinnawy, Patricia C. (FDA/OC/OEXA); Delancey, Siobhan M. (FDA/OC/OEXA); Howard King, Vinetta M. (FDA/OC/OCTC); Mahon, John (IHS/HQ); Karol, Susan (IHS/HQ); Fowler, Erin (OS); Michael, Gretchen (OS); Ball, Harvey J. (OS); Forsha, Joseph D. (OS); Yeskey, Kevin (OS); Kaplowitz, Lisa (OS); Marinissen, Maria Julia (OS); Sanders, Melissa (OS); Vineyard, Michael (OS); Lurie, Nicole (OS); Bratcher Bowman, Nikki (OS); Natarajan, Nitin (OS); Sizemore, Tom (OS); Spear, Terri (SAMHSA); Herrmann, Jack (CDC naccho.org); Blumenstock, Jim (CDC astho.org); Bronstein, Al; Siebers, Anthony; Bowles, Jack; McDermott, Catherine; Hanson, Carolyn; Lagdon, Chip; Weise, Donna; Flynn, Mike; Lusk, Jeffrey; Brinsfield, Kathryn; McAleenan, Kevin; LIA04 Hoc; Ryan, Michelle; OST05 Hoc; Simmons, Patrick; Browder, Rachel; Howe, Randy; Turtil, Richard; McBurney, Ruth; Flanders, Scott: Tupin, Edward

Subject: 2011 Japan Response State Call - scheduled regardless of potential government shutdown When: Tuesday, April 12, 2011 5:00 PM-6:00 PM (GMT-05:00) Eastern Time (US & Canada). Where: Bldg 21, Executive Conference Room; US: (866) 844-9416/Intl: (203) 369-5026; passcode: (b)(6)

**PLEASE NOTE**: This call remains scheduled regardless of any potential federal government shut-down. **SPEAKERS**: In the event you will not be exempt from furlough, please identify an agency replacement who will be able to participate.

2011 Japan Response State Coordination Conference Call

When: Tuesday, April 12, 2011 5:00 PM-6:00 PM (GMT-05:00) Eastern Time (US & Canada).

Where: Bldg 21, Executive Conference Room; US: (866) 844-9416/Intl: (203) 369-5026; passcode: (6)(6)

Note: The GMT offset above does not reflect daylight saving time adjustments.

You are invited to a conference call meeting to update public health officials while encouraging **policy-level strategic discussion** and information sharing. Federal partners, <u>please include in your response to this email</u> <u>the name of the point of contact</u> who will participate and represent your agency. The POC should call in 15 minutes early for pre-conference discussions; please identify yourself to the Operator as a speaker. There will also be a short post-conference debriefing for speakers.

## <u>Agenda</u>

- Welcome Steve Boedigheimer, CDC
- ASTHO Jim Blumenstock
- ASPR Update, Including Public Affairs
- CDC Update
- Reports from federal partners (2 minutes; strategic overview listing 2-3 priority areas)
- EPA
- FDA
- NRC
- DOE
- CBP
- NOAA
- HHS-IGA
- ACF
- SAMHSA
- IHS
- Q&A
- This call will be Operator Assisted
- All callers can begin dialing in 30 minutes prior to the meeting start
- All callers will be greeted by an Operator; please have the Passcode available when requested
- "Speakers" should identify themselves to the Operator at initial dial in
- Participants will hear music until the meeting starts
- The Operator will ask for: First Name, Last Name, Organization and City/State
- A Participant List will be provided to the POCs

From: Sent: To: Cc: Subject: Kozal, Jason Tuesday, April 12, 2011 2:33 PM Kerben, Valerie LIA02 Hoc; LIA03 Hoc Re: Security clearences for 3 more travelers

Valerie,

Did your branch get a chance to send these yet? I just got a call from USAID saying they have not received them yet.

1

Sent from an NRC BlackBerry

Jason W Kozal (b)(6) V?

From: Kozal, Jason To: Kerben, Valerie Cc: LIA02 Hoc; LIA03 Hoc Sent: Tue Apr 12 11:36:18 2011 Subject: Security clearences for 3 more travelers

Valerie,

Please send clearance info to USAID for the following NRC employees.

Donald Norwood

Sean Meighan

Tim Lupold

Thanks.

Respectfully,

Jason Kozal

Senior Emergency Response Coordinator-Federal Interagency Coordinator Office of Nuclear Security and Incident Response Division of Preparedness and Response Coordination Branch US Nuclear Regulatory Commission (O) 301-415-6231 (BB) (b)(6) Jason.kozal@nrc.gov From: Sent: To: Subject: Kozal, Jason Wednesday, April 13, 2011 8:01 AM Kowalczik, Jeffrey Fw: USAID Support

Both phones work. Can only call on break.

Sent from an NRC BlackBerry Jason W Kozal (b)(6)

----- Original Message -----From: Kozal, Jason To: Kowalczik, Jeffrey Cc: 'RMTPACTSU\_AC@ofda.gov' <RMTPACTSU\_AC@ofda.gov>; Bloom, Steven; LIA02 Hoc; LIA03 Hoc; 'RMTPACTSU\_RM@ofda.gov' <RMTPACTSU\_RM@ofda.gov> Sent: Wed Apr 13 07:07:34 2011 Subject: USAID Support

Jeff,

I am downtown all day for the NLE national TTX. Please act as the POC for USAID today. Respond to this e-mail with your contact info for Steve Bloom and Ron at USAID so they can get a hold of you. The number one priority is getting Don Norwoods if for travel. The rest of the info sheets for our travelers are in Jane's safe.

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I will be checking my BB when I can today.

Ron, just to make sure, you have all the security clearance info correct?

Jason

Sent from an NRC BlackBerry Jason W Kozal

UUU 278

From: Sent: To: Subject: Attachments: Kozal, Jason Wednesday, April 13, 2011 11:43 AM Kowalczik, Jeffrey Fw: USAID Support - Travel Reservations for All NRC Staff NRC - Information Required 1 page 4-12-11.docx

Sent from an NRC BlackBerry Jason W Kozal

----- Original Message -----From: RMTPACTSU\_AC <RMTPACTSU\_AC@ofda.gov> To: LIAO2 Hoc Cc: Kozal, Jason; travel <travel@ofda.gov> Sent: Wed Apr 13 11:11:28 2011 Subject: RE: USAID Support - Travel Reservations for All NRC Staff

Here are the links to the travel reservations for all staff currently deployed or scheduled to be deployed including two of the last three - Lupold, Meighan - since we do not have Norwood's information yet so we cannot ticket him. The list in alphabetical order.

Please have Mr. Norwood fill out the attached form and get it to me as soon as possible. Thanks.

Bernhard

https://www.virtuallythere.com/new/reservationsChron.html?name=BERNHARD&host=1W&pnr=DB0EB5J7PR6D&email =2&langRedir=0\_null

Blamey

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&pnr=AINABKND7F5S&name=BLAMEY&languag e=0&email=2

Casto Open (no return reservations made or tickets issued at this time.

Call

https://www.virtuallythere.com/new/reservationsChron.html?name=CALL&host=1W&pnr=NW8JC0Q1174K&email=2&l angRedir=0\_null

Collins

https://www.virtuallythere.com/new/reservationsChron.html?name=COLLINS+JR&host=1W&pnr=ELFFC781MO4Q&em ail=2&langRedir=0\_null

## Garchow

https://www.virtuallythere.com/new/reservationsChron.html?name=GARCHOW&host=1W&pnr=DW2BGHH7N6IQ&em ail=2&langRedir=0\_null 141

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## Gepford

https://www.virtuallythere.com/new/reservationsChron.html?name=GEPFORD&host=1W&pnr=KB2CG535E8L6&email= 2&langRedir=0\_null

#### Hay

https://www.virtuallythere.com/new/reservationsChron.html?name=HAY&host=1W&pnr=NWY1HI5R9FXS&email=2&la ngRedir=0\_null

#### Huffert

https://www.virtuallythere.com/new/reservationsChron.html?name=HUFFERT&host=1W&pnr=A4L1HDOIJHL7&email=2 &langRedir=0\_null

#### Lupold

https://www.virtuallythere.com/new/reservationsChron.html?name=LUPOLD&host=1W&pnr=H41MLOD5F67X&email= 2&langRedir=0\_null

#### Meighan

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&email=2&name=MEIGHAN&pnr=DBBMMHPL2 MMQ&langRedir=0\_null

## Mitman

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&email=2&name=MITMAN&pnr=VF4FMP89M0 55&langRedir=0\_null

#### Moore

https://www.virtuallythere.com/new/reservationsChron.html?name=MOORE&host=1W&pnr=ALIDMOM457NR&email= 2&langRedir=0\_null

## Norwood Need traveler's information in order to proceed.

#### Reynolds

https://www.virtuallythere.com/new/reservationsChron.html?name=REYNOLDS&host=1W&pnr=KBCE4OOR4L64&email =2&langRedir=0\_null

#### Salay

https://www.virtuallythere.com/new/reservationsChron.html?host=1W&pnr=7WFF5CF156G2&name=SALAY&language =0&email=2

## Wittick

https://www.virtuallythere.com/new/reservationsChron.html?name=WITTICK&host=1W&pnr=EFHL96L90LPD&email=2 &langRedir=0\_null

-----Original Message-----From: LIA02 Hoc [mailto:LIA02.Hoc@nrc.gov] Sent: Wednesday, April 13, 2011 9:19 AM To: RMTPACTSU\_AC Subject: RE: USAID Support Please make sure to forward travel reservations for Lupold, Meighan, and Norwood to LIA02.

Steve\_

-----Original Message-----From: RMTPACTSU\_AC [mailto:RMTPACTSU\_AC@ofda.gov] Sent: Wednesday, April 13, 2011 8:08 AM To: Kozal, Jason; Kowalczik, Jeffrey Cc: Bloom, Steven; LIA02 Hoc; LIA03 Hoc; RMTPACTSU\_RM Subject: RE: USAID Support

Hi Everyone,

I have all the security info for the last three travelers including Norwood. Country clearance sent and approval received for both Lupold and Meighan so they should be good to go.

Standing by to receive Norwood's travel info so we can get him in the system, booked and ticketed.

Ronald Mortensen, Ph.D. Admin Coordinator Pacific Tsumami Response Management Team 202-712-0031 571-435-4188 rmtpactsu\_ac@ofda.gov

-----Original Message-----From: Kozal, Jason [mailto:Jason.Kozal@nrc.gov] Sent: Wednesday, April 13, 2011 7:08 AM To: Kowalczik, Jeffrey Cc: RMTPACTSU\_AC; Bloom, Steven; LIA02 Hoc; LIA03 Hoc; RMTPACTSU\_RM Subject: USAID Support

Jeff,

I am downtown all day for the NLE national TTX. Please act as the POC for USAID today. Respond to this e-mail with your contact info for Steve Bloom and Ron at USAID so they can get a hold of you. The number one priority is getting Don Norwoods if for travel. The rest of the info sheets for our travelers are in Jane's safe.

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I will be checking my BB when I can today.

Ron, just to make sure, you have all the security clearance info correct?

Jason

Sent from an NRC BlackBerry Jason W Kozal (b)(6)

#### NRC - INFORMATION REQUIRED FOR TICKETING AND COUNTRY CLEARANCE

Departure Date: Departing From (City/Airport): Return Date:

Personal Information

Full Name:

Date of Birth:

Social Security Number:

Home Address:

Cell Phone Number:

E-Mail:

Employment type (Direct Hire/PSC, etc.):

Security Clearance (Secret/Top Secret/etc.):

Passport Information

Passport No:

Place/Country of Birth:

Passport Type (Official/Personal/Diplomatic)

Date of Issuance:

Expiration Date:

**Emergency Contact Information** 

Name:

**Relationship:** 

Phone Number:

**Financial Information** 

Bank Name:

Name on Account:

Account No.:

Routing No:

NRC – Information Required 4-7-11

From: Sent: To: Cc: Subject:

・世界は今日には、他がは他がは他には、他がのでは他が必要がある。

With Marine Strates and

Smith, Brooke Monday, March 21, 2011 8:48 PM LIA02 Hoc; LIA03 Hoc Foggie, Kirk Travelers

I have been asked to confirm that our replacements know which hotel to go to, how to get there from the airport and who to contact once they arrive. Thanks.

1

m

Sent from an NRC Blackberry. Brooke G. Smith