

(470 Documents)

Group BC

(Records Withheld  
In Part)


**From:** RMTFACTSU\_ELNRC  
**To:** LIA11 Hoc; LIA01 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA12 Hoc; LIA09 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott; F107 Hoc  
**Subject:** 03.22.11 - USAID/DCHA Japan Earthquake and Tsunami Fact Sheet #12  
**Date:** Tuesday, March 22, 2011 7:08:40 PM  
**Attachments:** image001.png  
image003.png  
image005.png  
03.22.11 - USAID-DCHA Japan EQ and Tsunami Fact Sheet #12.pdf  
03.22.11 - Japan Earthquake and Tsunami Map.pdf

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**Subject:** 03.22.11 - USAID/DCHA Japan Earthquake and Tsunami Fact Sheet #12

Please find attached and pasted below the USAID/DCHA Japan Earthquake and Tsunami Fact Sheet #12 and accompanying map, both dated March 22, 2011. These documents have been approved for public use.

If you experience formatting issues in the text below, please refer to the attached document.

To be added to or removed from this distribution list, please email 

**BUREAU FOR DEMOCRACY, CONFLICT, AND HUMANITARIAN ASSISTANCE (DCHA)  
OFFICE OF U.S. FOREIGN DISASTER ASSISTANCE (OFDA)**

***Japan – Earthquake and Tsunami***

Fact Sheet #12, Fiscal Year (FY) 2011

March 22, 2011

*Note: The last fact sheet was dated March 21, 2011.*

**KEY DEVELOPMENTS**

- The earthquake and tsunami have resulted in nearly 9,200 deaths and left nearly 13,800 people missing, as reported by the Government of Japan (GoJ) on March 22. The natural disasters also damaged or destroyed more than 128,000 buildings and 1,700 roads.
- Technicians and engineers have been repairing communications, transportation, and basic service infrastructure, allowing increased numbers of displaced persons to return home or travel to central evacuation centers.
- A magnitude 6.6 aftershock struck off the coast of eastern Honshu Island at a depth of 16.5 miles at approximately 1700 hours local time on March 22. According to the U.S. Geological Survey (USGS), the epicenter was located approximately 170 miles east of Iwaki City, Fukushima Prefecture, and 182 miles east-southeast of Sendai, Miyagi Prefecture. USGS reports that nearby towns on Honshu Island experienced Level III shaking on the Modified Mercalli Intensity Scale, indicating that the earthquake was not likely to result in any damage to structures.

NUMBERS AT A GLANCE <sup>[1]</sup>		SOURCE
Confirmed Deaths	9,199	GoJ NPA <sup>[2]</sup> – March 22, 2011
Missing Persons	13,786	GoJ NPA – March 22, 2011
Number of People in Evacuation Centers	263,915	GoJ NPA – March 22, 2011

BC-1

## **FY 2011 HUMANITARIAN FUNDING PROVIDED TO JAPAN TO DATE**

USAID/OFDA Assistance for the Japan Earthquake and Tsunami..... \$7,135,894  
DoD<sup>[3]</sup> Humanitarian Assistance for the Japan Earthquake and Tsunami.....  
\$20,900,000  
Total USAID and DoD Assistance for the Japan Earthquake and Tsunami.....  
\$28,035,894

### **CONTEXT**

- On March 11 at 0046 hours Eastern Standard Time, or 1446 hours Japan Standard Time, a magnitude 9.0 earthquake occurred off the east coast of Honshu Island—approximately 231 miles northeast of Tokyo—at a depth of approximately 15 miles, generating a tsunami that struck the eastern coast of Japan and resulted in additional fatalities and damage, particularly in Miyagi, Fukushima, and Iwate prefectures. Furthermore, the natural disasters led to a serious nuclear incident at the Fukushima Daiichi power plant located approximately 150 miles north of Tokyo.
- USAID immediately activated a Response Management Team in Washington, D.C., and deployed a Disaster Assistance Response Team (DART)—including urban search and rescue (USAR) specialists and nuclear experts—to support Japanese emergency response efforts. On March 11, U.S. Ambassador John V. Roos declared a disaster due to the effects of the earthquake and tsunami in Japan.

#### ***Humanitarian Situation and Response***

- The newly created GoJ Special Headquarters—designed to assist disaster-affected individuals—began operations on March 20. The headquarters is relocating displaced individuals to unaffected prefectures and working to minimize the burden on local governments in the host prefectures. According to the GoJ Chief Cabinet Secretary, the special headquarters will meet regularly to ensure that displaced individuals receive adequate support. On March 22, the GoJ reported that approximately 264,000 people remained in shelters, representing a decrease of more than 55,000 people—17 percent of the population in shelters—since March 21.
- The number of evacuation centers hosting displaced persons has also decreased as road clearance has enabled displaced persons to congregate in larger evacuation centers that are easier to reach with humanitarian assistance.
- Electrical supply continues to improve with power restored to approximately 27,000 households since March 21, according to the U.N. Office for the Coordination of Humanitarian Affairs (OCHA). As of March 22, approximately 217,000 households remained without power.
- Technicians have restored more than 90 percent of earthquake- and tsunami-damaged telecommunications and 90 percent of damaged roads are now accessible to the public, according to OCHA.

#### ***Logistics and Relief Supplies***

- On March 22, the second shipment of equipment for a DoD-funded high-flow pump system arrived in Japan via two Australian military flights. The equipment will be assembled and transferred to the Fukushima Daiichi power plant to augment cooling capacity at the facility. The initial shipment of equipment for the pump system arrived in Japan on March 21.
- In response to a GoJ request, 10,000 sets of USAID/OFDA-funded personal protective equipment—including suits, masks, gloves, decontamination bags, and other supplies—have arrived at Yokota Air Force Base, near Tokyo. The equipment is en route to individuals working near the nuclear exclusion zone around Fukushima Daiichi nuclear power plant.
- On March 22, DoD delivered 635 daily servings of drinking water and 32,720 daily servings of food to benefit more than 5,500 displaced individuals. At present, 17 ships and an estimated 17,000 personnel are involved in or prepared to assist with humanitarian efforts in Japan.

#### ***Situation at Nuclear Power Plants***

- According to the U.N. World Health Organization (WHO), tests have found limited radioactive contamination of drinking water and certain foods grown in the vicinity of the Daiichi nuclear power plant. As a precautionary measure, the GoJ has suspended shipments of milk from Fukushima Prefecture and leafy vegetables from Ibaraki, Tochigi, Gunma, and Fukushima prefectures, as well as recommended that individuals living near the Fukushima Daiichi facility avoid drinking tap water. However, the GoJ reported that consuming contaminated food or water would not pose a health risk, and WHO reported no evidence that contaminated food has reached other countries.
- U.S. Department of Energy, DART, U.S. Nuclear Regulatory Commission, and U.S. Embassy staff continue to actively monitor and triangulate information on radiation levels in Tokyo. To date, U.S. agencies continue to report that there have not been any increases in radiation levels in Tokyo. DART nuclear specialists also note no significant changes in the situation at the Fukushima Daiichi power plant in recent days.

# **USAID AND DOD HUMANITARIAN ASSISTANCE TO JAPAN**

<i>Implementing Partner</i>	<i>Activity</i>	<i>Location</i>	<i>Amount</i>
<b>USAID/OFDA ASSISTANCE<sup>1</sup></b>			
U.S. Embassy in Tokyo	Emergency Relief Support	Affected Areas	\$100,000
DoD	USAR Operations (Transport of USAR cargo)	Affected Areas	\$1,000,000
L.A. County USAR Team	USAR Operations	Affected Areas	\$2,058,000
Fairfax County USAR Team	USAR Operations	Affected Areas	\$2,058,000
	USAID/DART Support Costs		\$1,618,240
	Administrative Support		\$301,654
<b>TOTAL USAID/OFDA</b>			<b>\$7,135,894</b>
<b>DOD ASSISTANCE</b>			
	Emergency Relief Support	Affected Areas	\$20,900,000
<b>TOTAL DOD</b>			<b>\$20,900,000</b>
<b>TOTAL U.S. HUMANITARIAN ASSISTANCE TO JAPAN IN FY 2011</b>			<b>\$28,035,894</b>

<sup>1</sup> USAID/OFDA funding represents anticipated or actual obligated amounts as of March 22, 2011. Amounts are subject to change.

<sup>2</sup> Estimated expenditure as of March 22, 2011

## **PUBLIC DONATION INFORMATION**

- The most effective way people can assist relief efforts is by making cash contributions to humanitarian organizations that are conducting relief operations. A list of humanitarian organizations that are accepting cash donations for earthquake and tsunami response efforts in Japan can be found at [www.usaid.gov/japanquake](http://www.usaid.gov/japanquake) or [www.interaction.org](http://www.interaction.org).
- USAID encourages cash donations because they allow aid professionals to procure the exact items needed (often in the affected region); reduce the burden on scarce resources (such as transportation routes, staff time, warehouse space, etc.); can be transferred very quickly and without transportation costs; support the economy of the disaster-stricken region; and ensure culturally, dietary, and environmentally appropriate assistance.
- More information can be found at:
  - o The Center for International Disaster Information: [www.cidi.org](http://www.cidi.org) or (703) 276-1914
  - o Information on relief activities of the humanitarian community can be found at [www.reliefweb.int](http://www.reliefweb.int)

USAID/OFDA bulletins appear on the USAID web site at  
[http://www.usaid.gov/our\\_work/humanitarian\\_assistance/disaster\\_assistance/](http://www.usaid.gov/our_work/humanitarian_assistance/disaster_assistance/)

Helen Ho, Lily Frey, and Patricia Shea  
 Information Coordinators  
 Pacific Tsunami and Japan Earthquake Response Management Team  
[RMTPACTSU\\_INC@ofda.gov](mailto:RMTPACTSU_INC@ofda.gov)  
 202-712-0039

[1] Figures remain preliminary and are expected to change.

[2] National Police Agency (NPA)

[3] U.S. Department of Defense (DoD)





**USAID**  
FROM THE AMERICAN PEOPLE

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<sup>2</sup> National Police Agency (NPA)

<sup>3</sup> U.S. Department of Defense (DoD)

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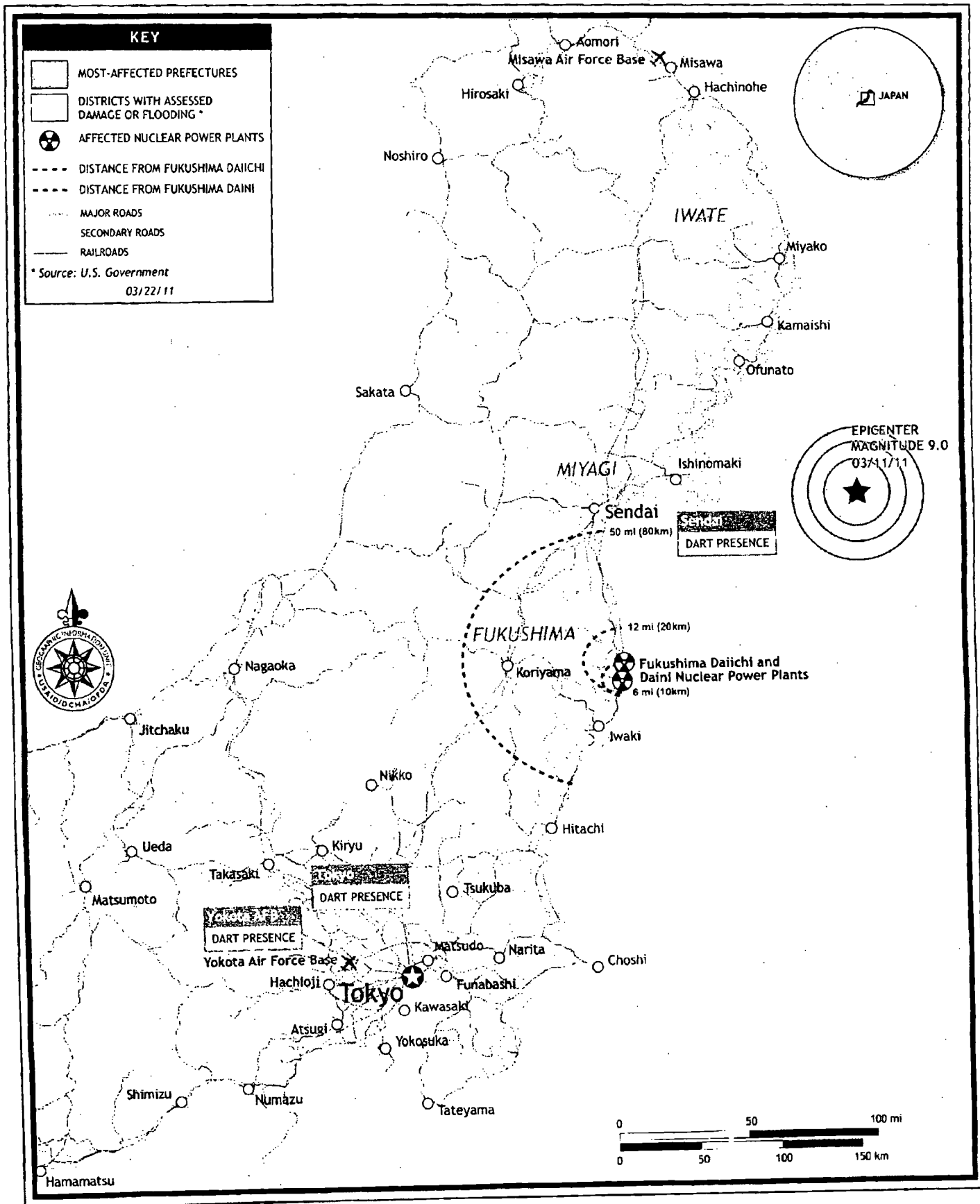
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  - Information on relief activities of the humanitarian community can be found at [www.reliefweb.int](http://www.reliefweb.int)



# USG HUMANITARIAN ASSISTANCE TO JAPAN FOR THE EARTHQUAKE AND TSUNAMI



**Weaver, Tonna**

**From:** Bock, Yoni [ybock@ofda.gov]  
**Sent:** Tuesday, March 15, 2011 3:25 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]

**Subject:** Re: Validation of emergency procurement (4-ton fork-lift)

Please consider this validated. Will MITAM today.

Vr  
Yoni

~~~~~  
Mr. Yonahton Bock  
Military Liaison Officer/ Civ-Mil Coordinator Japan Earthquake/Tsunami DART  
Email: ybock@usaid.gov  
Blackberry: [REDACTED]

Current Location: Yokota AB, Tokyo, Japan

~~~~~  
\* Please note that this email is being sent from my BlackBerry. As such, please excuse any inadvertent typos or errors. \*

\*\*\*\*\*

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

**From:** Warren, Benjamin D Capt USAF PACAF 35 CONS/CD [REDACTED]  
**To:** Bock, Yoni  
**Cc:** [REDACTED]  
[REDACTED]

Sent: Tue Mar 15 03:05:36 2011  
Subject: Validation of emergency procurement (4-ton fork-lift)

35 contracting squadron received an additional USAID requirement as follows:  
4-ton (diesel) folk-lift to be delivered at USAID/DART Base of Operation.  
Request validation from USAID/DART representative.

[REDACTED]  
Please work coordination w/ 35 FW/CC and EOC Director.

Thanks,  
[REDACTED]

BC/2

**From:** JapanEmbassy\_TaskForce  
**To:** Cherry, Ronald C; Duncan, Aleshia D; [REDACTED] Trapp, James; Uises, Anthony; dardneliaoson@ofda.gov; Uchida, Koichi; Tamada, Yoshimi; Nesheiwat, Julia; Morales, Russell A; Mears, Jeremy M  
**Subject:** FW: [urgent inquiry ] additional personnel in firefighting  
**Date:** Tuesday, March 15, 2011 7:25:40 PM

---

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

**From:** [REDACTED] On Behalf Of USFJ-CAT-J5  
**Sent:** Wednesday, March 16, 2011 8:20 AM  
**To:** USFJ-CAT-CHIEF  
**Cc:** Status of U.S. Forces Agreement Division; [REDACTED] J54; USFJ-CAT-GROUND; USFJ-CAT-J4; arata.mizukami@mofa.go.jp; JapanEmbassy, TaskForce; MDAO Org Box; Holbrook, Stewart W CAPT USN USFJ J2; Wiltse, Jeffrey S COL USA USFJ J5; USFJ-CAT-J5  
**Subject:** FW: [urgent inquiry ] additional personnel in firefighting

ALCON,

J00 is going to have us provide a soft "yes" (next e-mail), but wants us to validate it (i.e. 5W's) (will also address in my e-mail), he wants to know the risk (J2 (ground?)/CAPT Holbrook), he wants to have the J4 lean forward and plan to the point of pulling the trigger, and then have the CAT Chief/J4 come back to him with all of this for a final ok, which if given, we will then notify MOFA of as trucks roll.

[REDACTED]

Can you please update the tracker (would maybe make this a tasker vs. a RFI) with all the sub-taskings? Thanks.

v/r  
jt

John D. Tran, Major, USAF  
J54 International Relations Officer, Government Relations Branch United States Forces Japan  
DSN: 315-225-4428  
Comm: 011-81-311-755-4428  
Jpn Comm: 042-552-2511 Ext: [REDACTED]  
Cell: [REDACTED]

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

**From:** Boulware, Stephen B OS1 USN USFJ J3 On Behalf Of USFJ-CAT-CHIEF  
**Sent:** Wednesday, March 16, 2011 7:23 AM  
**To:** USFJ-CAT-J5; USFJ-CAT-J4

BC/3

Cc: USFJ-CAT-CHIEF

Subject: FW: [urgent inquiry ] additional personnel in firefighting

MOFA req answer asap. Added to RFI tracker id# 44

V/r,

USFJ CAT Chief

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

From: WADA ATSURO [<mailto:atsuro.wada@mofa.go.jp>]

Sent: Wednesday, March 16, 2011 7:11 AM

To: USFJ-CAT-CHIEF; Young, Joseph ChiefPolMil AMEMB JP

Cc: MIZUKAMI ARATA

Subject: [urgent inquiry ] additional personnel in firefighting

Mr. [REDACTED] CC Mr. [REDACTED]



Atsuro Wada SOFA Division, MOFA, 03-5501-8282

**From:** RMTPACTSU\_ELNRC  
**To:** Harrington, Holly; McIntyre, David; Burnell, Scott  
**Subject:** FYI - USAID Search & Rescue Teams - AFP photos shot today  
**Date:** Tuesday, March 15, 2011 3:06:43 PM

---

**Subject:** Japan - USAID Search & Rescue Teams - AFP photos shot today

Photos!!! High-res versions are in my Dropbox.

To our interagency friends: There are restrictions on the use of these photos. USAID purchased the rights to them, but we don't have the authority to transfer them to any other agency for their use. (Give me a shout if you have Q's.)

Rebecca Gustafson  
Press Officer  
USAID Response Management Team (RMT)  
Pacific Tsunami and Japan Earthquake  
RMT 202-712-0039  
Emergency Cell [REDACTED]



**FOR YOUR USE**

High res files attached.

**000\_Was3789546.jpg**

US rescue workers, including one with a fiber optic telescopic camera (R), check rubble for survivors in Ofunato while conducting operations in the devastated city on March 15, 2011. Rescue teams from the US, Britain and China began assisting in the search for survivors following the devastating 8.9 earthquake and ensuing tsunami on March 11.

BC/4



Photo credit: Nicholas Kamm / AFP

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**000\_Was3789533.jpg**

US rescue workers check rubble for survivors in Ofunato while conducting operations in the devastated city on March 15, 2011. Rescue teams from the US, Britain and China began assisting in the search for survivors following the devastating earthquake and ensuing tsunami on March 11.

Photo credit: Nicholas Kamm / AFP

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**000\_Hkg4691405.jpg**

A US rescue team sniffer dog from Virginia searches the wreckage of a house for victims during rescue operations in the devastated city of Ofunato, Iwate prefecture on March 15, 2011 as the country struggles to cope following the March 11 earthquake and tsunami.

Photo credit: Toshifumi Kitamura / AFP

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**000\_Was3789841.jpg**

US rescue workers treat a dog which slightly injured its paw while searching for survivors in the devastated city of Ofunato on March 15, 2011. Rescue teams from the US, Britain and China began assisting in the search for survivors following the devastating earthquake and ensuing tsunami on March 11.

Photo credit: Nicholas Kamm / AFP

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**000\_Was3789994.jpg**

A US rescue worker searches for survivors in a destroyed building in the devastated city of Ofunato on March 15, 2011. Rescue teams from the US, Britain and China began assisting in the search for survivors following the devastating earthquake and ensuing tsunami on March 11.

Photo credit: Nicholas Kamm / AFP

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Nan

**Nan Dearborn**

Design Director

Branding Champion

Bureau for Legislative and Public Affairs

U.S. Agency for International Development

[ndearborn@usaid.gov](mailto:ndearborn@usaid.gov)

202 / 712-4013

[www.usaid.gov](http://www.usaid.gov)

**From:** LIA07 Hoc  
**To:** Trapp, James  
**Cc:** RST01 Hoc  
**Subject:** RE: Japan nuclear threat- time sensitive  
**Date:** Friday, March 18, 2011 4:33:51 AM

---

Jim-  
RST has received this as an action item.

-Rebecca Clinton

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

From: Trapp, James  
Sent: Friday, March 18, 2011 4:24 AM  
To: LIA07 Hoc; LIA08 Hoc; LIA01 Hoc; LIA02 Hoc  
Subject: FW: Japan nuclear threat- time sensitive

Could we get someone from the RST to give NASA a call and see if this robot would be useful in this endeavor. I suspect if the robot goes to Fukushima it's not coming back.

Thank You

---

From: Hughart, Joe [jhughart@ofda.gov]  
Sent: Friday, March 18, 2011 3:21 AM  
To: RMTPACTSU\_ELC  
Cc: Trapp, James  
Subject: Re: Japan nuclear threat- time sensitive

NRC will discuss directly with NASAM Thanks.

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

From: RMTPACTSU\_ELC  
To: RMTPACTSU\_RM; Hughart, Joe  
Sent: Fri Mar 18 03:16:14 2011  
Subject: RE: Japan nuclear threat- time sensitive

NASA contact is Adam Parsons ( [REDACTED] or adam.h.parsons@nasa.gov) His phone number is +1- 281.483.3755.

Will the NRC folks contact him directly, or would you like us to facilitate?

Phil

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

From: RMTPACTSU\_RM  
Sent: Friday, March 18, 2011 2:49 AM  
To: Hughart, Joe  
Cc: RMTPACTSU\_ELC  
Subject: RE: Japan nuclear threat- time sensitive

Not yet but we'll work on getting you one.

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

From: Hughart, Joe  
Sent: Friday, March 18, 2011 2:26 AM  
To: RMTPACTSU\_RM  
Subject: Fw: Japan nuclear threat- time sensitive

BC/5

Cara, NRC would like more information about the robot. Do you have a POC at NASA? Thanks.  
Best,  
- Joe Hughart

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

From: Trapp, James <James.Trapp@nrc.gov>  
To: Hughart, Joe  
Sent: Fri Mar 18 02:22:33 2011  
Subject: RE: Japan nuclear threat- time sensitive

I'm sorry - I don't have any experience with the capability of a N. ASA robot. If we could get some promotional/sales literature it might be helpful. Thanks

---

From: Hughart, Joe [jhughart@ofda.gov]  
Sent: Friday, March 18, 2011 1:26 AM  
To: Trapp, James  
Cc: asink@ofda.gov.  
Subject: Fw: Japan nuclear threat- time sensitive

Jim, do you see any current utility in a N. ASA robot at this point? Given the. Amount of water currently being sprayed onto the reactors by the ladder trucks, I think it might just get knocked over. Best, Joe

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

From: RMTPACTSU\_RM  
To: Hughart, Joe  
Cc: RMTPACTSU\_ELC; RMTPACTSU\_PRO; RMTPACTSU\_ELNRC  
Sent: Fri Mar 18 00:00:19 2011  
Subject: FW: Japan nuclear threat- time sensitive

Hi Joe, please see the following inquiry from a Hill staffer about use of a NASA robot for the nuclear situation.  
Please advise and reply all whether the DART and NRC see any use for this offer.

Thank you,  
Cara

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

From: Cook, Bette (DCHA/AA) [mailto:[bcook@usaid.gov](mailto:bcook@usaid.gov)]  
Sent: Thursday, March 17, 2011 8:07 PM  
To: RMTPACTSU\_RM; RMTPACTSU\_PRO; RMTPACTSU\_ELC  
Subject: FW: Japan nuclear threat- time sensitive

Please take a look at this offer of a Robonaut device for Japan and let me have your draft response. Is this something that perhaps the NRC folks might find helpful? Thanks. -- Bette

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

From: Long, Jeff (Blumenthal) [mailto:[Jeff\\_Long@blumenthal.senate.gov](mailto:Jeff_Long@blumenthal.senate.gov)]  
Sent: Thursday, March 17, 2011 10:05 AM  
To: Cook, Bette (DCHA/AA)  
Cc: [REDACTED] DarstD@orbimed.com  
Subject: FW: Japan nuclear threat- time sensitive

Hi Betty,

Thank you for taking my call this morning; I know you've got your hands full these days with the tragedy in Japan.

As I mentioned, a friend of mine and Connecticut constituent, David Darst, reached out to me with a very interesting idea to potentially help with the disaster.

Below is the email chain outlining the idea. In a nutshell, an engineer at NASA, Adam Parsons, cc'd, was on the team that developed the Robonaut 2, recently launched on our country's space station. Attached is a picture and here is a link with additional information:  
<http://robonaut.jsc.nasa.gov/default.asp>.

This might be a useful human-less device for servicing the nuclear reactors, with a very robust base, the Centaur 2. My friend David's colleague chemist, suggested potentially using the device to deliver highly compressed Helium in order to cool down the reactors, in addition to using water.

Is there anyone at USAID that Adam could speak with to discuss the possibility of getting Robonaut 2 to Japan? Is there anyone else you suggest I reach out to?

I realize this is a long-shot but wanted to at least run this by you.

Many thanks for the consideration,

Jeff

--  
Jeff Long  
Legislative Aide  
Office of U.S. Senator Richard Blumenthal  
202-224-6831 (Direct)  
202-224-6593 (Office Fax)  
[jeff\\_long@blumenthal.senate.gov](mailto:jeff_long@blumenthal.senate.gov)

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

From: Darst, David [<mailto:DarstD@OrbiMed.com>]  
Sent: Wednesday, March 16, 2011 2:14 PM  
To: Long, Jeff (Blumenthal)  
Subject: Japan nuclear threat- time sensitive

Jeff,

Below please find some information from a friend of a friend who is at NASA. He helped develop their Robonaut 2, device which is a man-less operated device being used on the space station currently. He believes there could be some use for it, and its Centaur 2 base, in helping the Japanese manage their current nuclear reactor problems at Fukushima Daiichi.

I noticed Senator Blumenthal wrote a letter yesterday to the US Nuclear Regulatory Commission, showing his interest in this area. Do you think he might be willing to pass along the info below to the appropriate people in Japan? Has the US Senate reached out to offer help via US companies/government agencies, in addition to military support? Adam Parsons and his team at NASA are willing to speak with or help however they can. We just need to find the right contacts in Japan who are working on this issue.

Best,  
David

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

From: Adam Parsons [<mailto:adam.parsons@nasa.gov>]  
Sent: Wednesday, March 16, 2011 1:38 PM  
To: Darst, David  
Cc: Claire Richard; Katherine Richard  
Subject: Re: Fw: Japan nuclear threat

If you want to see some of it's capabilities check out:

<http://www.youtube.com/watch?v=6g3qzOZLs6s>  
<http://robonaut.jsc.nasa.gov/default.asp>

We do have a white paper, I'm checking right now to see if that is released yet. However I know that we do not have anything written on the wheeled base, Centaur 2.

As far as nuclear reactors or radiation containment goes I am pretty ignorant. I would think Robonaut 2 with the Centaur 2 base potentially has the capability of replacing a human, that would need to do simple tasks, where human presence is untenable. It has been designed to be tele-operated, meaning that someone could sit in Tokyo or possibly Houston, and direct the robot. This is not to say that radiation does not have adverse effects on robots as well. Radiation does damage electronics. There are certain things you can do to possibly mitigate those effects though.

The Japanese are certainly not lacking in robotics, however I believe that this is the most rugged base to be attached to a humanoid robot.

On Wed, Mar 16, 2011 at 11:48 AM, Darst, David <DarstD@orbimed.com> wrote:


> Adam- thanks for the quick response. This is great. I'll share it with some of my government energy contacts and see what next steps might be. Do you have a written description/white paper on Robonaut 2 that you could send? Do you have thoughts on how it could directly be applied to the Japan nuclear situation. Attached is an article with a few more details, but obviously there is a lot more to learn.

>

> David

>

> -----Original Message-----

> From: Adam Parsons [mailto:

> Sent: Wednesday, March 16, 2011 12:38 PM

> To: Claire Richard

> Cc: Darst, David; Katherine Richard

> Subject: Re: Fw: Japan nuclear threat

>

> David -

> As Claire said I have worked in the Robotics division of NASA for the last four years developing humanoid robotics. Our main project, Robonaut 2, was just put aboard the space station with this last launch. We have very recently implemented an all-terrain wheeled base with Robonaut 2 that, in my estimation, would have the best chance of providing any assistance to the disaster in Japan. I have included a picture of this. Please let me know what you think. I applaud you on trying to do what you can to avoid anymore tragedy from this earthquake. My group and I would like to help any way possible.

>

> Regards,

> Adam

>

>

> On Wed, Mar 16, 2011 at 11:18 AM, Claire Richard <claire.richard@post.harvard.edu> wrote:

>> David--

>>

>> Meet Adam Parsons. Adam works for NASA in their robotics division

>> and has been instrumental in the development of the robot they're

>> sending to space to perform human tasks.

>>

>> Adam--

>>

>> Meet David. David has founded a number of companies and NGOs and has

>> a big heart with the ability to instrument major change.

>>

>> I hope this is fruitful. Let Kate and me know if there's anyway we

>> can help.

>>

>> Claire  
>>  
>> ----- Forwarded message -----  
>> From: Adam Parsons <[REDACTED]>  
>> Date: Wed, Mar 16, 2011 at 11:12 AM  
>> Subject: Re: Fw: Japan nuclear threat  
>> To: Claire Richard <claire.richard@post.harvard.edu>  
>>  
>>  
>> I don't know but I would definitely be interested in trying. My  
>> group would be happy to set up a teleconference with whomever is  
>> appropriate.  
>>  
>> On Wed, Mar 16, 2011 at 10:43 AM, Claire Richard  
>> <claire.richard@post.harvard.edu> wrote:  
>>> Could your robot, or any of the robots NASA has, help with this?  
>>>  
>>> ----- Forwarded message -----  
>>> From: <katerichard@warwick-energy.com>  
>>> Date: Wed, Mar 16, 2011 at 10:38 AM  
>>> Subject: Fw: Japan nuclear threat  
>>> To: Claire Anne Richard <[REDACTED]>  
>>> Cc: David Darst <darstd@orbimed.com>  
>>>  
>>>  
>>> Claire Anne,  
>>> See David's great suggestion below. Do you think any of your friends  
>>> at Exxon or anyone in Adam's robot business unit at Nasa would have  
>>> any creative solutions?  
>>> K  
>>>  
>>> Sent via BlackBerry by AT&T  
>>>  
>>> \_\_\_\_\_  
>>> From: "Darst, David" <DarstD@OrbiMed.com>  
>>> Date: Wed, 16 Mar 2011 11:14:19 -0400  
>>> To: Charlie Leykum <Charlie@cslenergy.com>; David  
>>> Roeske <droske@soundpostlp.com>; Nitin  
>>> Sacheti <nsacheti@tigereuropellc.com>;  
>>> <katerichard@warwick-energy.com>; Cedric  
>>> Francois <cedric@apellis.com>  
>>> Subject: Japan nuclear threat  
>>>  
>>> To my energy expert friends- any ideas to offer about containing the  
>>> nuclear situation? Not sure who you would send them to, but I think  
>>> its equally as important as finding ways to invest in Japan... and  
>>> the two are certainly connected. I could send to Kleiner Perkins/Al  
>>> Gore (I'm sure they are involved in helping) if you think of any  
>>> brilliant ways to contain the reactor risks with non-human solutions ideally.  
>>> A lot of lives could be at stake.  
>>>  
>>>  
>>>  
>>> David  
>>>  
>>>  
>>>  
>>> From: Kahn, Jason  
>>> Sent: Wednesday, March 16, 2011 11:02 AM  
>>> To: 5 - Public Equity

>>> Subject:

>>>

>>>

>>>

>>> DJ EU ENERGY CHIEF: SITUATION AT JAPAN NUCLEAR PLANT OUT OF CONTROL..

>>> DJ EU ENERGY CHIEF: POSSIBLE CATASTROPHIC EVENTS IN NEXT HOURS

>>>

>>>

>>>

>>>

>>> Jason Kahn

OrbiMed Advisors

>>>

>>> OrbiMed Advisors, LLC

>>> 767 Third Avenue, 30th Floor | New York, NY 10017

>>> (: 212-739-6400

>>> \*: KahnJ@OrbiMed.com

>>>

>>>

>>>

>>>

>>> This message is intended for the individual to whom it is addressed

>>> and may contain information that is privileged, confidential and/or

>>> exempt from disclosure under applicable laws. If you are not the

>>> intended recipient, you are hereby notified that any dissemination,

>>> distribution, or copying of this communication is strictly

>>> prohibited. If you receive this communication in error, please

>>> contact the sender by reply email and delete the original message

>>> and all copies thereof from your system.

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>>

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> is privileged, confidential and/or exempt from disclosure under applicable laws. If you are not the

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recipient, you are hereby notified that any dissemination, distribution, or copying of this communication

is strictly prohibited. If you receive this communication in error, please contact the sender by reply email

and delete the original message and all copies thereof from your system.



**From:** RMTPACTSU\_RM <RMTPACTSU\_RM@ofda.gov>  
**Sent:** Saturday, March 19, 2011 7:59 AM  
**To:** RMTPACTSU\_ELNRC; [REDACTED]  
**Cc:** [REDACTED] Cohen, Harold(GC/DCHA) [USAID]; RMTPACTSU\_MLO;  
Berger, William (RDMA/OFDA) [USAID]; Hughart, Joseph (FOH)  
**Subject:** RE: Train 1 Pricing

[REDACTED]

Please advise.

Kathleen Martin  
Response Manager  
Pacific Tsunami Response Management Team rmtpactsu@ofda.gov  
202-712-0039

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

**From:** RMTPACTSU\_ELNRC  
**Sent:** Saturday, March 19, 2011 7:47 AM  
**To:** [REDACTED] RST01 Hoc (RST01.Hoc@nrc.gov);  
et07.hoc@nrc.gov; 'Merchant, Ned'; Bock, Yoni; LIA01.Hoc@nrc.gov; brian.mcdermott@nrc.gov  
**Cc:** Bock, Yoni; RMTPACTSU\_LC; RMTPACTSU\_RM; Cohen, Harold(GC/DCHA) [USAID]  
**Subject:** RE: Train 1 Pricing  
**Importance:** High

[REDACTED]

Also, the USAID was with the impression that Bechtel would provide the staff rather than an ongoing charge for support personnel.

At a minimum, even if the need and the equipment rarity in Japan were to be provided, the funding authorization would not occur in the near future.

BC/6

Bob Kahler

Robert E. Kahler

Branch Chief, Inspection and Regulatory Improvements Branch US NRC NSIR/DPR/DDEP/IRIB USAID NRC Liaison,  
Japanese Event USAID Desk: (202)

712-4384

Blackberry:

Personal Cell:

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

From: Grana, Brian T. Maj USMC [mailto: ]

Sent: Saturday, March 19, 2011 6:18 AM

To: Hughart, Joe; RMTPACTSU\_ELNRC

Cc: Bock, Yoni; RMTPACTSU\_LC

Subject: RE: Train 1 Pricing

Sir,

That is really not how this works.

The quoted price was \$750k, of which funding was secured.  
Anything over that could be a deal breaker.

The invoiced price is in the neighborhood of \$2m US...

V/R,

Marine

PACOM J4 LNO to USFJ

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

From: Hughart, Joe [mailto:jhughart@ofda.gov]

Sent: Saturday, March 19, 2011 7:16 PM

To: Grana, Brian T. Maj USMC; RMTPACTSU\_ELNRC

Cc: Bock, Yoni; RMTPACTSU\_LC

Subject: Re: Train 1 Pricing

True, but perhaps Mr. Wayne Godfrey can work that out with the vendor.  
Can either of you locate him at Yokota? He is a contracting officer.

Now, let's see if we can get the goods to Japan. From previous emails, it looks like the next viable C-17 is tomorrow or shortly thereafter.

What do you need from me to help make that happen?

- Joe Hughart

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

From: [REDACTED]

To: RMTPACTSU\_ELNRC; Hughart, Joe

Cc: Bock, Yoni; RMTPACTSU\_LC

Sent: Sat Mar 19 06:01:28 2011

Subject: RE: Train 1 Pricing

Sir,

Not sure of the conversion cost; however, only \$750k US was approved for this.

Prior to giving an invoice, you need to have a contract.

Need input.

V/R,

[REDACTED]

Marine

PACOM J4 LNO to USFJ

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

From: RMTPACTSU\_ELNRC [mailto:RMTPACTSU\_ELNRC@ofda.gov]

Sent: Saturday, March 19, 2011 6:54 PM

To: Hughart, Joe

Cc: Bock, Yoni; Grana, Brian T. Maj USMC; RMTPACTSU\_LC

Subject: FW: Train 1 Pricing

Joe,

Attached is an invoice for the equipment. I can only assume it is from the vendor? - Resource Equipment LTD. The invoice provides contact information.

Bob Kahler

Robert E. Kahler

Branch Chief, Inspection and Regulatory Improvements Branch

US NRC NSIR/DPR/DDEP/IRIB

USAID NRC Liaison, Japanese Event

USAID Desk: (202) 712-4384

Blackberry:

(b)(6)

Personal Cell:

(b)(6)

From: Merchant, Ned [mailto:cemercha@bechtel.com]  
Sent: Saturday, March 19, 2011 5:43 AM  
To: RMTFACTSU\_ELNRC; RST01.Hoc@nrc.gov; Berger, William (RDMA/OFDA) [USAID]; Young, Joseph M  
Cc: Rau, Carl; Reilly, Brian (Power); Thomas, Eugene  
Subject: FW: Train 1 Pricing

Please find attached the pricing for train 1. I still need invoicing instructions from USAID.

Best Regards, Ned

"Quality is not an act, it is a habit"

From: Hart, James V  
Sent: Saturday, March 19, 2011 3:28 AM  
To: Merchant, Ned  
Subject: Train 1 Pricing

Ned, here is the quote for Train 1. This is what is already enroute by the time you wake up.

This does not include the inland freight to Pearce AFB. The cost of Vendor Reps, unit rates included, sustenance and travel excluded, is roughly \$130,000 based on an estimate of 21 days.

Regards,

James Hart

Global Procurement Operations

Mining and Metals - Brisbane Australia

Tel: +61-07-3167-5855

Mob: 

Mailstop: Wickham/3.79

---

From: Hart, Denise  
Sent: Saturday, March 19, 2011 6:17 PM  
To: Hart, James V  
Cc: Amesbury, Lucy  
Subject: FW: Water Pumping System - Japan - STSO Contract

The proposal for the 1st tranche

Denise P. Hart

Contracts Manager

---

From: Jamie Cullen [mailto:JCullen@rel.com.au]  
Sent: Saturday, 19 March 2011 6:15 PM  
To: Hart, Denise; Amesbury, Lucy  
Cc: Chris Whale  
Subject: RE: Water Pumping System - Japan - STSO Contract

Dear Denise and Lucy

Please see attached as requested. This excludes GST, which needs to be added to the invoice (unless there is an applicable exemption we can rely on).

Regards

Jamie Cullen

Chief Executive Officer

Resource Equipment Ltd

p: +61 8 9458 3111

f: +61 8 9258 9804

m: 

e: [jcullen@rel.com.au](mailto:jcullen@rel.com.au) <<mailto:jamie.cullen@rergroup.com.au>>

w: [www.rel.com.au](http://www.rel.com.au) <<http://www.resourcerentals.com.au>>

From: Hart, Denise [<mailto:dphart@bechtel.com>]

Sent: Saturday, 19 March 2011 3:03 PM

To: Chris Whale; Jamie Cullen

Cc: Fernandes, Edward; Amesbury, Lucy

Subject: RE: Water Pumping System - Japan - STSO Contract

Attached is the Supplier Technical Services Order for your review -

Let me know of any issues. Once we receive your rates, I will insert into the Ex C docs - right now I am looking at 14 day for the NTE value

- if you think I need to add time let me know I am open!

Denise P. Hart

Contracts Manager

Bechtel Australia PTY LTD

IndoMet Coal Project

Tel: (61) 07 3167 8850

Mob:



email: dphart@bechtel.com <mailto:dphart@bechtel.com>

---

From: Chris Whale [mailto:CWhale@rel.com.au]  
Sent: Saturday, 19 March 2011 3:28 PM  
To: Amesbury, Lucy; Jamie Cullen  
Cc: Hart, Denise  
Subject: RE: Water Pumping System - Japan

Thank you Luck

Jamie and I are working on the quote now.

Chris Whale

North West & Special Projects Manager

cid:image003.gif@01CB705A.73DA3940

From: Amesbury, Lucy [mailto:lamesbur@bechtel.com]  
Sent: Saturday, 19 March 2011 1:08 PM  
To: Chris Whale  
Cc: Hart, Denise  
Subject: RE: Water Pumping System - Japan

Hi Chris

As discussed, please find attached agreed changes to general conditions of purchase.

We understand that your pricing will be excluding all taxes and duties, and will be based on purchase of the goods (not hire).

Denise will be emailing you the conditions for on-site Seller's representatives shortly.

Thanks and regards,

Lucy Amesbury

---

From: Hart, Denise  
Sent: Saturday, March 19, 2011 12:05 PM  
To: 'CWhale@rel.com.au'  
Cc: Amesbury, Lucy  
Subject: FW: Water Pumping System - Japan

Chris,

Attached is the native PO less the line items and the pricing for the Water Pumping System. Please review and advise if you have any issues.

I am in process of drafting a second contract document for the Service Representative - should have it to you shortly.

Denise P. Hart

Contracts Manager

---

From: Amesbury, Lucy  
Sent: Saturday, 19 March 2011 11:58 AM  
To: 'CWhale@rel.com.au'  
Cc: Hart, Denise  
Subject: Water Pumping System - Japan

Hi Chris



Further to our conversation on Commercial requirements, Denise (copied) will be sending you the US Government terms and conditions of purchase, for review (for equipment supply).

With regards to your quote for purchase (not hire), please could you also send with it your BOM in word or excel native format, so we can use that to generate our PO line items

Please list line items nos. price and qtys in your quote, so they reconcile with the line items listed in the attached.

Please also send us your drawing with equipment specifications for review, and reference in the PO.

Please include in your quote, the supply of;

Cost for 2 persons to supervise preassembly at the Japanese military base (assume travel and any accommodation at our cost)

Instruction Manuals

2 sets of tools

Spare parts

There will be two Purchase Orders, one for your personnel and another for the equipment supply.

Many thanks,

Lucy Amesbury



**From:** Harrington, Holly  
**To:** Chandrabhil, Prema; Dricks, Victor; Hannah, Roger; Ledford, Joey; Mitlyng, Viktoria; Screnci, Diane; Sheehan, Neil; Uselding, Lara; Brenner, Eliot; Burnell, Scott; Couret, Yvonne; Hayden, Elizabeth; McIntyre, David  
**Subject:** FW: Japan EQ Press Guidance - 03.21.11  
**Date:** Monday, March 21, 2011 10:00:28 AM  
**Attachments:** 110321 0930 EDT Japan EQ Talking Points.doc

---

FYI – if it's useful


**From:** RMTPACTSU\_ELNRC [mailto:RMTPACTSU\_ELNRC@ofda.gov]  
**Sent:** Monday, March 21, 2011 9:59 AM  
**To:** LIA11 Hoc; LIA01 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA12 Hoc; LIA04 Hoc; Harrington, Holly; Burnell, Scott; McIntyre, David; ET07 Hoc  
**Subject:** FYI: Japan EQ Press Guidance - 03.21.11

**Subject:** Japan EQ Press Guidance - 03.21.11

Dear all,

Please find attached the updated USAID/OFDA Japan press talking points for March 21, 2011.

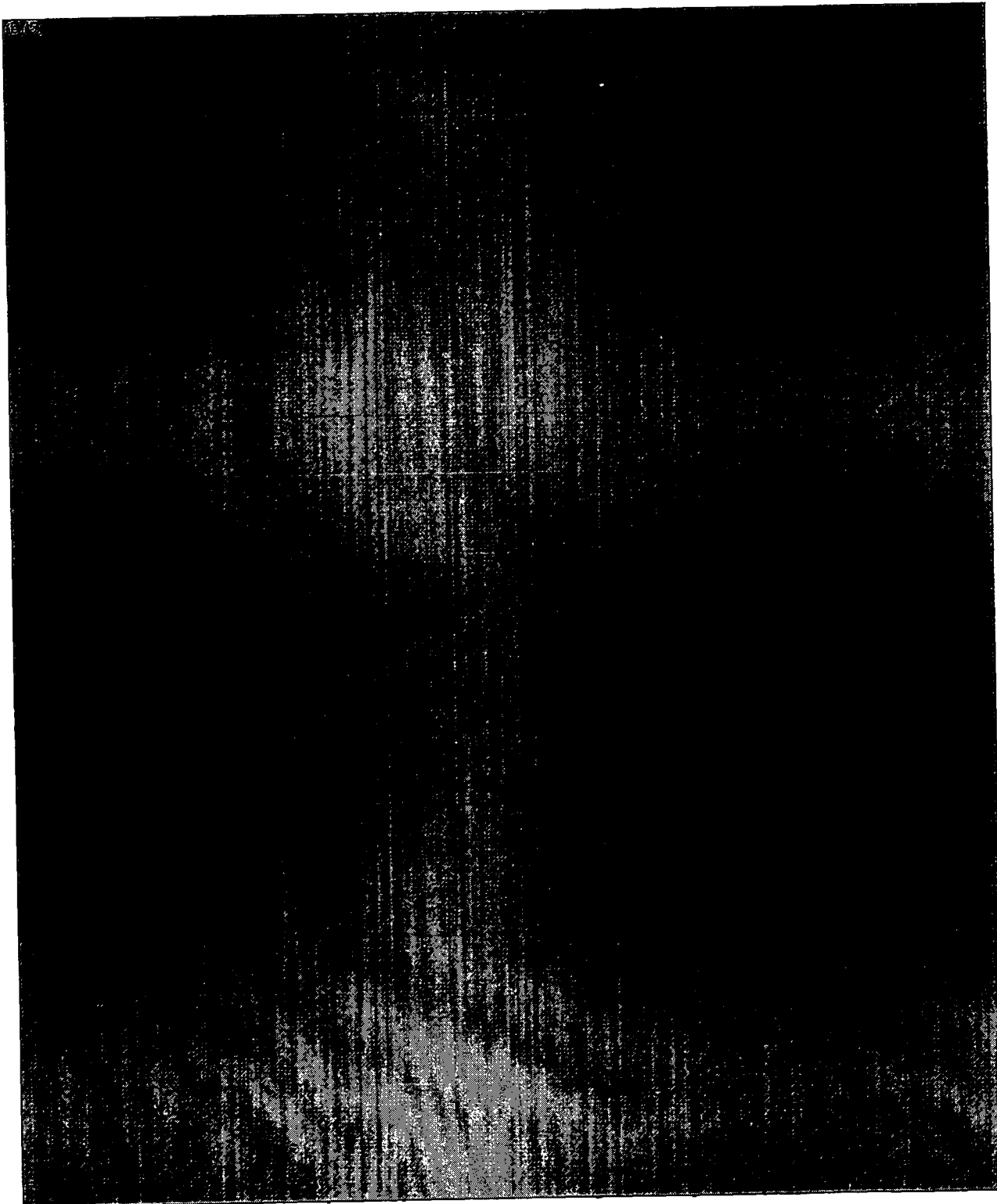
Best,  
Helen

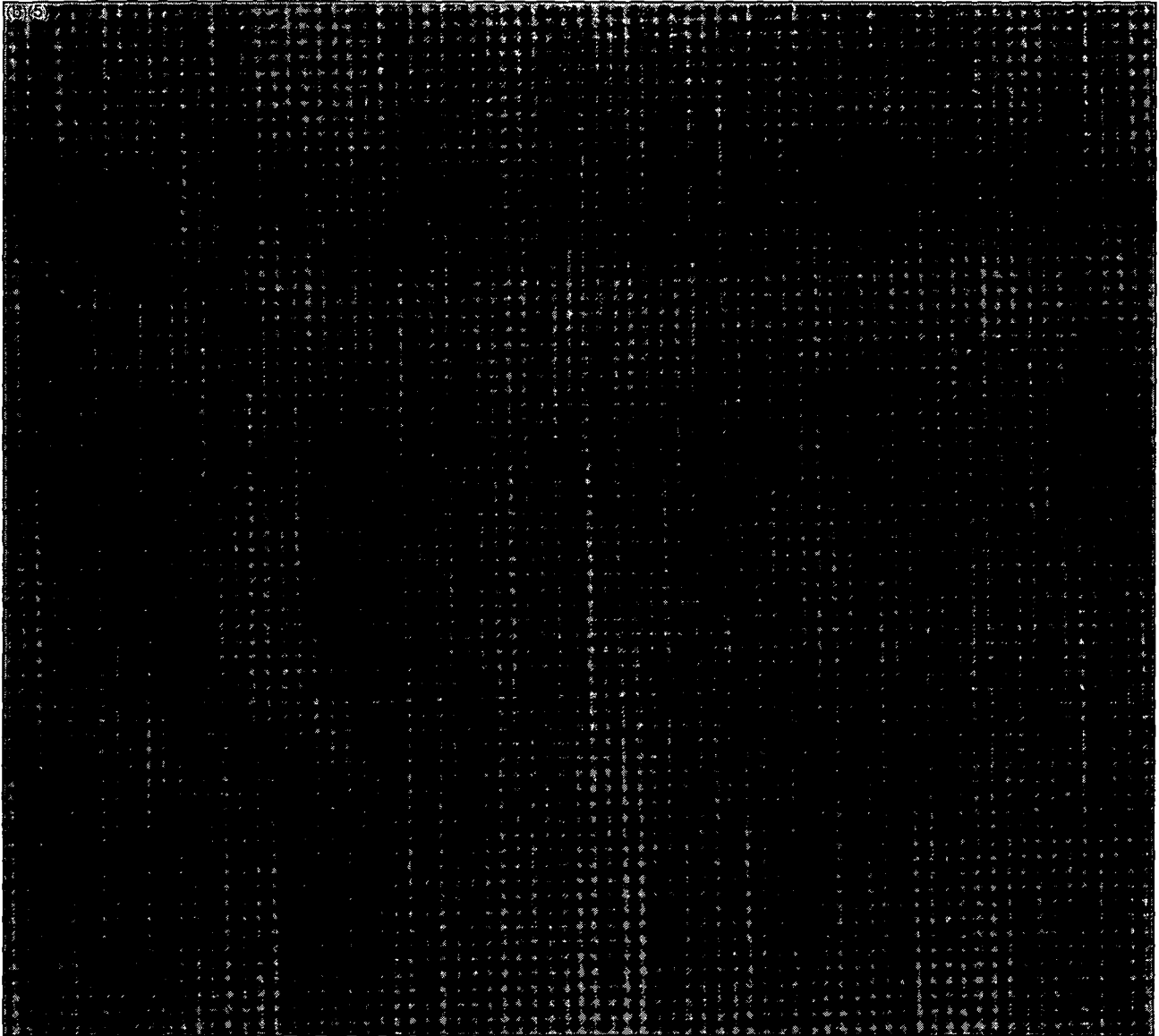
**Helen Ho, Lily Frey, and Patricia Shea**  
*Information Coordinators*  
Pacific Tsunami and Japan Earthquake Response Management Team  
RMTPACTSU\_INC@ofda.gov  


BC/7

**USG Talking Points**  
**Humanitarian Response to Japan Quake**

Updated 3/21/2011 @ 0930 EDT





**Scott, Michael**


---

**From:** RMTPACTSU\_ELNRC [RMTPACTSU\_ELNRC@ofda.gov]  
**Sent:** Tuesday, March 22, 2011 1:14 PM  
**To:** Scott, Michael  
**Subject:** RE: TA for Michael Scott

No problem. Have a good flight.

**From:** Scott, Michael [mailto:Michael.Scott@nrc.gov]  
**Sent:** Tuesday, March 22, 2011 12:13 PM  
**To:** RMTPACTSU\_ELNRC  
**Subject:** Re: TA for Michael Scott

I'm at iad awaiting flight. All ok - thx for your patience and help.

Sent from my NRC blackberry  
Michael Scott  


---

**From:** RMTPACTSU\_ELNRC <RMTPACTSU\_ELNRC@ofda.gov>  
**To:** Scott, Michael  
**Sent:** Tue Mar 22 11:02:31 2011  
**Subject:** FW: TA for Michael Scott

FYI. Katie Johnson is calling Mike to close the loop on this.

Surin McKenna  
Admin Coordinator  
Pacific Tsunami and Japan Earthquake Response Management Team  
USAID/DCHA/OIDA  
[Rmtpactsu\\_nc@ofda.gov](mailto:Rmtpactsu_nc@ofda.gov)  
202-712-0031

**From:** Friedman, Ara  
**Sent:** Tuesday, March 22, 2011 10:30 AM  
**To:** RMTPACTSU\_AC  
**Cc:** travel; [USAID@MANASSASTRAVEL.COM](mailto:USAID@MANASSASTRAVEL.COM)  
**Subject:** TA for Michael Scott

Hi Surin,

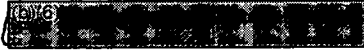
Please see attached for approved TA for Michael Scott leaving for Japan today. Manassas Travel will issue his ticket shortly. Please let us know if you have any questions. Thanks!

Ara Friedman  
Program Support Specialist  
USAID/Office of Foreign Disaster Assistance  
529 14th Street NW, Suite 700

BC/8

Washington, D.C. 20045

(202) 661-9308



**From:** RMTFACTSU\_ELNRC  
**To:** LIA01 Hoc; LIA11 Hoc; LIA02 Hoc; LIA07 Hoc; LIA08 Hoc; LIA12 Hoc; LIA04 Hoc; LIA03 Hoc; LIA06 Hoc; Harrington, Holly; Burnell, Scott; McIntyre, David; ET07 Hoc  
**Subject:** FYI: (SBU) 03.28.11 - USAID Administrator's Report on Japan Earthquake and Tsunami #15  
**Date:** Monday, March 28, 2011 5:44:19 PM  
**Attachments:** image001.png  
(SBU) 03.28.11 - USAID Admin Report on Japan EQ and Tsunami #15.pdf

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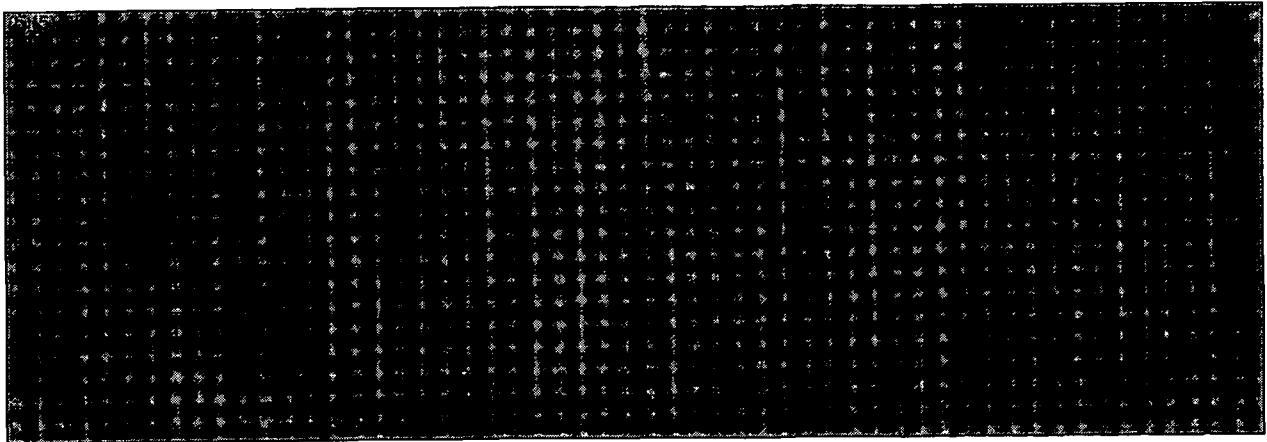
**Subject:** (SBU) 03.28.11 - USAID Administrator's Report on Japan Earthquake and Tsunami #15

Please find attached and pasted below the USAID Administrator's Report on the Japan Earthquake and Tsunami #15, dated March 28, 2011. *Information in this update is sensitive but unclassified (SBU) and designated for internal U.S. Government use only; please handle accordingly.*

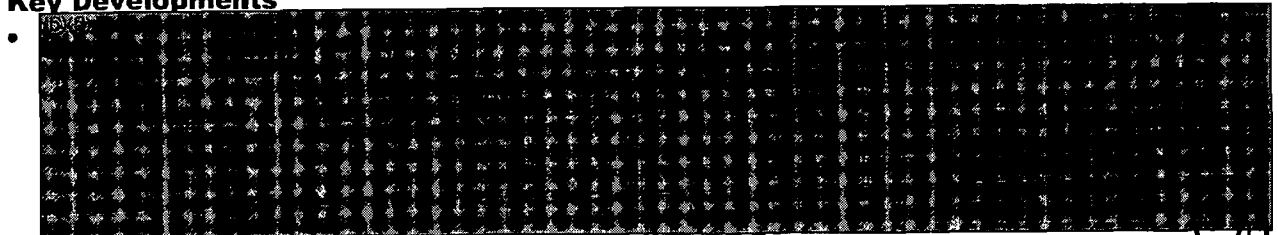
If you experience formatting issues in the text below, please refer to the attached document.  
To be added to or removed from this distribution list, please email [rmtfactsu\\_inc@ofda.gov](mailto:rmtfactsu_inc@ofda.gov)

## **Administrator's Report**

### **Japan Earthquake and Tsunami Humanitarian Update #15 March 28, 2011**



#### **Key Developments**



BC/9

- (SBU)

[REDACTED]

- (SBU)

[REDACTED]

- (SBU)

[REDACTED]

- 

[REDACTED]

#### Current Response

- 

[REDACTED]

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[REDACTED]

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[REDACTED]



• (SBU)

(S)

• (SBU)

(S)

### GoJ Response

• (S)

• (S)

• (S)

• (S)

### International Response

• (SBU)

(S)

• (SBU)

## USG Outreach

## USG Funding Announced and Committed To Date

Helen Ho and Lily Frey  
Information Coordinators  
Pacific Tsunami and Japan Earthquake Response Management Team  
[RMTPACTSU\\_INC@ofda.gov](mailto:RMTPACTSU_INC@ofda.gov)  
202-712-0039

[1] Figures remain preliminary and are expected to change.

[2] USAID plans to provide \$8 million in humanitarian assistance in response to the Japan earthquake and tsunami.

[3] Estimated expenditure as of March 26, 2011



**USAID**  
FROM THE AMERICAN PEOPLE

**From:** RMTFACTSU ELNRC  
**To:** LIA02 Hoc; LIA01 Hoc; LIA11 Hoc; LIA08 Hoc; LIA07 Hoc; LIA12 Hoc; LIA03 Hoc; LIA06 Hoc; FT07 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott  
**Subject:** FYI: (SBU) 04.01.11 - USAID Administrator's Report on Japan Earthquake and Tsunami #17  
**Date:** Saturday, April 02, 2011 9:28:58 AM  
**Attachments:** image001.png  
(SBU) 04.01.11 - USAID Admin Report on Japan EQ and Tsunami #17.pdf

---

**Subject:** (SBU) 04.01.11 - USAID Administrator's Report on Japan Earthquake and Tsunami #17

Please find attached and pasted below the USAID Administrator's Report on the Japan Earthquake and Tsunami #17, dated April 1, 2011. *Information in this update is sensitive but unclassified (SBU) and designated for internal U.S. Government use only; please handle accordingly.*

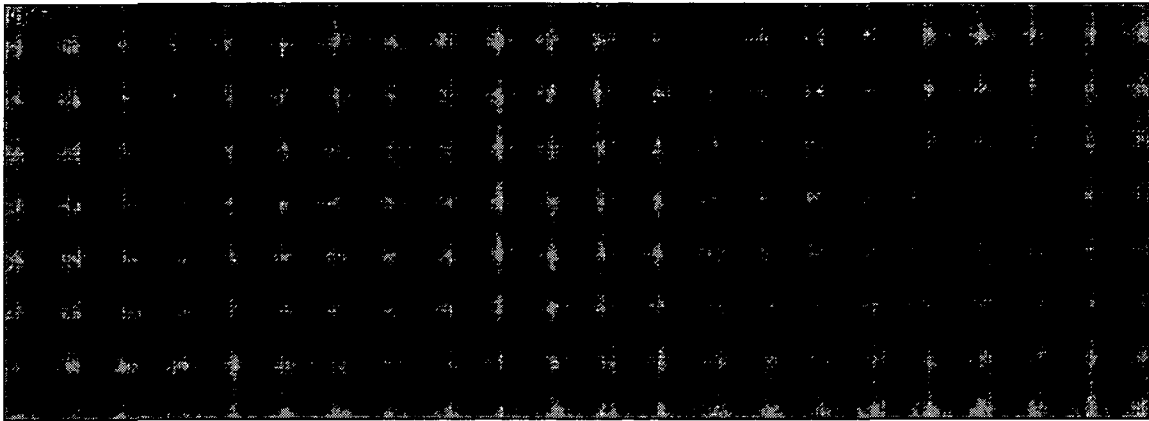
If you experience formatting issues in the text below, please refer to the attached document.

To be added to or removed from this distribution list, please email [rmtfactsu\\_inc@ofda.gov](mailto:rmtfactsu_inc@ofda.gov).

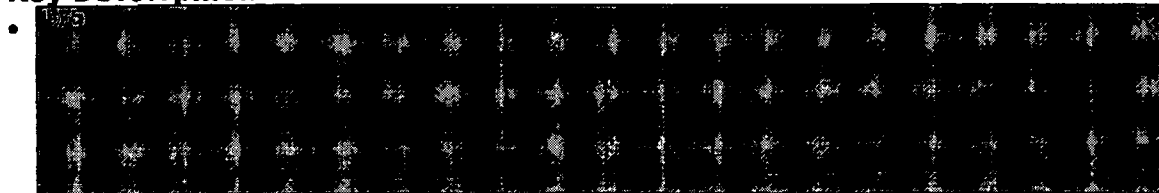


## **Administrator's Report**

### **Japan Earthquake and Tsunami Humanitarian Update #17 April 1, 2011**

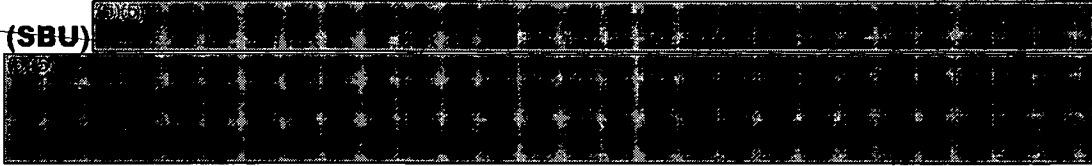


#### **Key Developments**

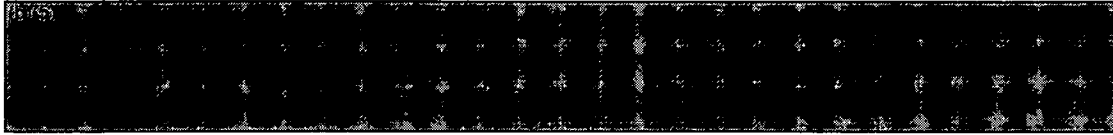


BC 10

- (SBU)

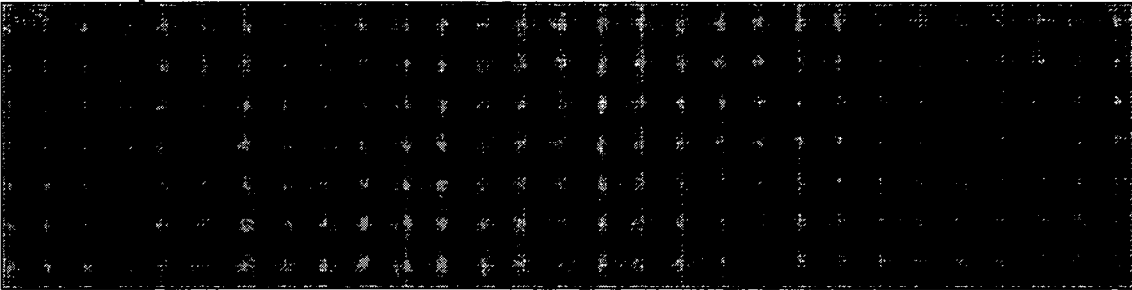


- 

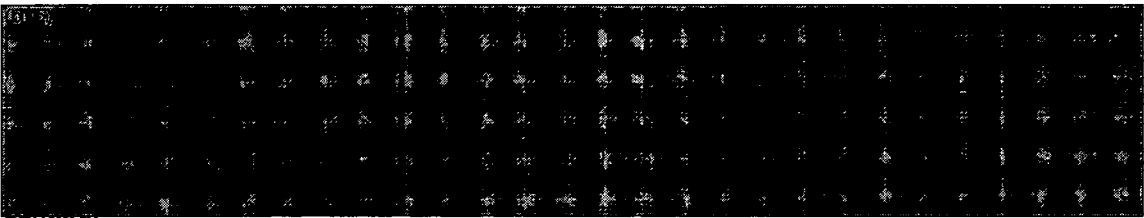


### Current Response

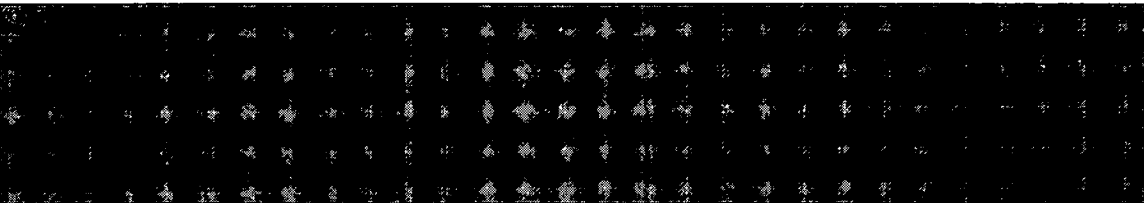
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- 

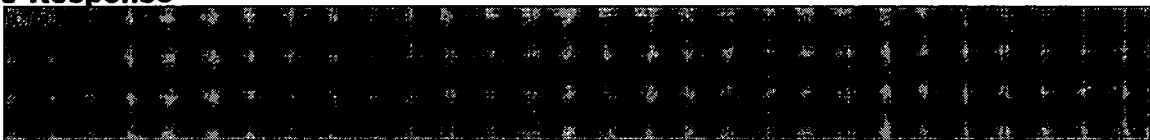


- 

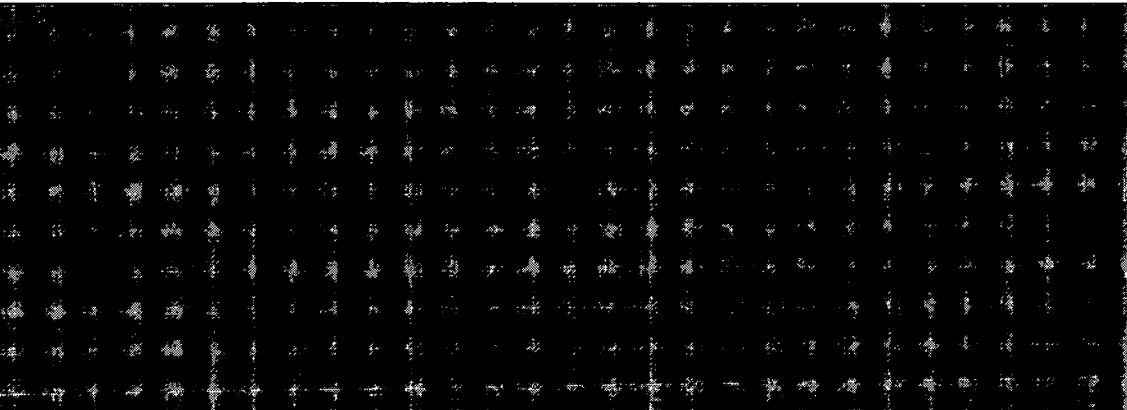


### GoJ Response

- 



- 



- [REDACTED]

- [REDACTED]

- [REDACTED]

- [REDACTED]

#### **International Response**

- [REDACTED]

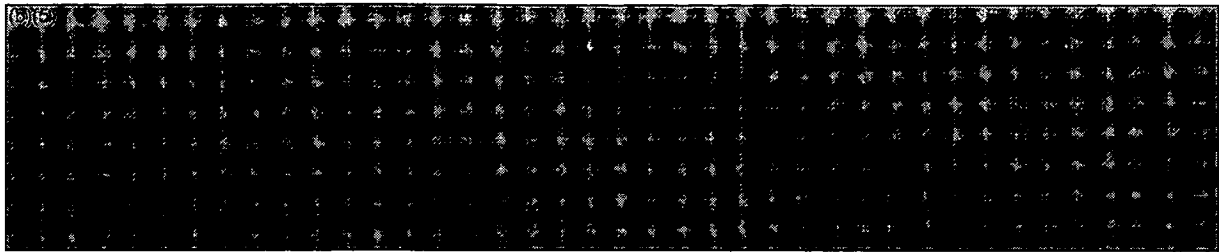
#### **USG Outreach**

- [REDACTED]

(b)(6) [REDACTED]

#### **USG Funding Announced and Committed To Date**

**Fiscal Year 2011**



Helen Ho and Lily Frey  
Information Coordinators  
Pacific Tsunami and Japan Earthquake Response Management Team  
[RMTFACTSU\\_INC@ofda.gov](mailto:RMTFACTSU_INC@ofda.gov)  
202-712-0039

- 
- [1] Figures remain preliminary and are expected to change.  
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[3] Estimated expenditure as of April 1, 2011.

**From:** RMTPACTSU\_ELNRC  
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**Subject:** FYI -- FW: ~~(SBU)~~ 04.05.11 - USAID Administrator's Report on Japan Earthquake and Tsunami #18  
**Date:** Tuesday, April 05, 2011 4:49:20 PM  
**Attachments:** ~~(SBU)~~ 04.05.11 - USAID Admin Report on Japan EQ and Tsunami #18.pdf

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**Sent:** Tuesday, April 05, 2011 4:46 PM  
**To:** undisclosed-recipients  
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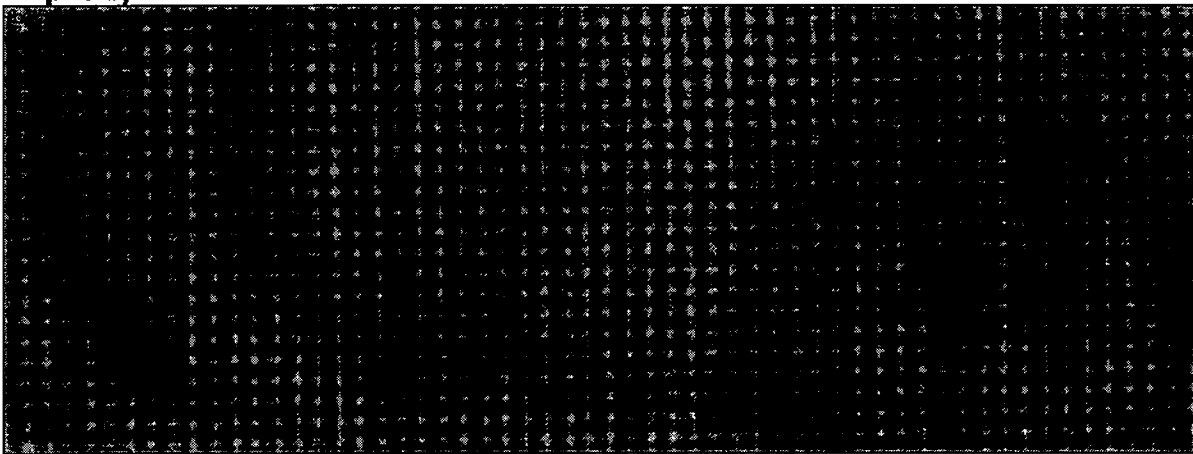
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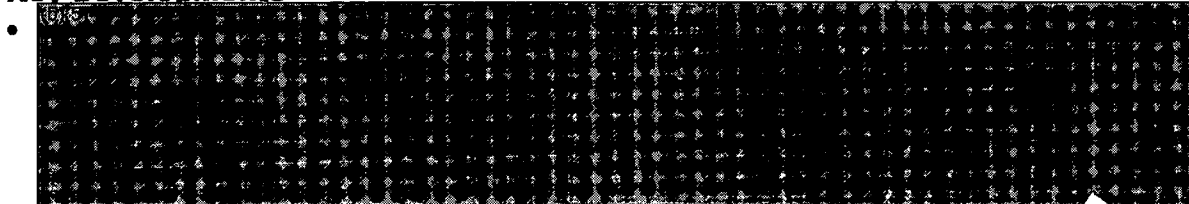


## Administrator's Report

### Japan Earthquake and Tsunami Humanitarian Update #18 April 5, 2011



#### Key Developments

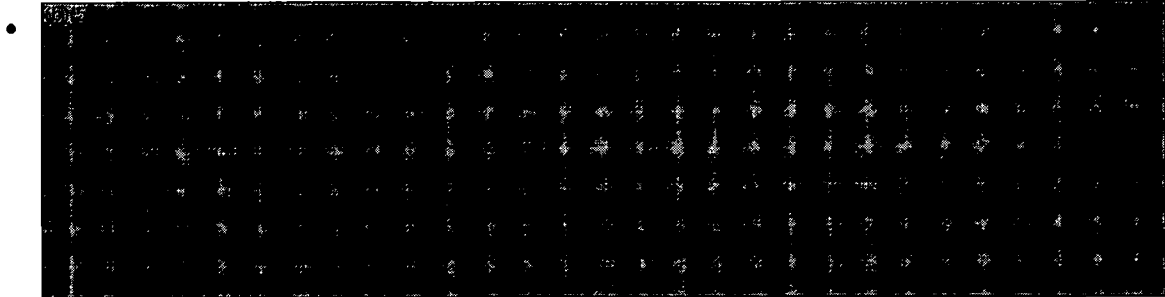
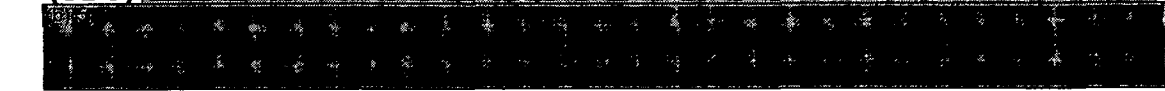


BC / 11

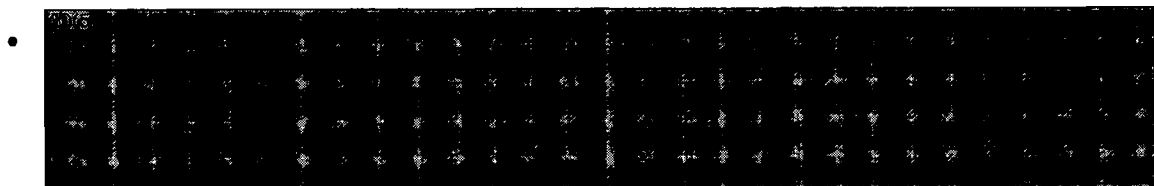
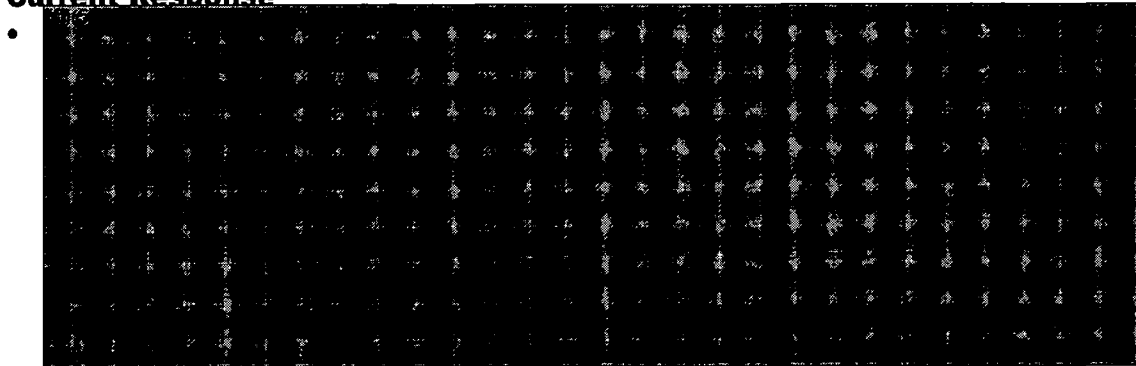


roads.

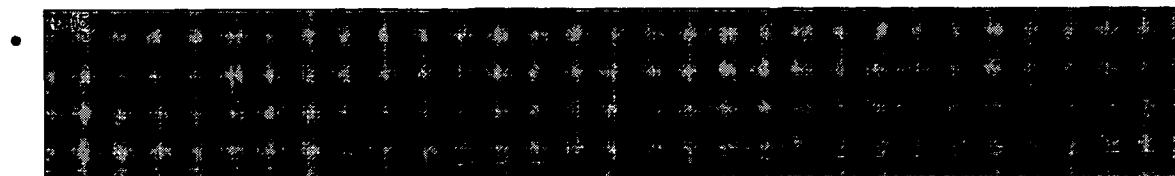
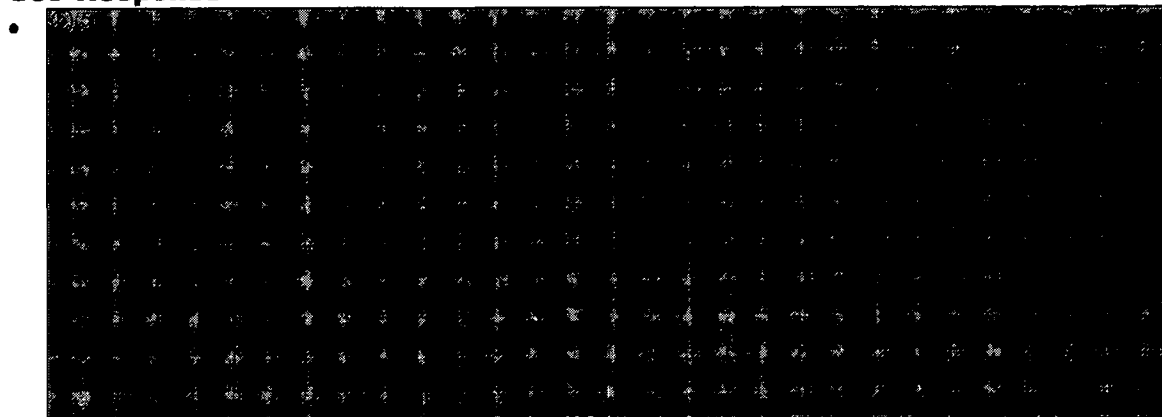
- (SBU)

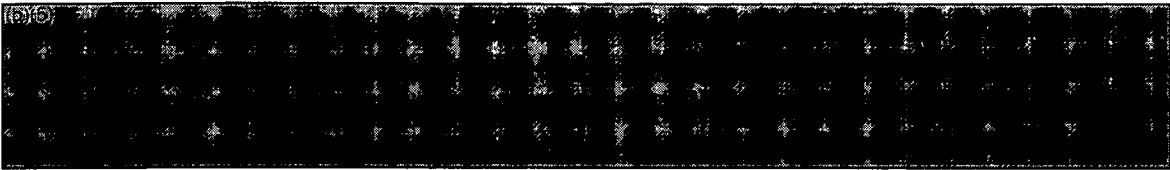


### Current Response

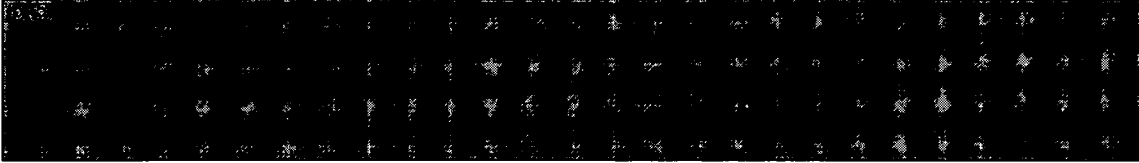


### GoJ Response

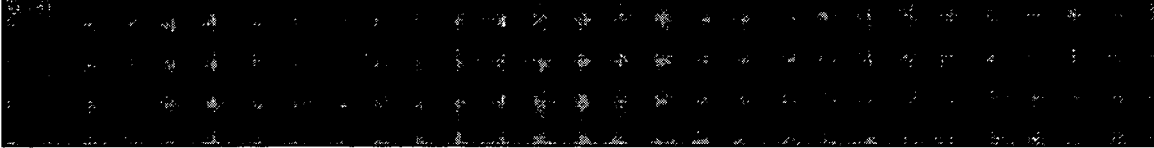


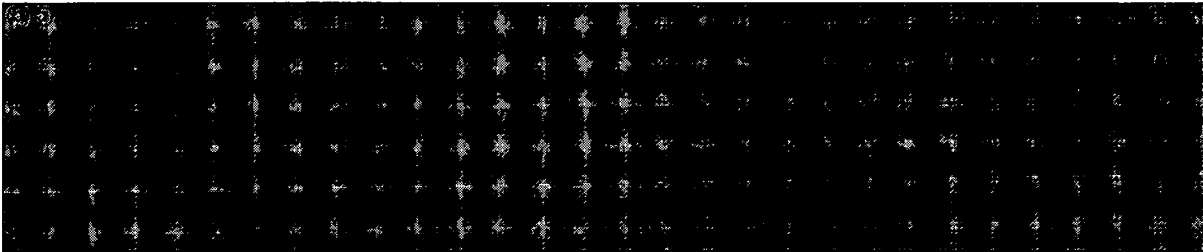
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### **International Response**

- 

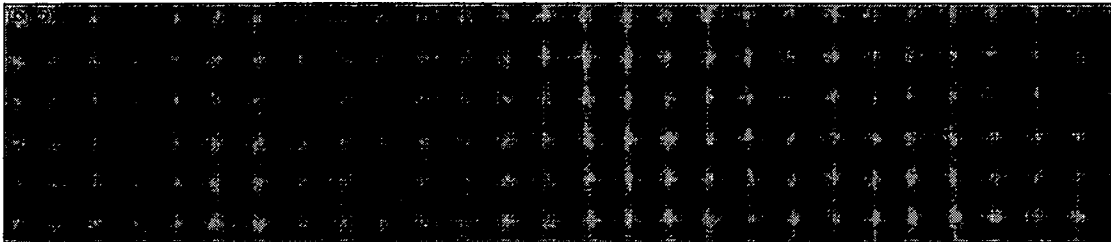
### **USG Outreach**

- 



### **USG Funding Announced and Committed To Date**

#### **Fiscal Year 2011**



Lily Frey  
Information Coordinator  
Pacific Tsunami and Japan Earthquake Response Management Team  
[RMTPACTSU\\_INC@ofda.gov](mailto:RMTPACTSU_INC@ofda.gov)  
202-712-0039

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**To:** LIA11 Hoc; LIA01 Hoc; LIA07 Hoc; LIA02 Hoc; LIA08 Hoc; LIA12 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott; ET07 Hoc  
**Subject:** FW: MITAM Japan EQ/Tsunami (April 6, 2011)  
**Date:** Wednesday, April 06, 2011 1:16:20 PM  
**Attachments:** PacTSU MITAM - April 6 2011.xlsx

---

**From:** Bock, Yoni  
**Sent:** Wednesday, April 06, 2011 4:57 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED] RMT PACTSU; DART PACTSU; [REDACTED]

[REDACTED]

[REDACTED] youngjm@state.gov  
**Subject:** MITAM Japan EQ/Tsunami (April 6, 2011)

All,

Attached is today's MITAM for April 6. Please note that no new missions have been requested/assigned in the past 24 hours.

Going forward, the MITAM will only be issued if new missions are tasked or when the remaining four (open) ongoing missions are completed.

Cheers,  
Yoni

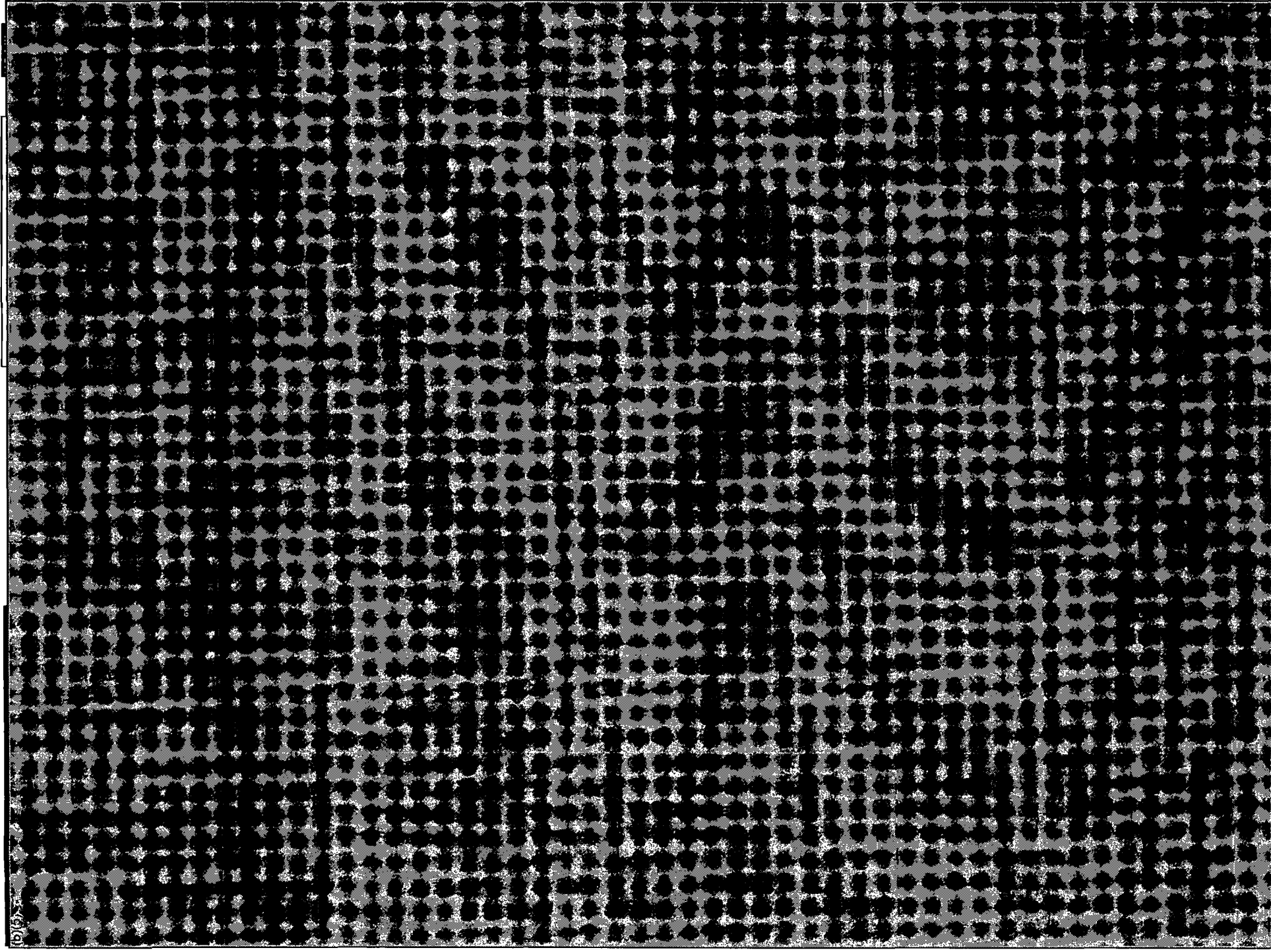
-----  
Mr. Yonahton Bock  
Military Liaison Officer / Civ-Mil Coordinator  
Japan Earthquake/Tsunami DART  
Email: [ybock@usaid.gov](mailto:ybock@usaid.gov)  
Blackberry: [REDACTED]

DNS at USFJ: 225-3397, 4110

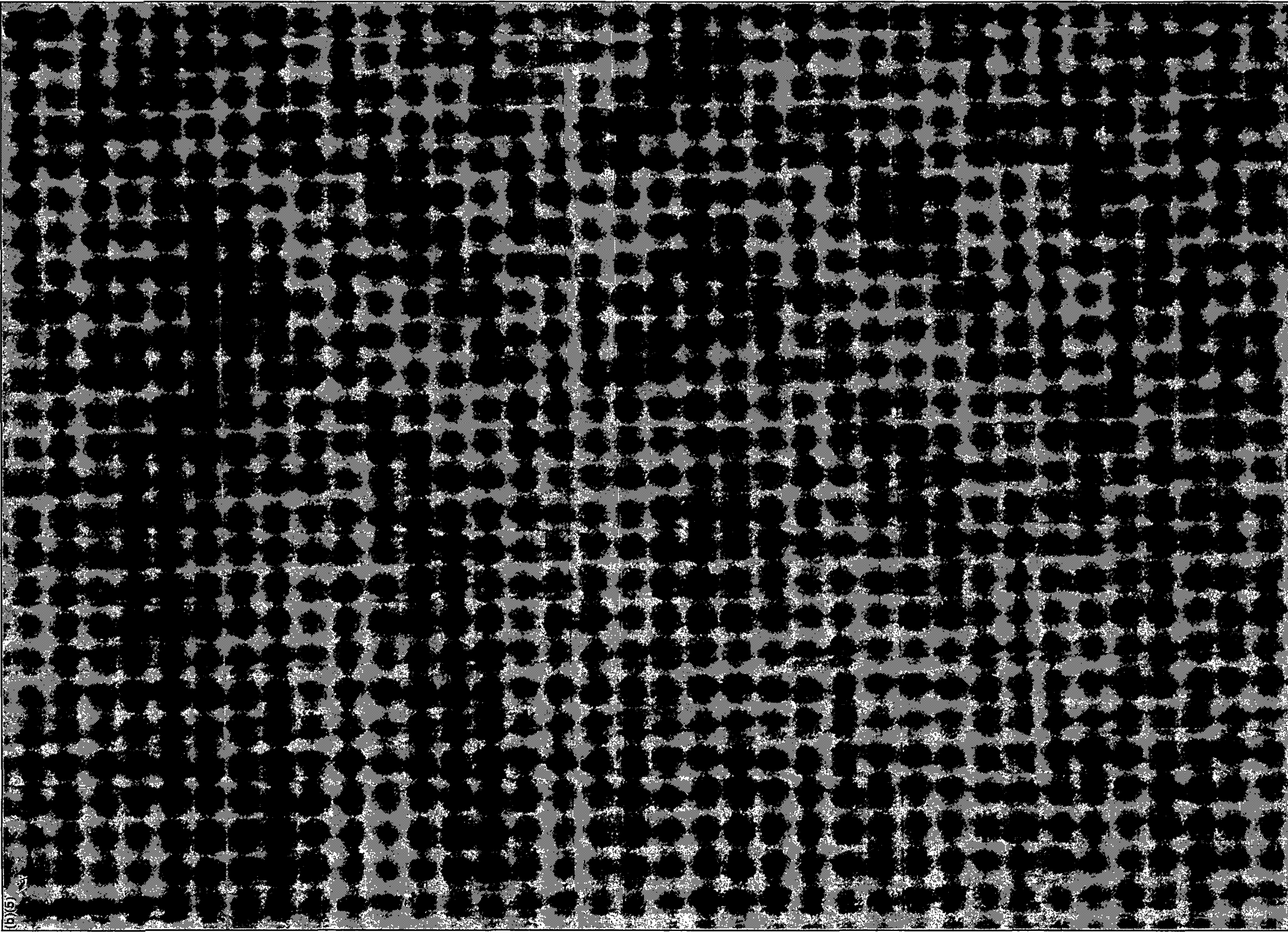
From US (or non DSN) (011 81) 425 522-511  
From Japan (non DSN) 0425 522-511  
after dial tone, ext [REDACTED]

Current Location: Yokota AB, Tokyo, Japan  
-----

Bcl12



(b)(5)



(b)(5)

**From:** Harrington, Holly  
**To:** Burnell, Scott; LIA06 Hoc; Hayden, Elizabeth  
**Cc:** Stahl, Eric  
**Subject:** RE: Possible SHORT-TERM ACTION (Due COB Today) -- Draft Q&A for Ambassador Roos  
**Date:** Wednesday, April 06, 2011 2:54:14 PM  
**Attachments:** image001.png

---

First off, nothing is attached to review.

Secondly, Eric Stahl, of OIP, is in Japan and was working on coordinating talking points with the Embassy. These might be the same (or duplicative.) I will cc him on this string.

Holly

**From:** Burnell, Scott  
**Sent:** Wednesday, April 06, 2011 2:42 PM  
**To:** LIA06 Hoc; Hayden, Elizabeth; Harrington, Holly  
**Subject:** RE: Possible SHORT-TERM ACTION (Due COB Today) -- Draft Q&A for Ambassador Roos

Tom;

I'm otherwise occupied, hopefully Holly or Beth can look them over. Thanks.

Scott

**From:** LIA06 Hoc  
**Sent:** Wednesday, April 06, 2011 2:39 PM  
**To:** Burnell, Scott  
**Cc:** ET05 Hoc; Brenner, Eliot; Hayden, Elizabeth; LIA02 Hoc; LIA08 Hoc; LIA06 Hoc; OST01 HOC  
**Subject:** FW: Possible SHORT-TERM ACTION (Due COB Today) -- Draft Q&A for Ambassador Roos

Scott – I have done a quick review of the attached. Few of the questions deal with the NRC role and seems consistent with our position. Commenting on these Q&A seems outside the scope of the EOC role of supporting the OST, although I would offer a “no comment” if pressed. However, this seems an issue that is better handled OPA to OPA (contact information below). If you agree could you please take and handle as a normal course of business.

Thanks

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

**From:** LIA02 Hoc  
**Sent:** Wednesday, April 06, 2011 2:20 PM  
**To:** LIA06 Hoc; LIA08 Hoc  
**Subject:** FW: Possible SHORT-TERM ACTION (Due COB Today) -- Draft Q&A for Ambassador Roos

BC/13

**From:** RMTPACTSU\_ELNRC [mailto:RMTPACTSU\_ELNRC@ofda.gov]  
**Sent:** Wednesday, April 06, 2011 2:07 PM  
**To:** LIA01 Hoc; LIA11 Hoc; LIA02 Hoc; LIA03 Hoc  
**Cc:** Kozal, Jason  
**Subject:** Possible SHORT-TERM ACTION (Due COB Today) -- Draft Q&A for Ambassador Roos

Hi there,

USAID has prepared the attached DRAFT Q&As for Ambassador Roos, and the NRC has been given an opportunity to comment. Please let me know if you would like to provide any comments.

Cheers,  
Leigh

**From:** RMTPACTSU\_INC  
**Sent:** Wednesday, April 06, 2011 1:47 PM  
**To:** RMTPACTSU\_ELNRC  
**Cc:** RMTPACTSU\_RM  
**Subject:** FW: PLEASE CLEAR BY COB: Draft Q&A for Ambassador Roos

Leigh,

FYI, we've received this for review. Hopefully your operations center has directly too. I'm having a look now but if you want to make any essential edits as part of the RMT approval process, please let me know.

Regards,

Lily

**From:** Gustafson, Rebecca (DCHA/OFDA) [mailto:rgustafson@USAID.GOV]  
**Sent:** Wednesday, April 06, 2011 1:16 PM  
**To:** RMTPACTSU\_RM  
**Cc:** RMTPACTSU\_INC  
**Subject:** FW: PLEASE CLEAR BY COB: Draft Q&A for Ambassador Roos

Made some edits. You guys have any more? (Could you also make sure that the NRC and HHS peeps are seeing these on their end?)

THANKS!

RG

**From:** Jackson, Gina (LPA/AA)  
**Sent:** Wednesday, April 06, 2011 12:26 PM  
**To:** Gustafson, Rebecca (DCHA/OFDA)  
**Subject:** FW: PLEASE CLEAR BY COB: Draft Q&A for Ambassador Roos



Any issues here?

Thanks,

Gina

*Gina Jackson*

*USAID Press Office*

*1300 Pennsylvania Ave N.W.*

*Washington D.C. 20523*

*phone: (202) 712-1917*

*fax: (202) 216-3034*



**USAID**  
FROM THE AMERICAN PEOPLE

**From:** McKellogg, Kelly E

**Sent:** Wednesday, April 06, 2011 12:03 PM

**To:** [REDACTED]

**Cc:** EAP-P-Office-DL

**Subject:** PLEASE CLEAR BY COB: Draft Q&A for Ambassador Roos

All,

Please clear the attached Q&A for use by Amb. Roos in his media engagements next week. Please send us your edits by COB.

Bob and Caitlin – if you feel other agencies should clear this, will you please help us direct this to the right folks?

Thanks,

**Kelly McKellogg**

Bureau of East Asian and Pacific Affairs

Office of Public Affairs (EAP/P)

202-647-1028

SBU—

This email is UNCLASSIFIED.

**From:** Quade, Christopher P

**Sent:** Wednesday, April 06, 2011 6:56 AM

**To:** PA Japan

**Subject:** Draft Q&A for Ambassador Roos

All,

For your review and clearance, attached please find the draft Q&A document for Ambassador Roos's upcoming (but still TBC) media engagements. As Leslie mentioned in her e-mail, the first such engagement will likely not take place until early next week.

These are the top line messages for the Ambassador to use in his interviews, but they might also be useful for Washington press guidance.

Many thanks,  
Christopher

\* \* \* \* \*

Christopher P. Quade  
Deputy Press Attaché  
U.S. Embassy Tokyo  
米国大使館報道室  
Office: 81-3-3224-5300  
<http://tokyo.usembassy.gov>

This email is UNCLASSIFIED.



**USAID**  
FROM THE AMERICAN PEOPLE

**From:** RMTFACTSU\_ELNRC  
**To:** LIA11 Hoc; LIA01 Hoc; LIA07 Hoc; LIA02 Hoc; LIA08 Hoc; LIA12 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott; ET07 Hoc  
**Subject:** FW: MITAM Japan EQ/Tsunami (April 7, 2011)  
**Date:** Thursday, April 07, 2011 2:14:26 PM  
**Attachments:** PacTSU MITAM - April 7 2011.xlsx

---

**From:** Bock, Yoni  
**Sent:** Thursday, April 07, 2011 6:46 AM  
**To:** [REDACTED]  
**Cc:** [REDACTED]

**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

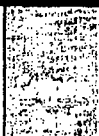
-----  
Mr. Yonahton Bock  
Military Liaison Officer / Civ-Mil Coordinator  
Japan Earthquake/Tsunami DART  
Email: [ybock@usaid.gov](mailto:ybock@usaid.gov)  
Blackberry: [REDACTED]

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 [REDACTED]

Current Location: Yokota AB, Tokyo, Japan  
-----

BC/14

JEQ ission #	Prioritization & Type				Mission Details		STATUS as of NOW					
	URGENT	Priority	Routine	Type	Consignee/ Requestor	Task	Submitted Date		Working / On -Going	Not Done/ Cancelled by Requestor	Not Done / specify Reason	Status Unknown (over 24)
001	(b)(6)											
002												
003												
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023												
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025												
026												
027												
028												



Formal Requests for US Military Assistance  
(MITAM Requests)

48

(b)(6)



**From:** RMTFACTSU\_ELNRC  
**To:** LIA02 Hoc; LIA01 Hoc; LIA11 Hoc; LIA08 Hoc; LIA07 Hoc; LIA12 Hoc; LIA03 Hoc; LIA06 Hoc; ET07 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott  
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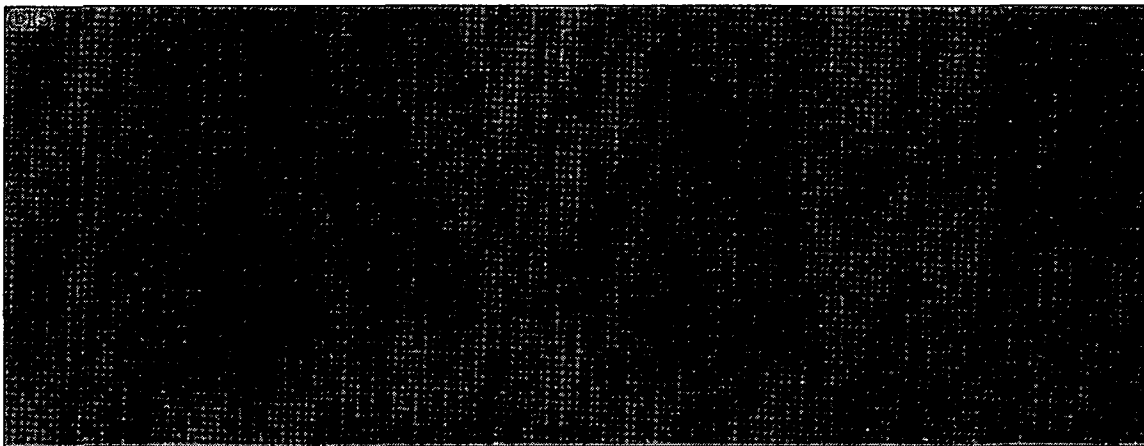
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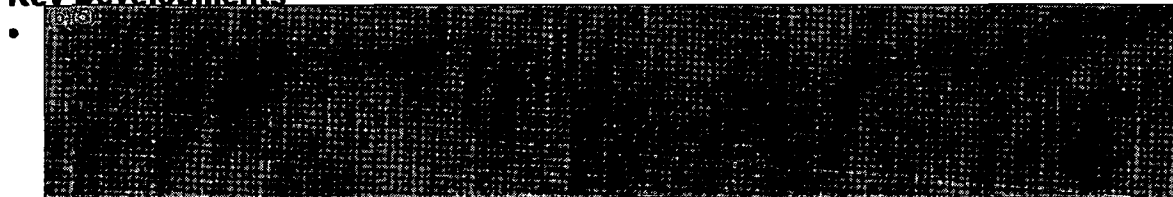


## **Administrator's Report**

### **Japan Earthquake and Tsunami Humanitarian Update #17 April 1, 2011**



#### **Key Developments**



BC / 15



- (SBU)

(b)(6)

- (b)(6)

### Current Response

- (b)(6)

- (b)(6)

- (b)(6)

### GoJ Response

- (b)(6)

- (b)(6)

- (b) (5) [REDACTED]

- (b) (5) [REDACTED]

- (b) (5) [REDACTED]

- (b) (5) [REDACTED]

#### **International Response**

- [REDACTED]

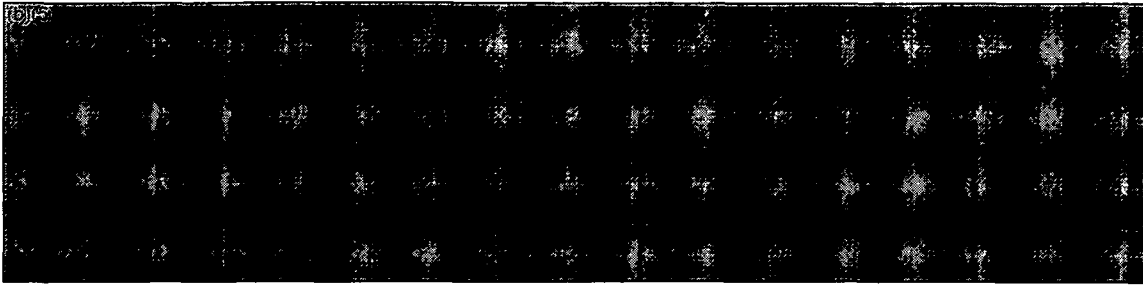
#### **USG Outreach**

- [REDACTED]

(b) (5) [REDACTED]

#### **USG Funding Announced and Committed To Date**

#### **Fiscal Year 2011**



Helen Ho and Lily Frey  
Information Coordinators  
Pacific Tsunami and Japan Earthquake Response Management Team  
[RMTPACTSU\\_INC@ofda.gov](mailto:RMTPACTSU_INC@ofda.gov)  
202-712-0039

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[3] Estimated expenditure as of April 1, 2011.



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**To:** LIA11 Hoc; LIA01 Hoc; LIA07 Hoc; LIA02 Hoc; LIA08 Hoc; LIA12 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott; ET07 Hoc  
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## Administrator's Report

### Japan Earthquake and Tsunami Humanitarian Update #18 April 5, 2011

(b)(5)

### Key Developments

(b)(5)

BC/16

(b)(5)

- **(SBU)** (b)(5)

(b)(5)

(b)(5)

### **Current Response**

(b)(5)

(b)(5)

### **GoJ Response**

(b)(5)

(b)(5)

(b)(5)

### **International Response**

(b)(5)

### **USG Outreach**

(b)(5)

### **USG Funding Announced and Committed To Date**

#### **Fiscal Year 2011**

(b)(5)

Lily Frey  
Information Coordinator  
Pacific Tsunami and Japan Earthquake Response Management Team  
[RMTPACTSU\\_INC@ofda.gov](mailto:RMTPACTSU_INC@ofda.gov)  
202-712-0039

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(31) Estimated expenditure as of April 5, 2011.



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**To:** LIA06 Hoc; LIA11 Hoc; LIA01 Hoc; LIA07 Hoc; LIA02 Hoc; LIA08 Hoc; LIA12 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott; ET07 Hoc  
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**Date:** Thursday, April 07, 2011 2:23:44 PM  
**Attachments:** Pacific Tsunami DART Safety and Security Plan.docx  
Pacific Tsunami Safety and Security Plan.xlsx

---

**From:** Hughart, Joe  
**Sent:** Wednesday, April 06, 2011 10:19 PM  
**To:** RMT\_FACTSU  
**Subject:** FW: DART FACTSU Updated Safety and Security Plan Apr 7 2011

Joe Hughart  
CAPT USPHS  
USAID OFDA MLU  
CBRNE Officer  
(b)(6)

**From:** Hughart, Joe  
**Sent:** Wed 4/6/2011 9:02 PM  
**To:** DART\_FACTSU  
**Cc:** RMTFACTSU\_CORE@ofda.gov; Cohen, Harold(GC/DCHA) [USAID]; Catlin, Steve(DCHA/OFDA) [USAID]; Bardwell, Shawn(DCHA/OFDA) [USAID]; Kearns, Jason (DCHA/OTI) [USAID]  
**Subject:** DART FACTSU Updated Safety and Security Plan Apr 7 2011

Word document (general provisions): no changes.

Excel spreadsheet: DOE, NRC & DART comings & goings updated; rad monitoring and dosimetry updated.

Best,

Joe Hughart  
CAPT USPHS  
USAID OFDA MLU  
CBRNE Officer  
(b)(6)

BA/17

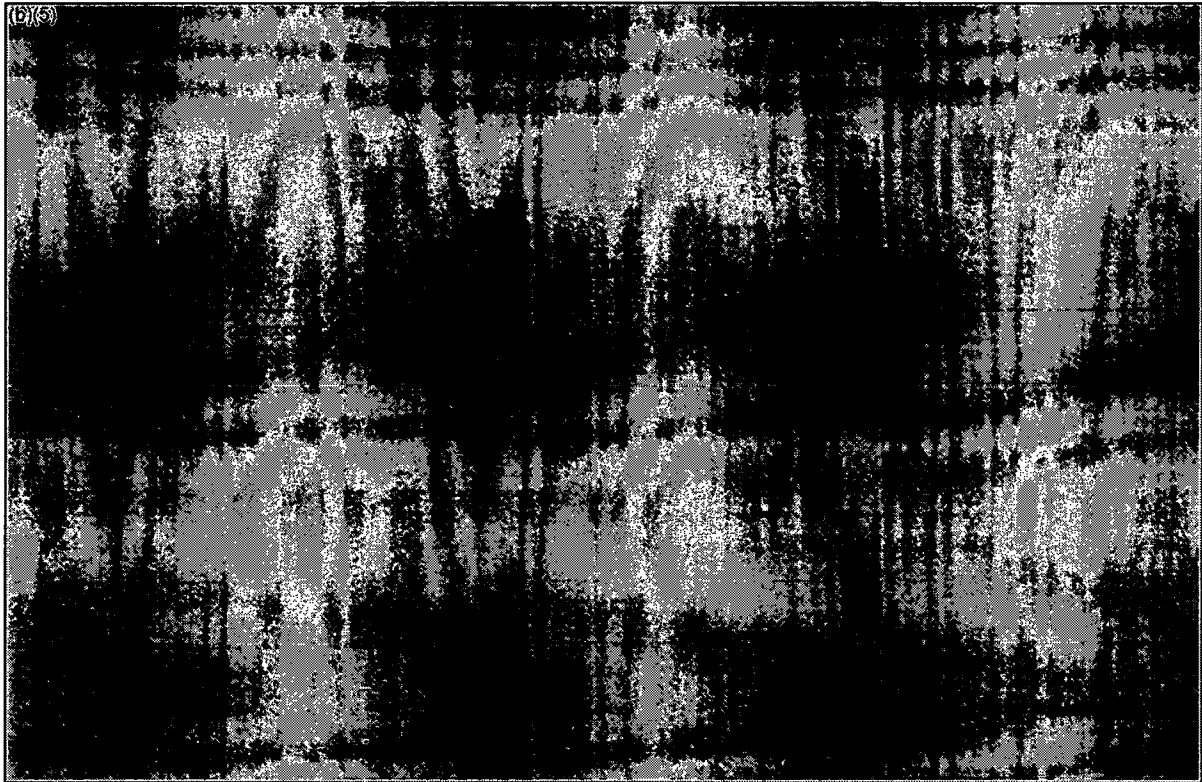


## PACIFIC TSUNAMI DART SAFETY AND SECURITY PLAN

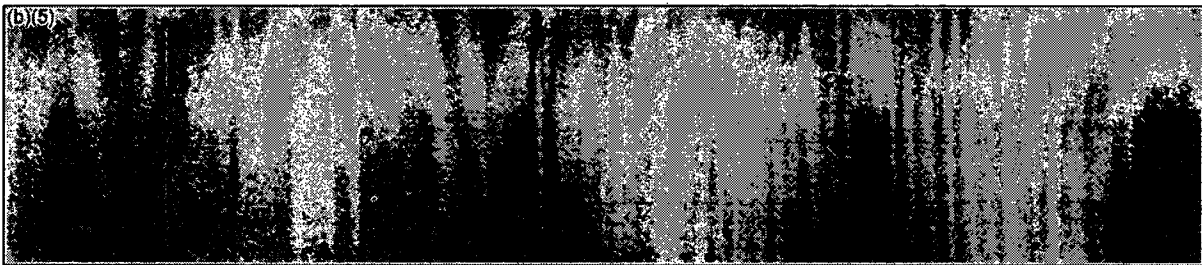
**Captain Joe Hughart, MS, MPH, REHS, RHSP**

**U.S. Public Health Service**

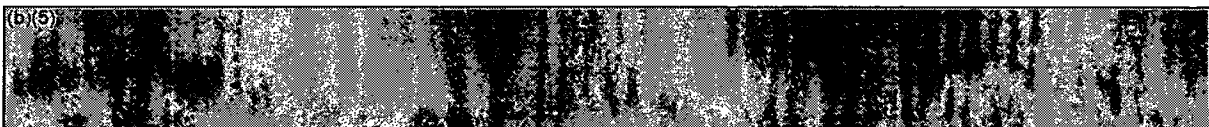
### SITUATION



### REGULATORY BASIS FOR THIS PLAN



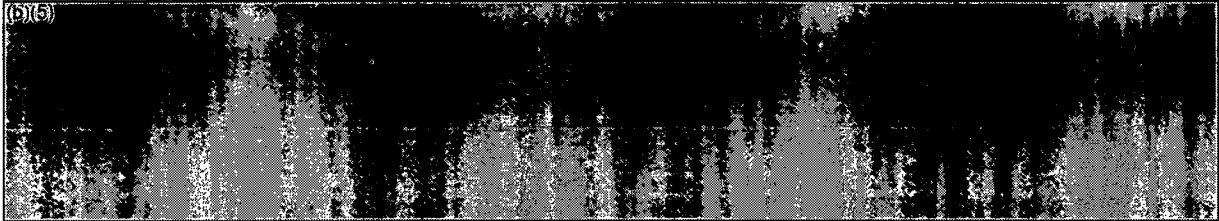
### FORMATTING AND GRAPHICS



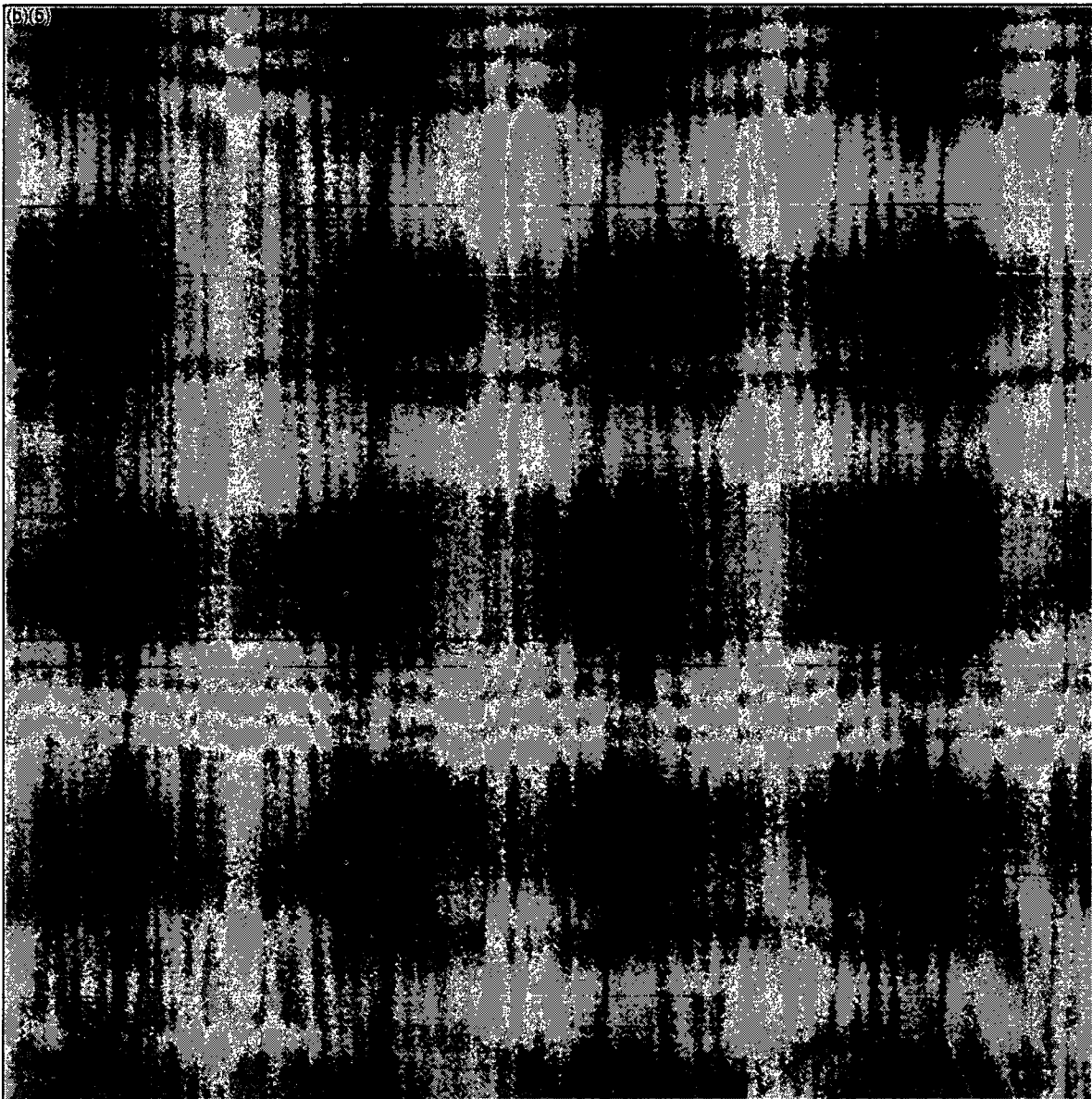
**ORGANIZATONAL STRUCTURE**

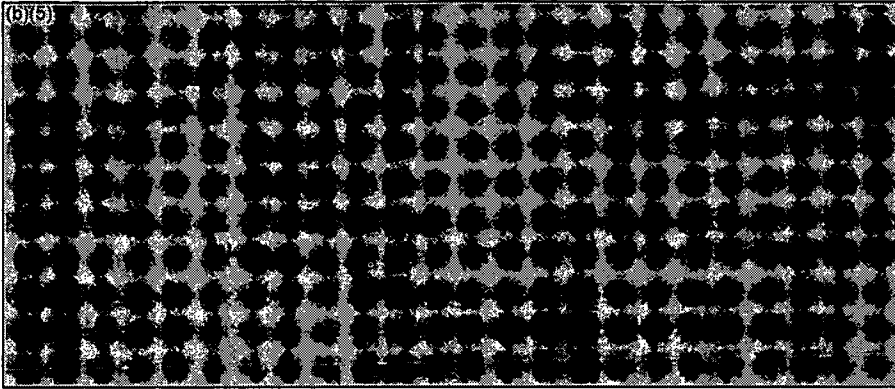
[29 CFR 1910.120(b)(1)(ii)(A)]

**ROLES, LINES OF AUTHORITY AND LINES OF COMMUNICATION**



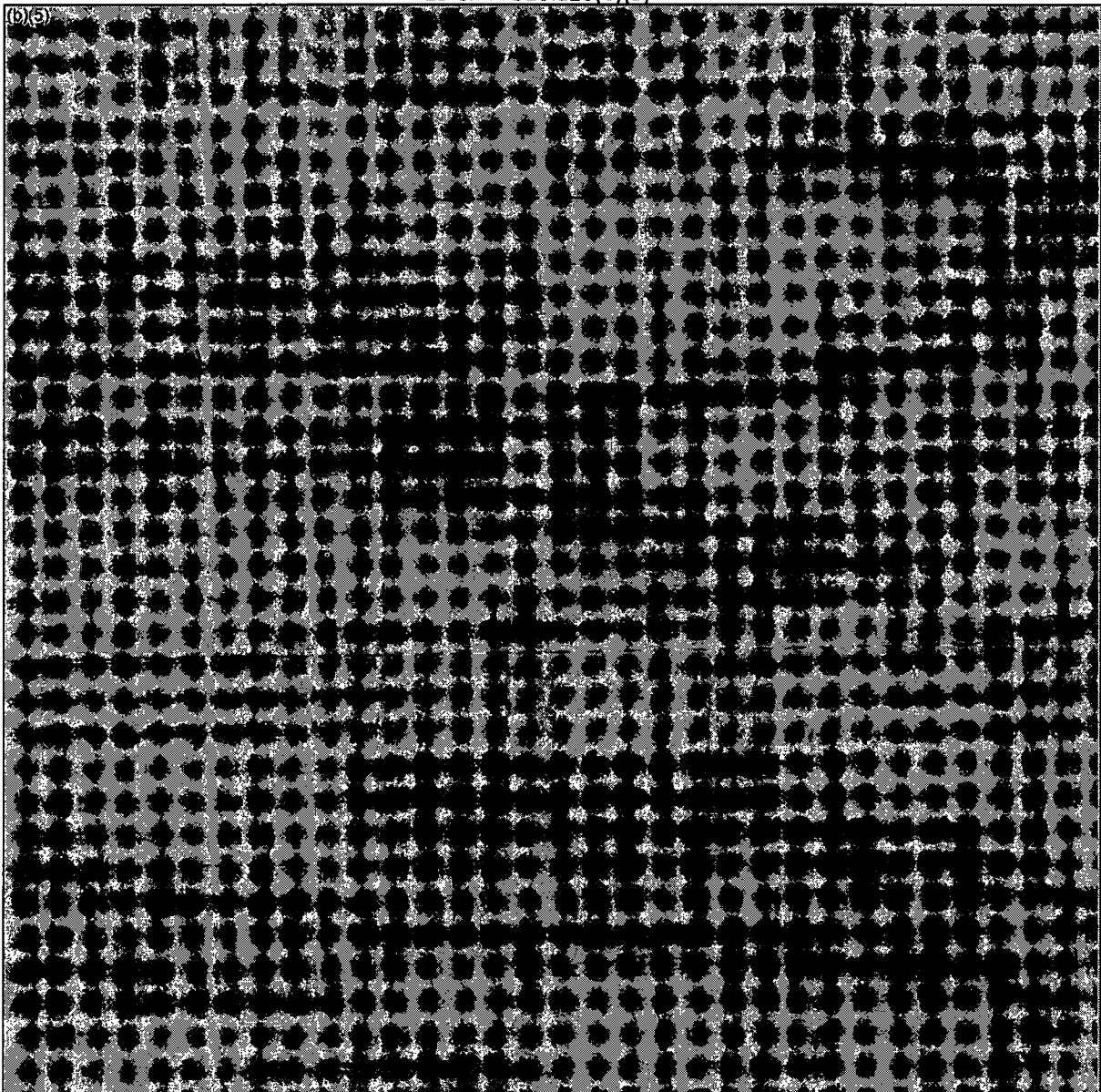
**SENIOR RESPONSE MANAGEMENT TEAM**

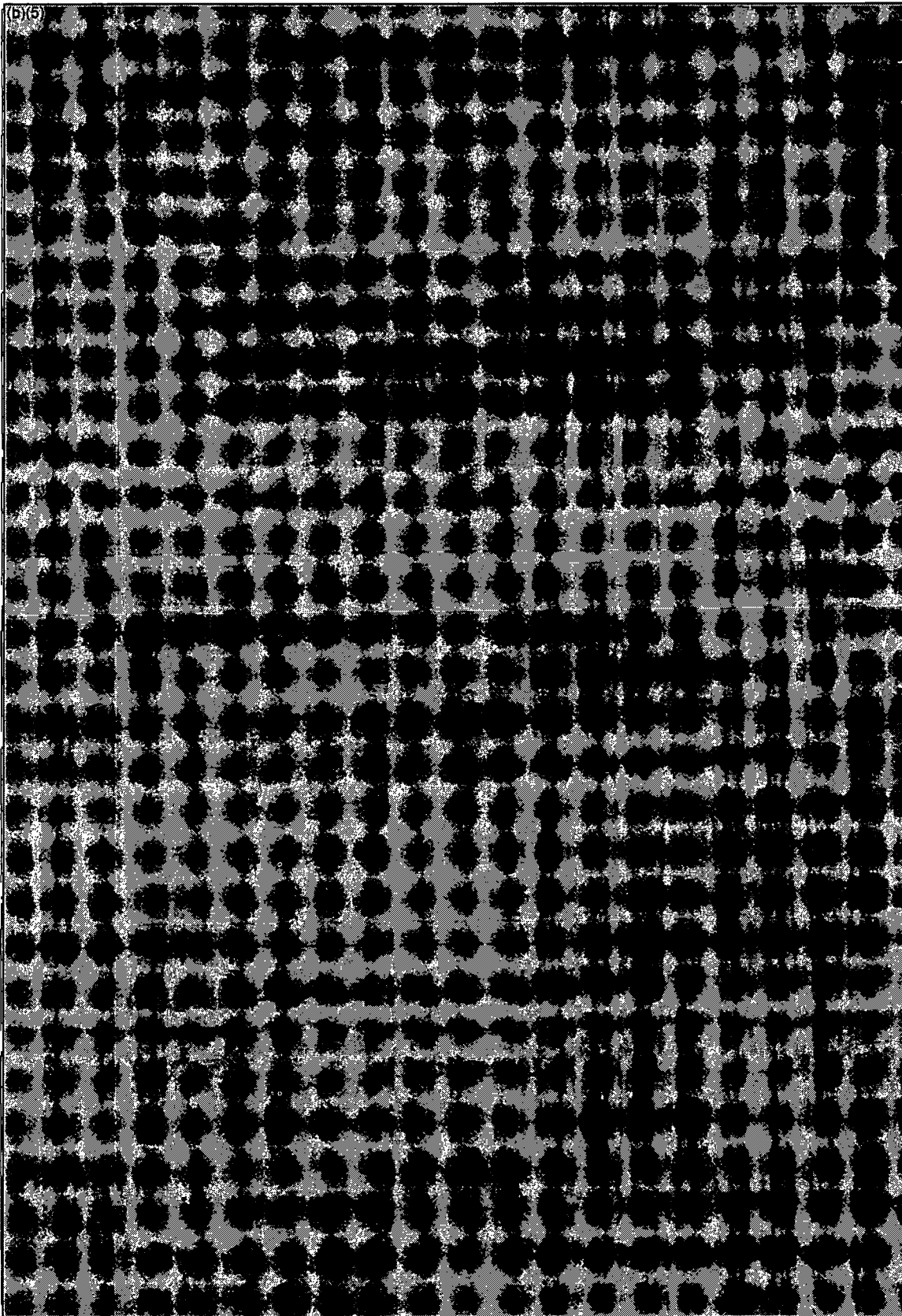




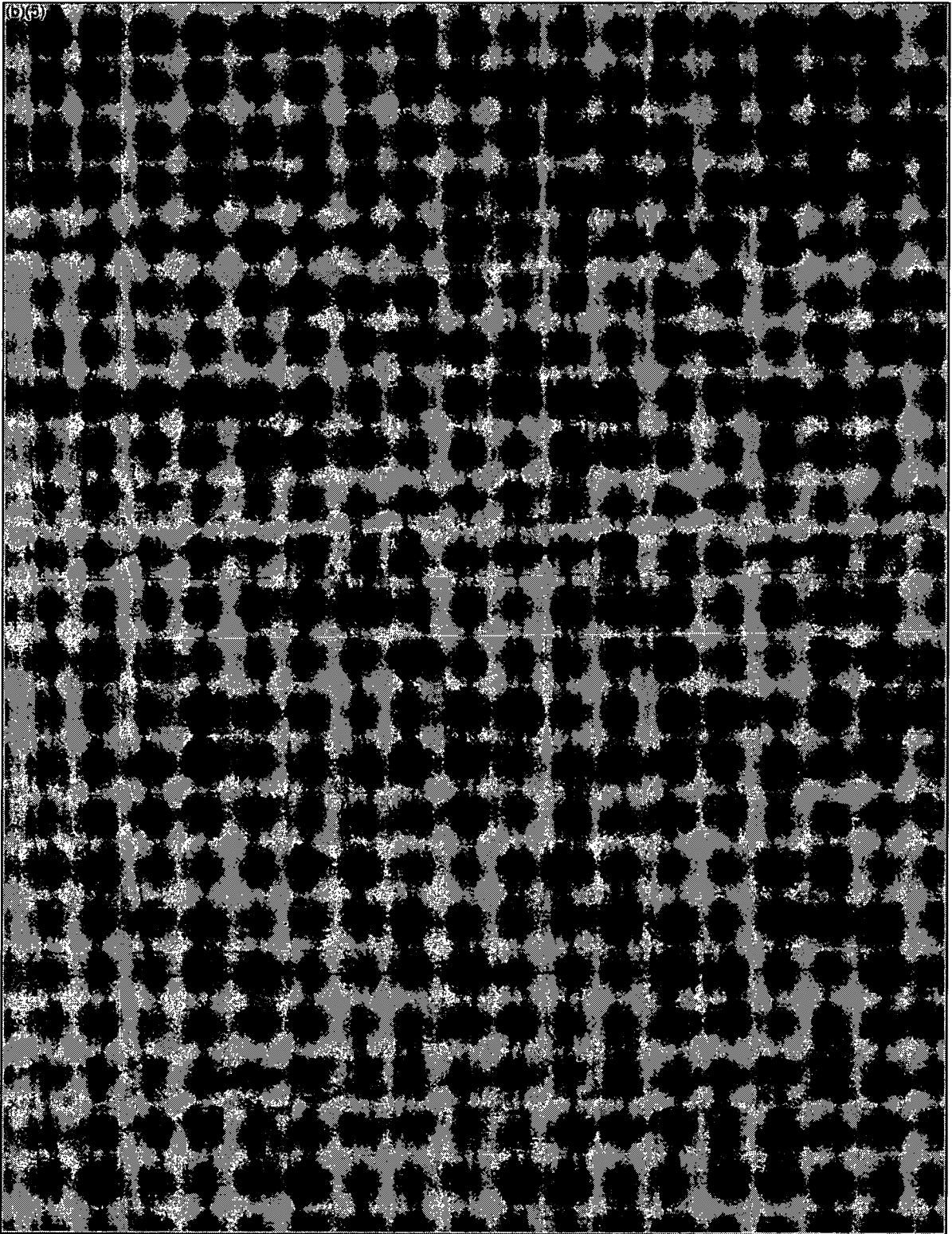
**COMPREHENSIVE WORKPLAN**

29 CFR 1910.120(b)(3)



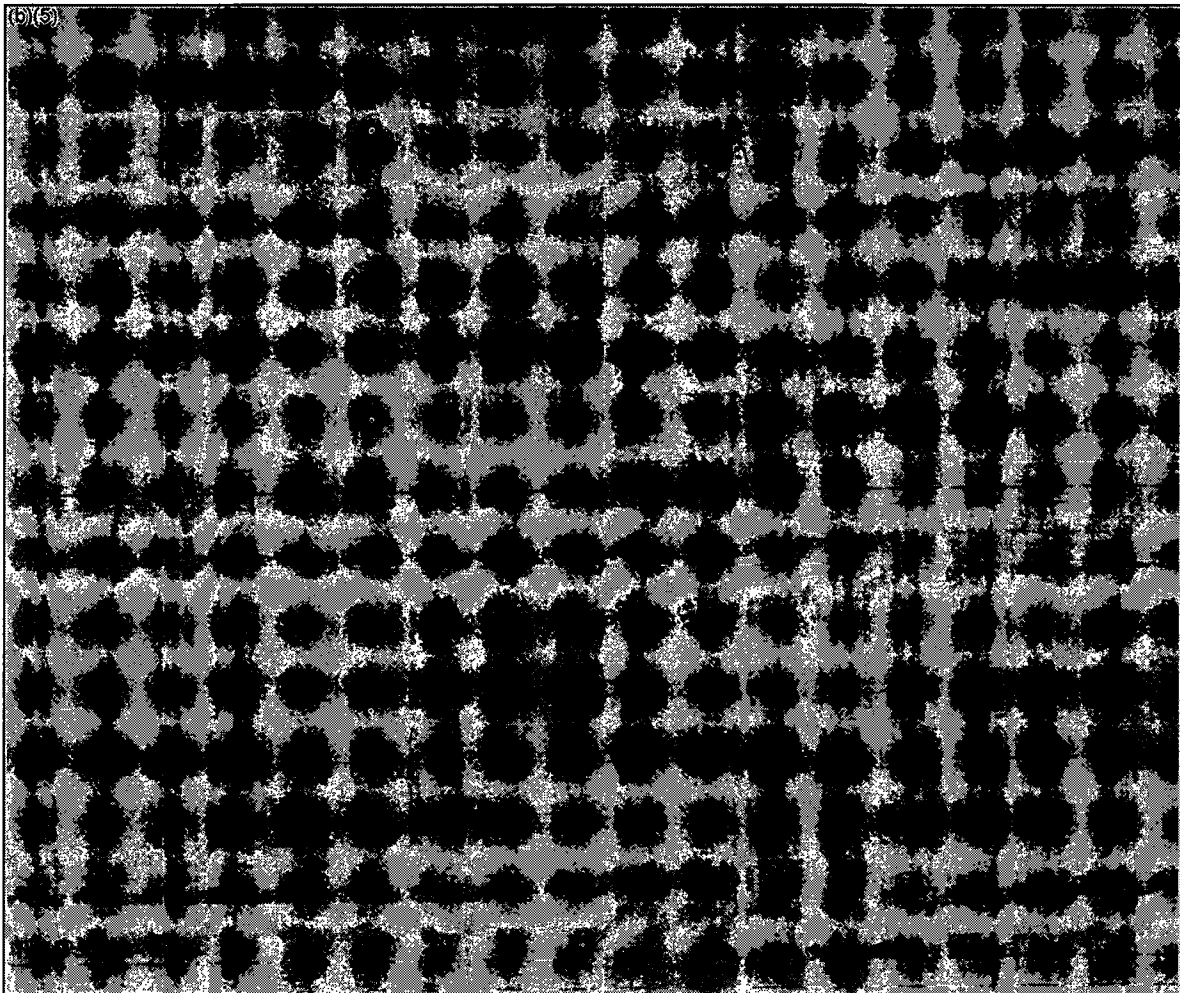






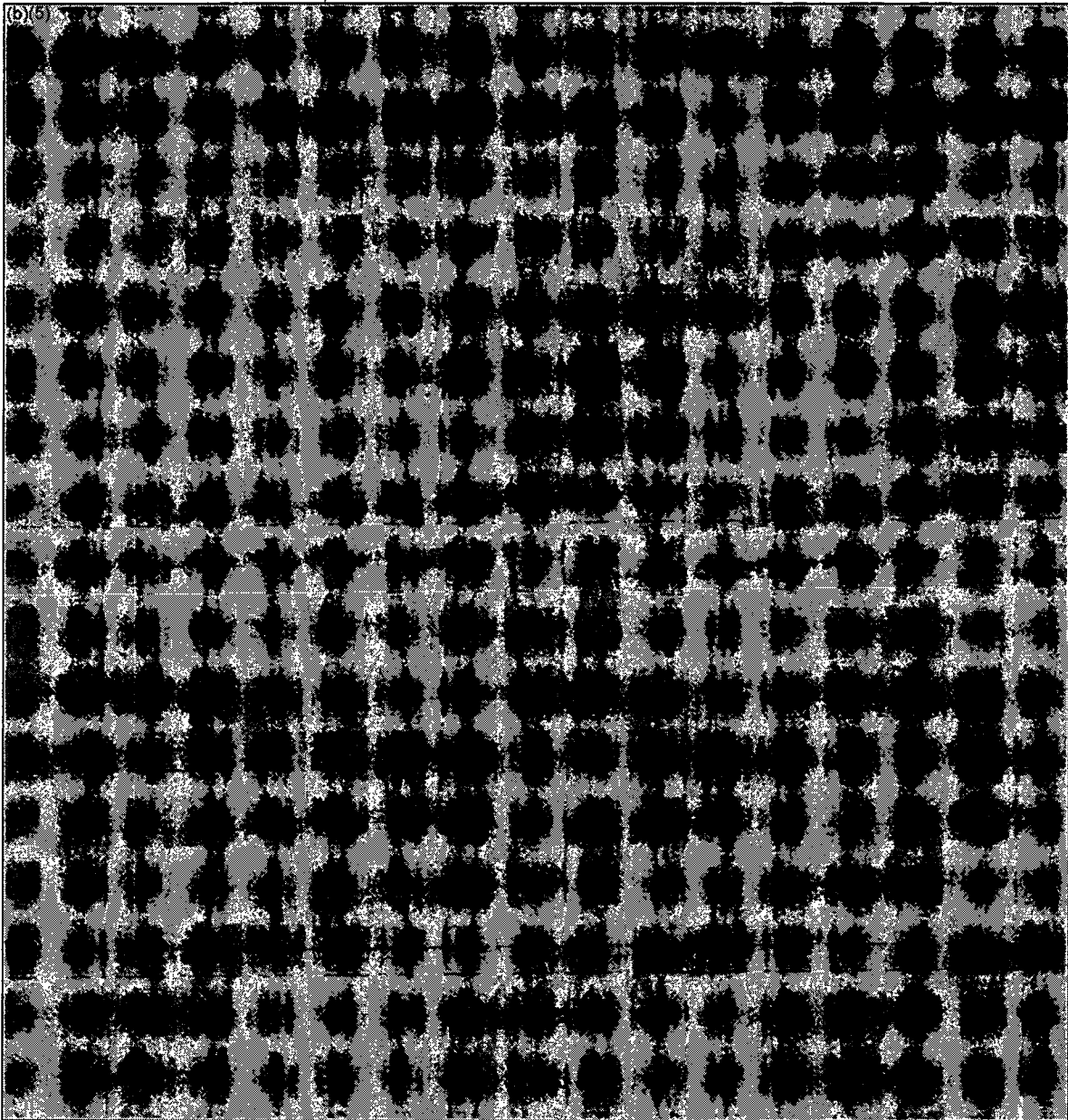
**SITE-SPECIFIC SAFETY AND HEALTH PLAN**  
**29 CFR 1910.120(b)(4)**

**SAFETY HAZARD AND RISK ANALYSIS**  
**29 CFR 1910.120(b)(4)(ii)(A)**



**EMPLOYEE TRAINING ASSIGNMENTS**

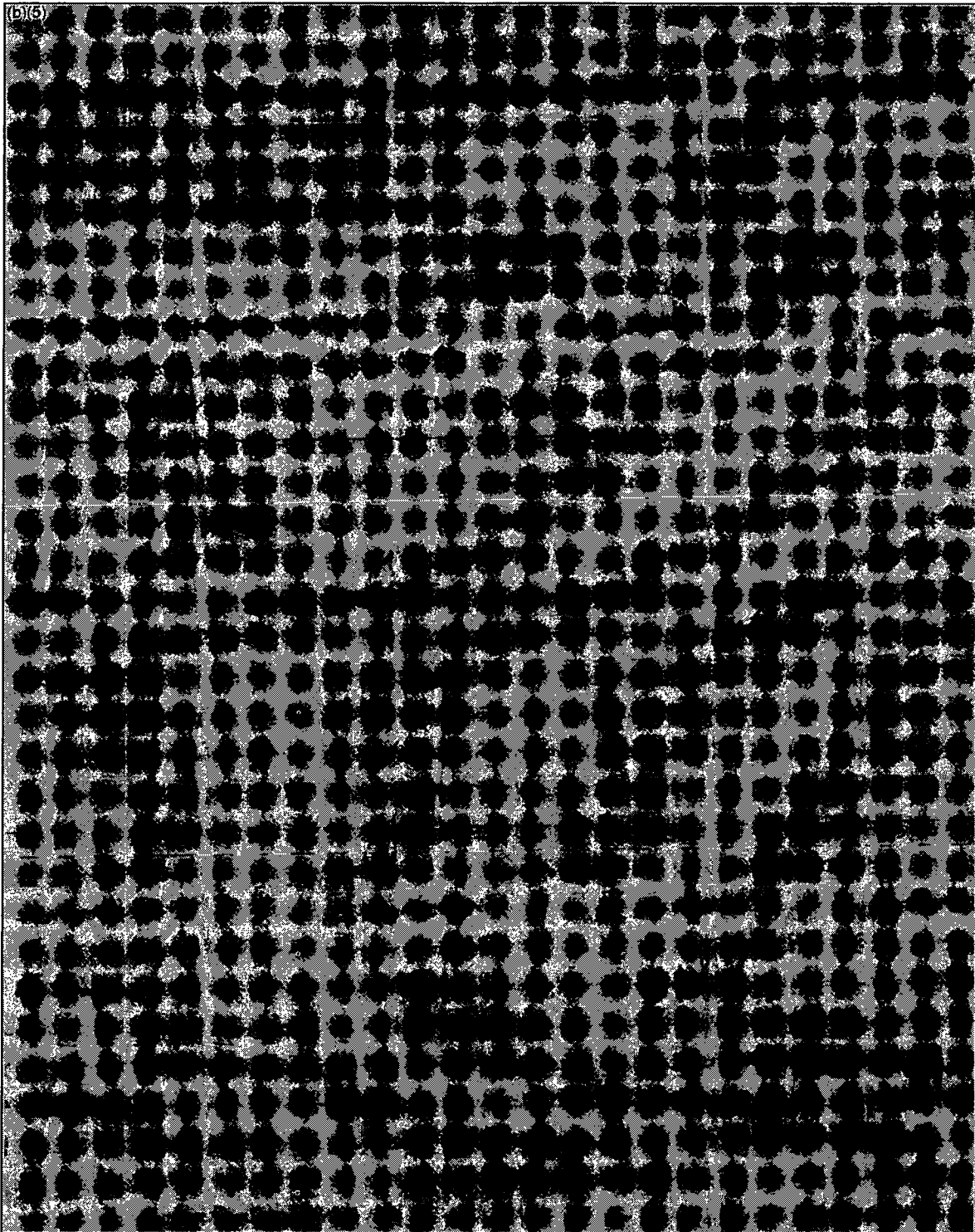
29 CFR 1910.120(b)(4)(ii)(B)





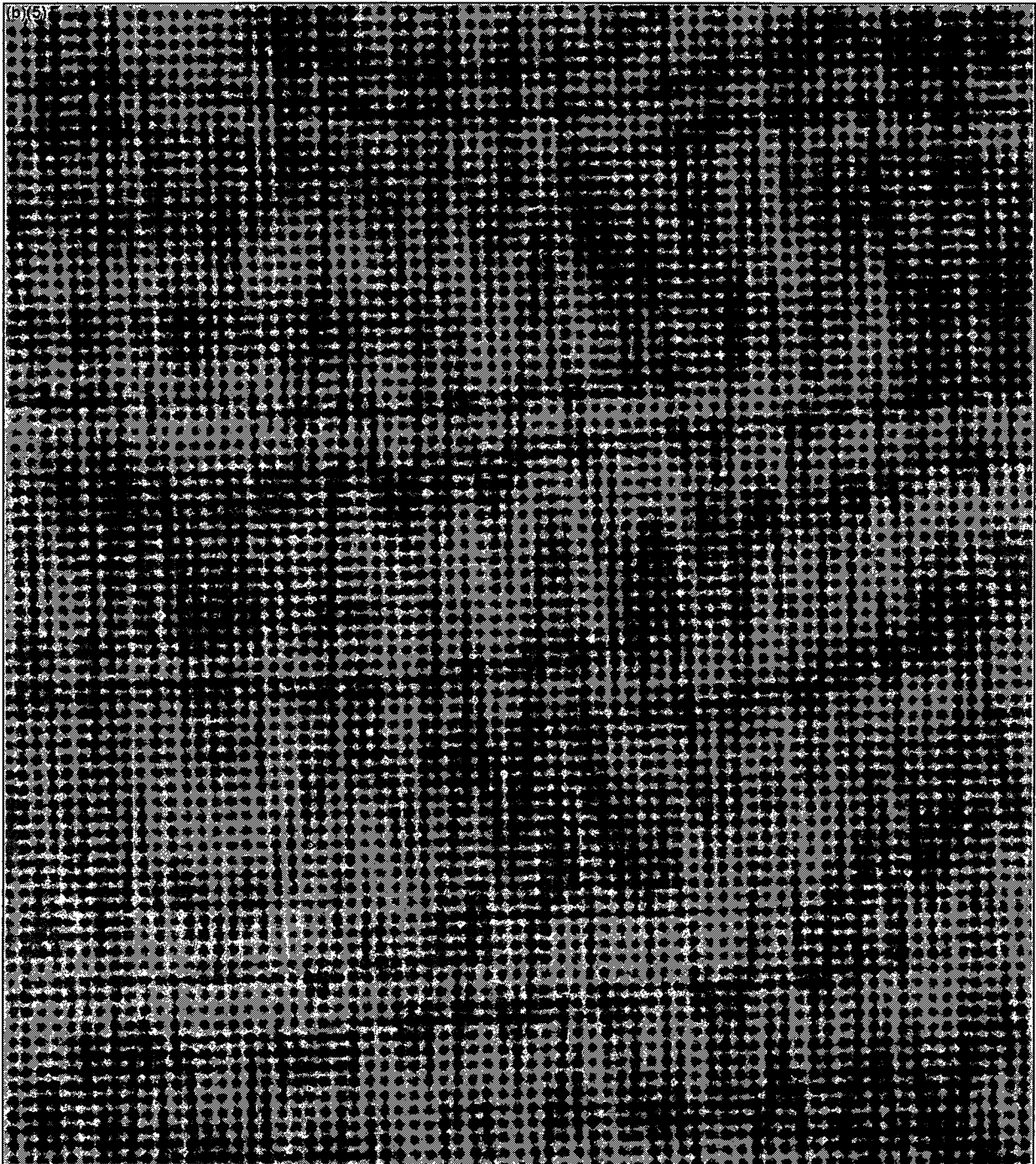
**PERSONAL PROTECTIVE EQUIPMENT**

29 CFR 1910.120(B)(ii)(C)



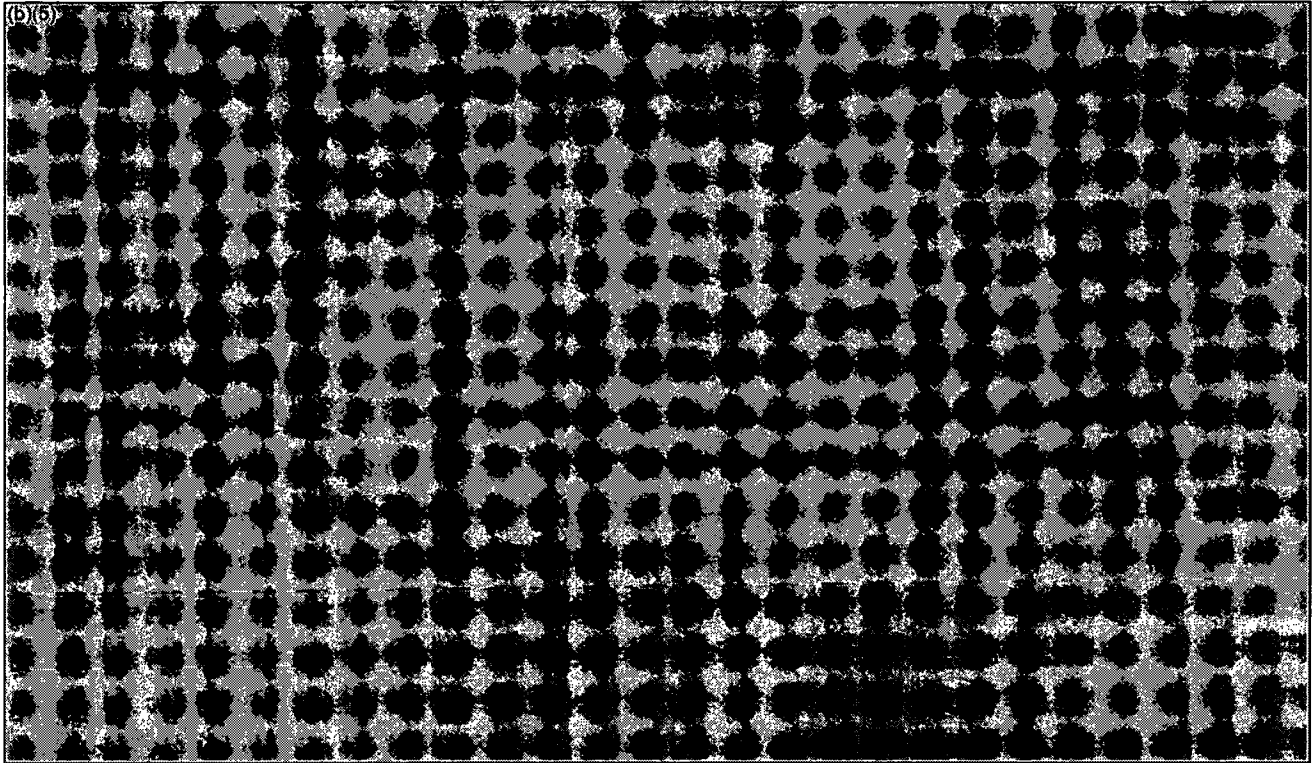
**MEDICAL SURVEILLANCE ON SITE**

29 CFR 1910.120(b)(ii)(D)

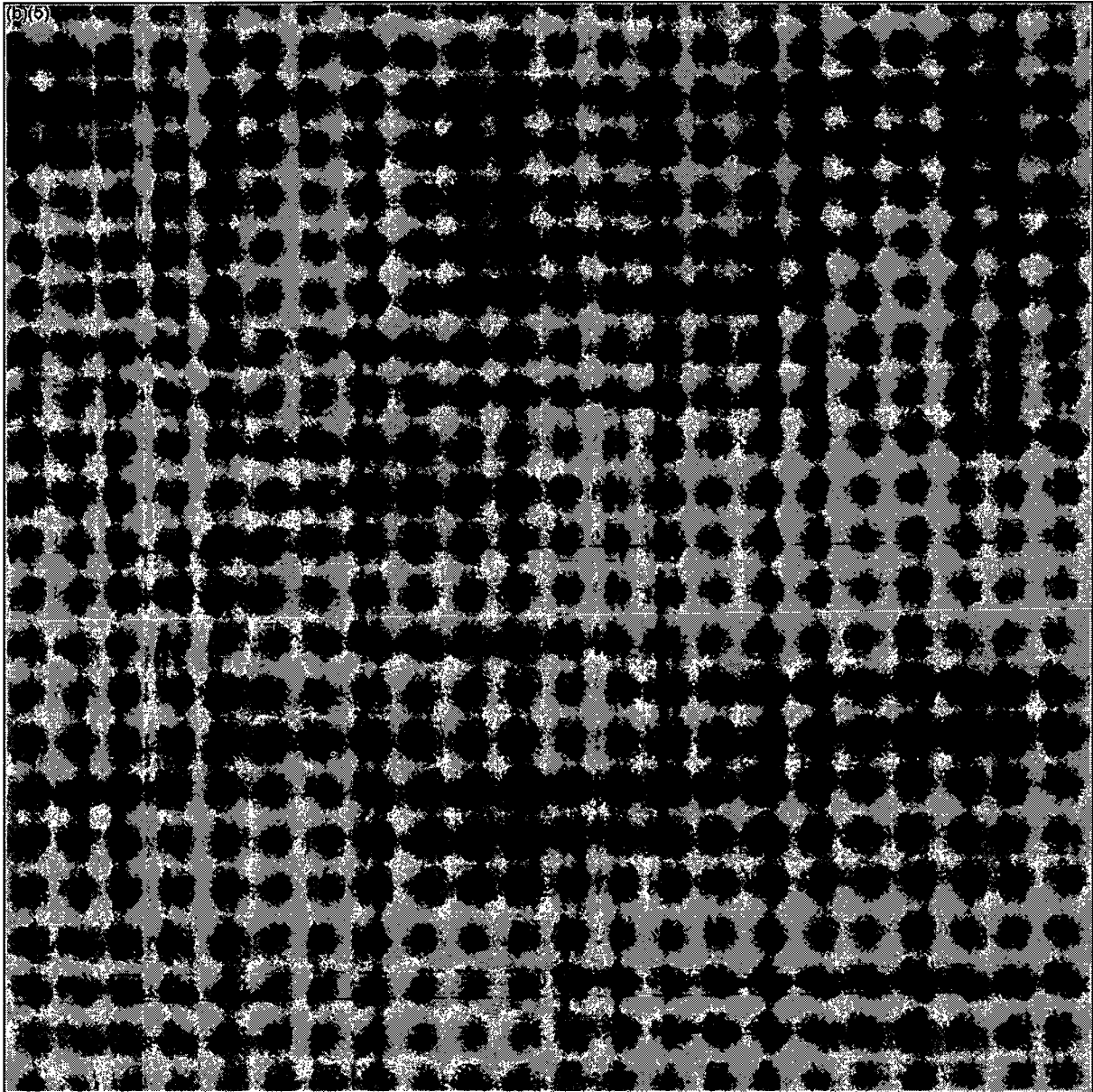


**MONITORING PLAN**

29 CFR 1910.120(b)(ii)(F)

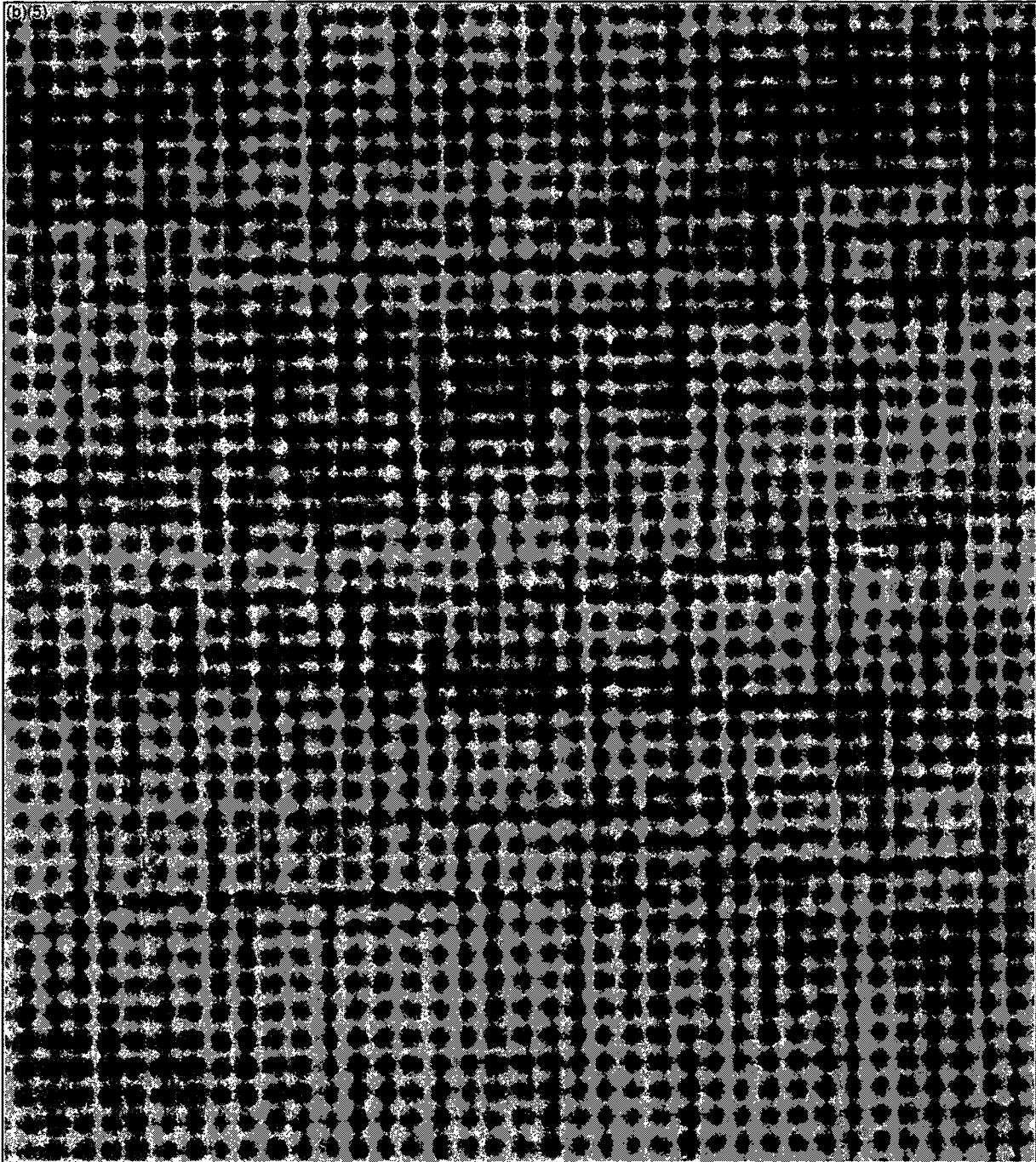


**SITE CONTROL MEASURES**  
29 CFR 1910.120(b)(ii)(F)



**DECONTAMINATION PROCEDURES**

29 CFR 1910.120(b)(4)(ii)(G)

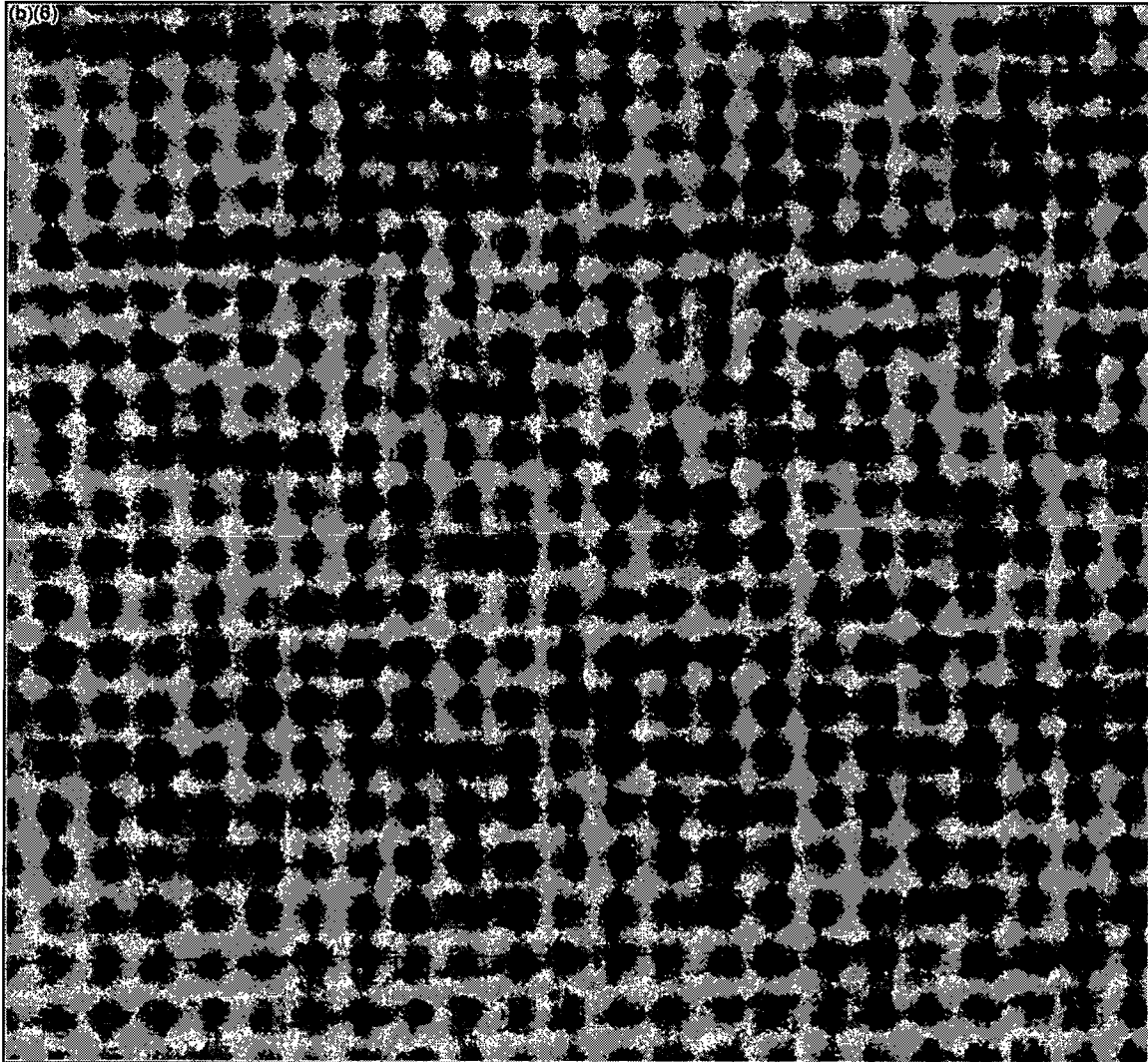




**EMERGENCY RESPONSE PLANS**

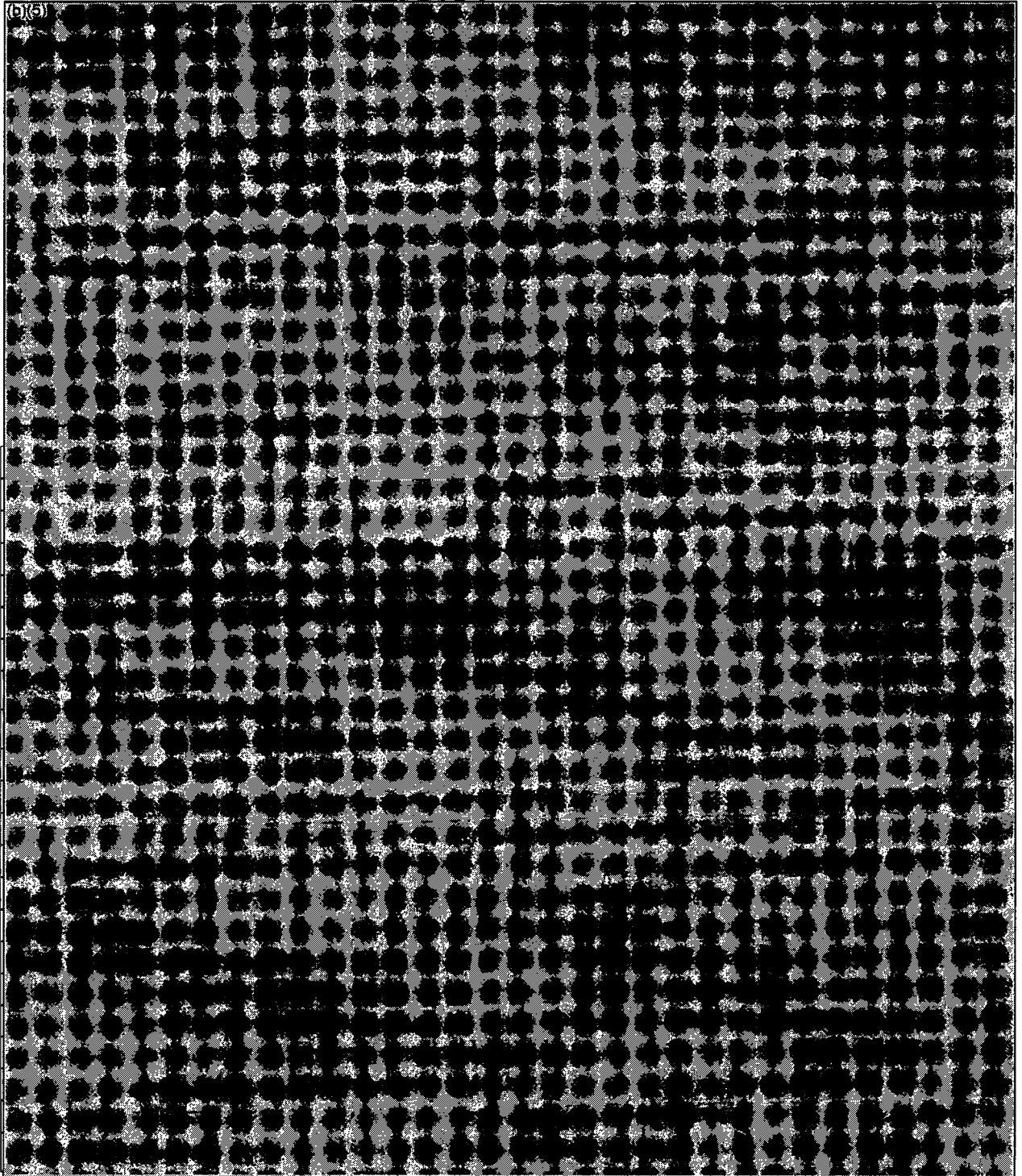
29 CFR 1910.120(b)(4)(H)

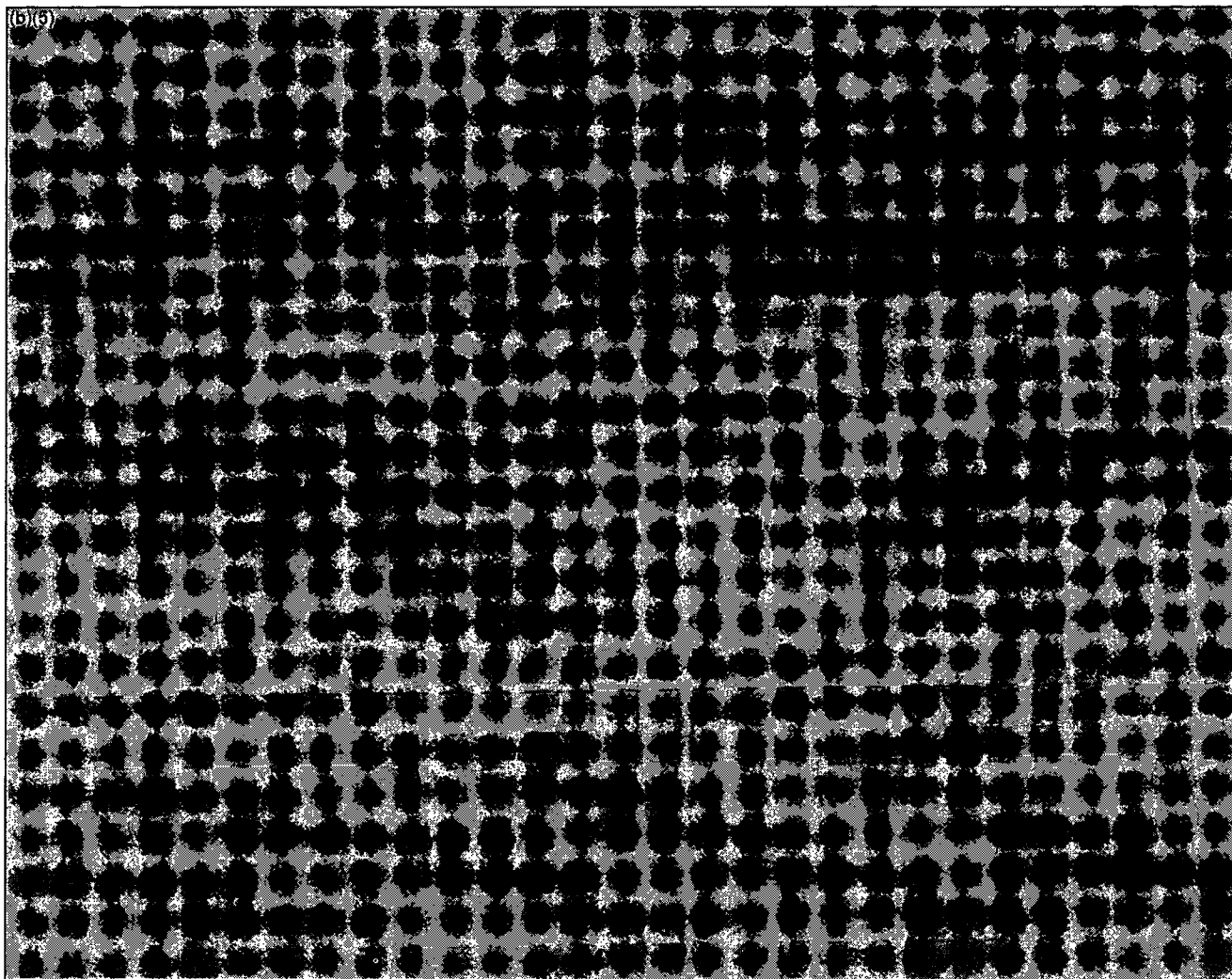
**Medical Emergencies**



**EMBASSY EVACUATION PLAN**

Embassy evacuation discussions and planning were conducted on March 15, 2011.







**USAID OFDA PACIFIC TSUNAMI DART RADIATION PROTECTION PROTOCOLS**  
29 CFR 1910.120(b)(4)(H)

References:

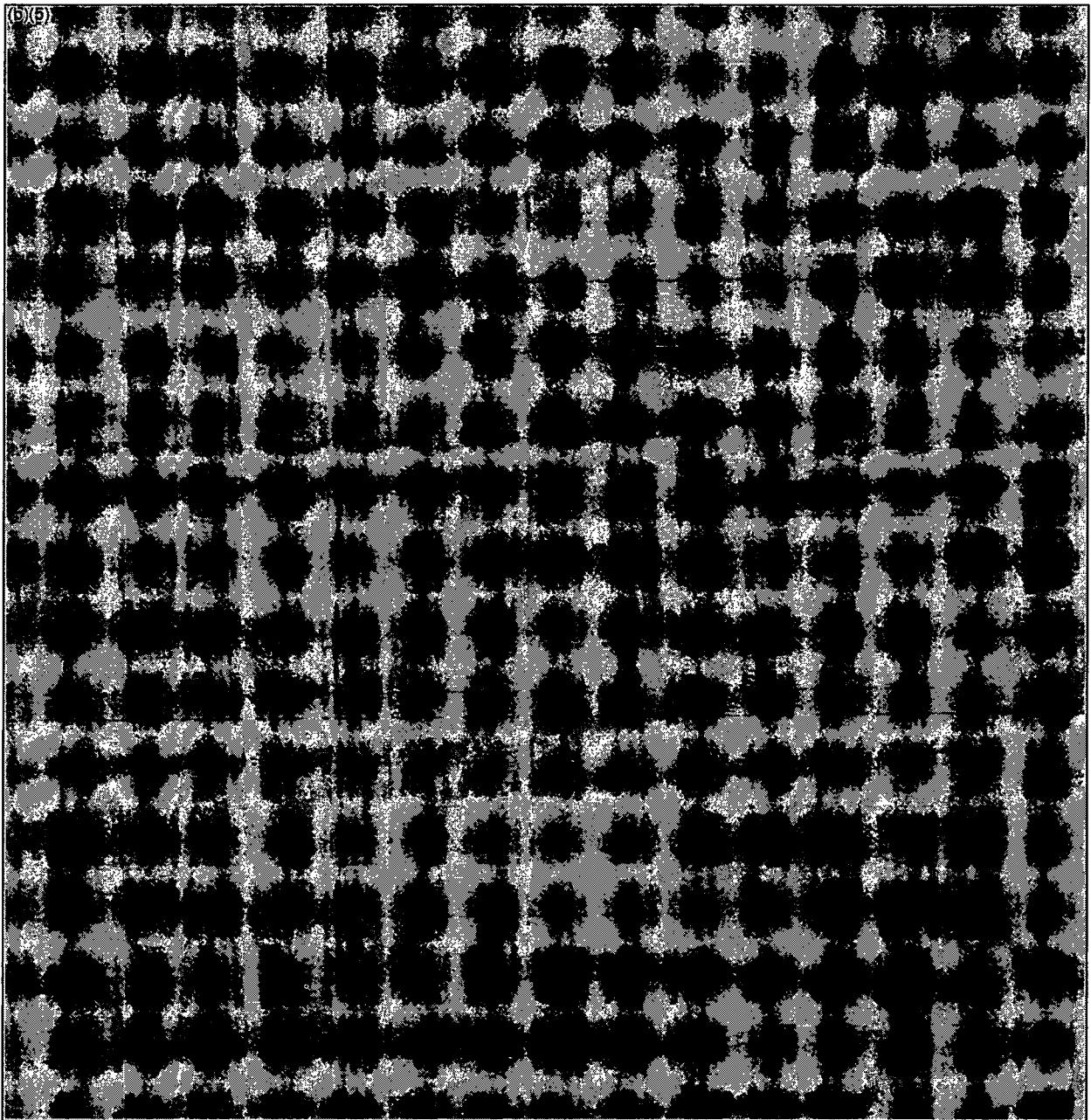
*29 CFR 1910.1096, The Ionizing Radiation Standard*

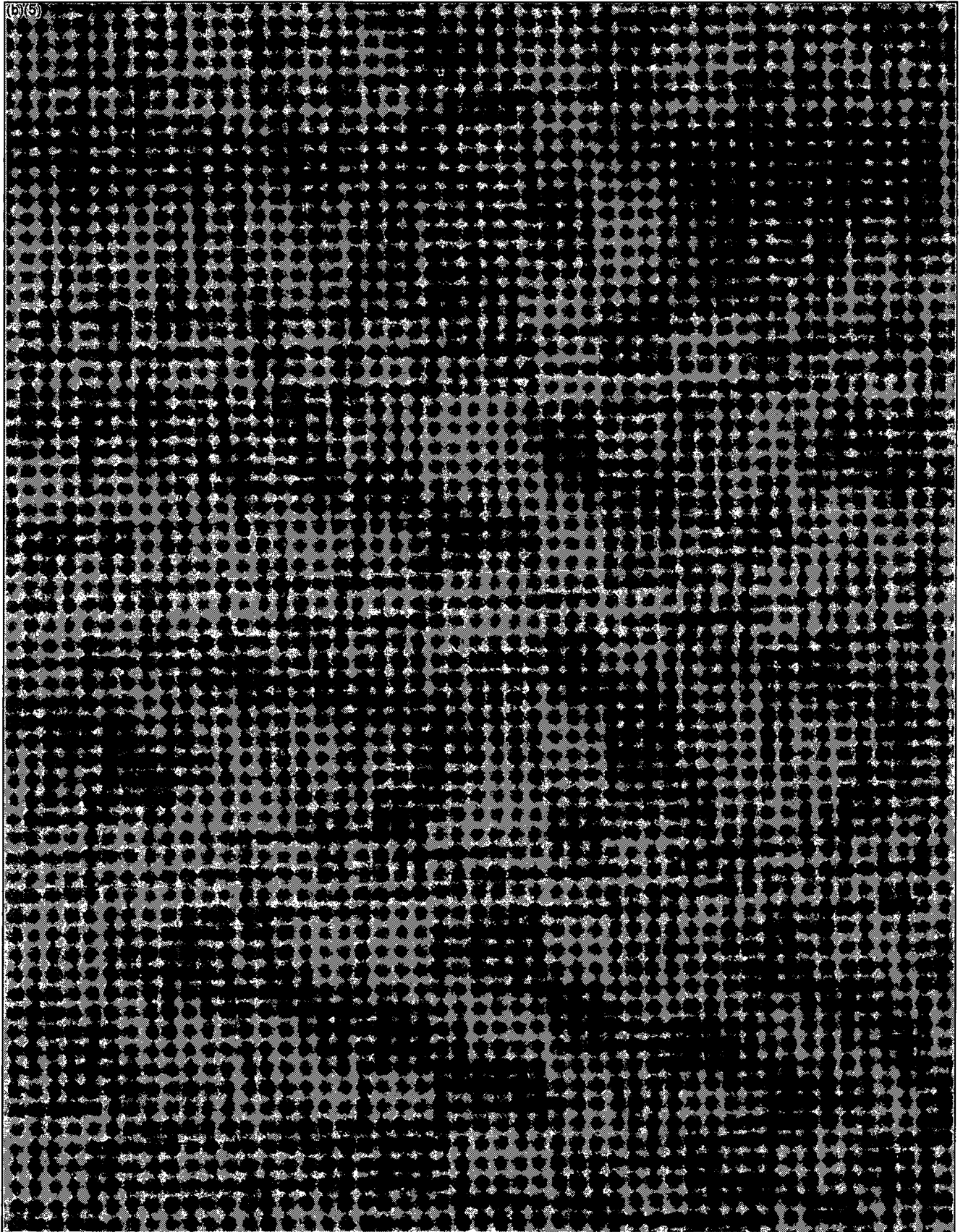
*29 CFR 1910.120, Hazard Communication*

*HHS ATSDR Toxicological Profile for Ionizing Radiation, <http://atsdr.cdc.gov>*

*DOE Radiation Protection Programs Implementation Guide, DOE G 441.1-1C*

*Protection of NRC Employees Against Ionizing Radiation, Directive 10.131*

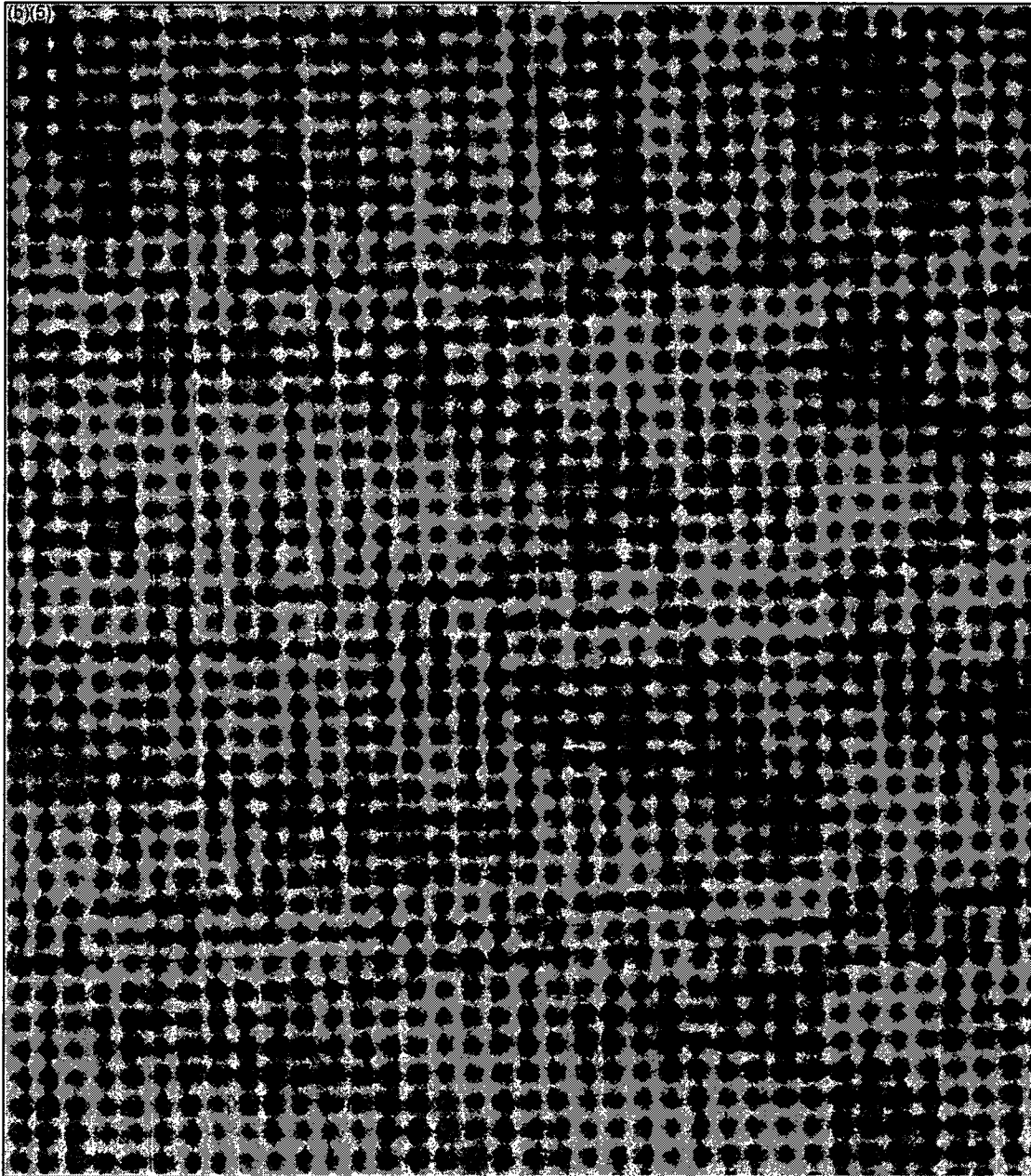






**PRE-DEPLOYMENT BRIEFINGS**

29 CFR 1910.120(b)(4)(iii)



**RADIATION MONITORING DATA**

The following radiation monitoring data will be collected.

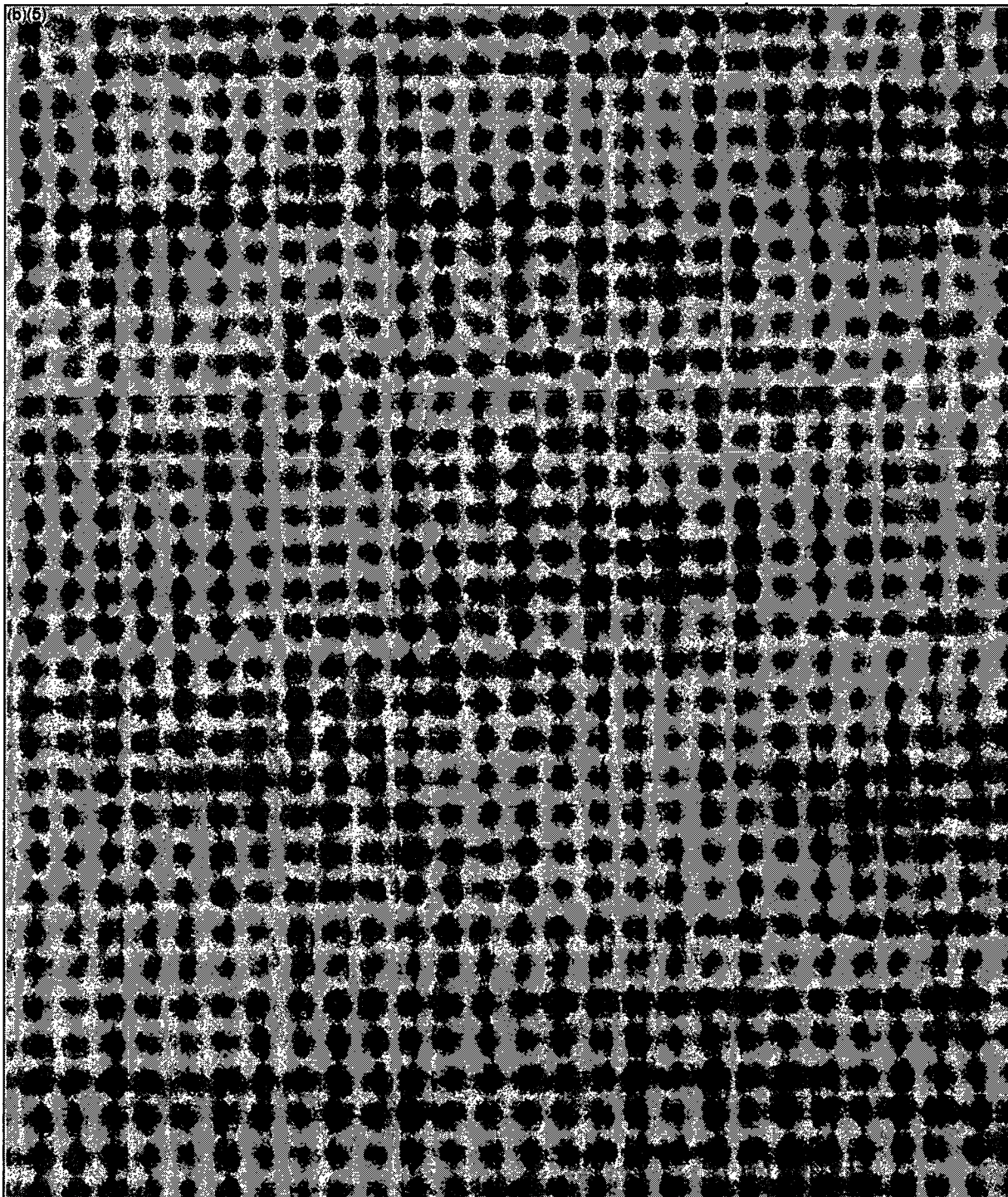
Type of Data	Location	Device
(b)(5)		

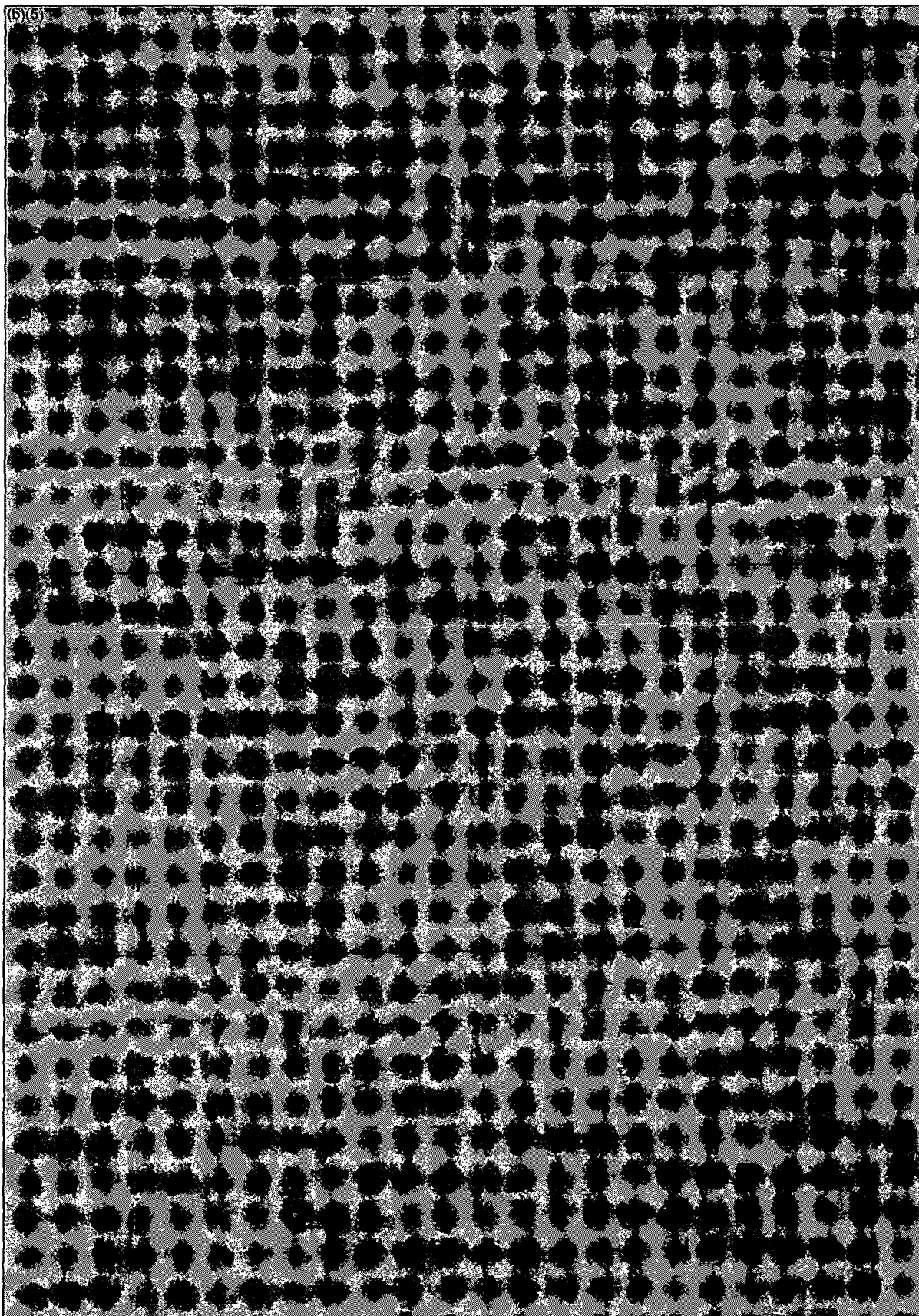


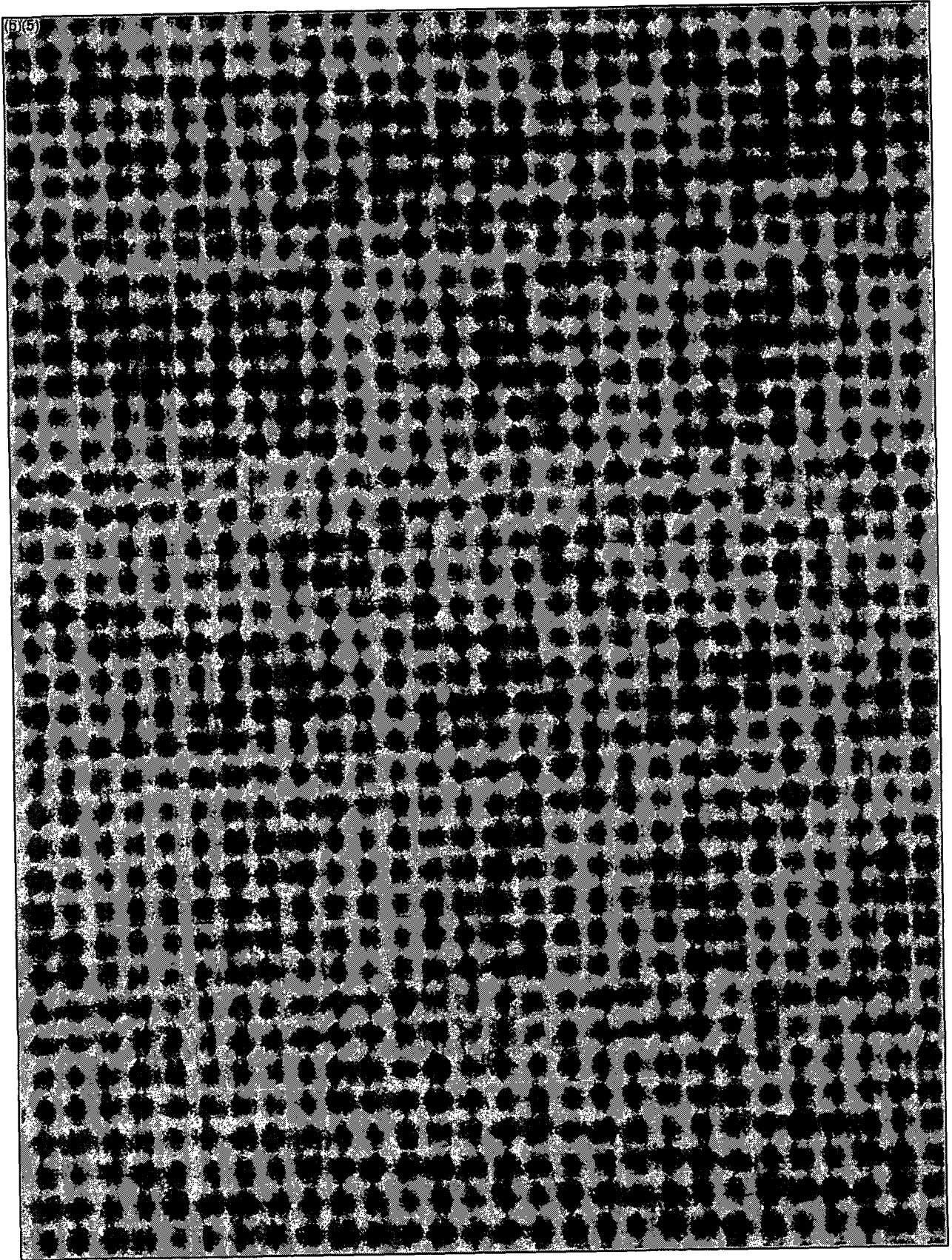
APPENDIX A

YOKOTA RADIOLOGICAL PROTECTION PLAN

(Covers USAID OFDA Military Liaison Officers Stationed There)

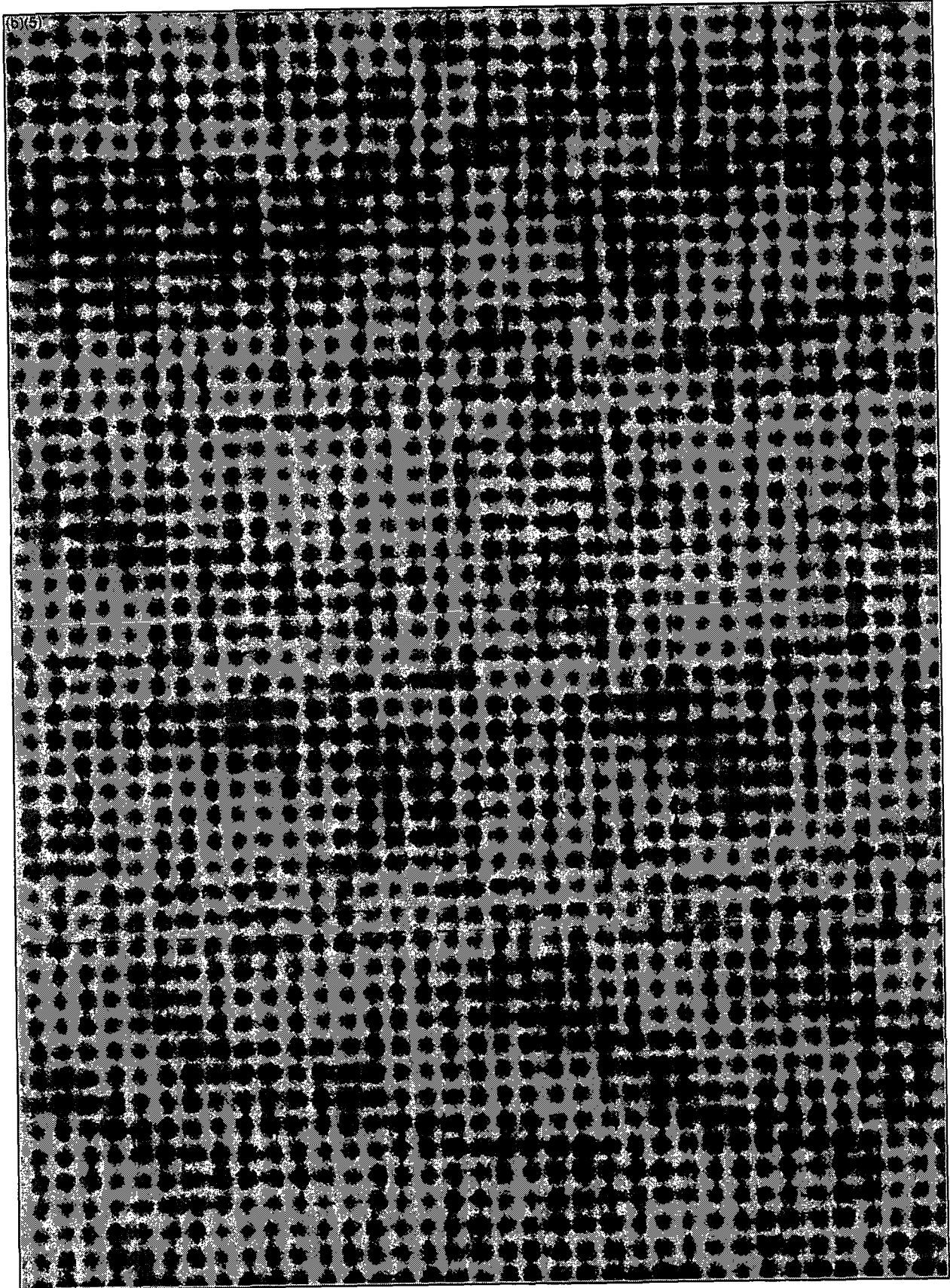


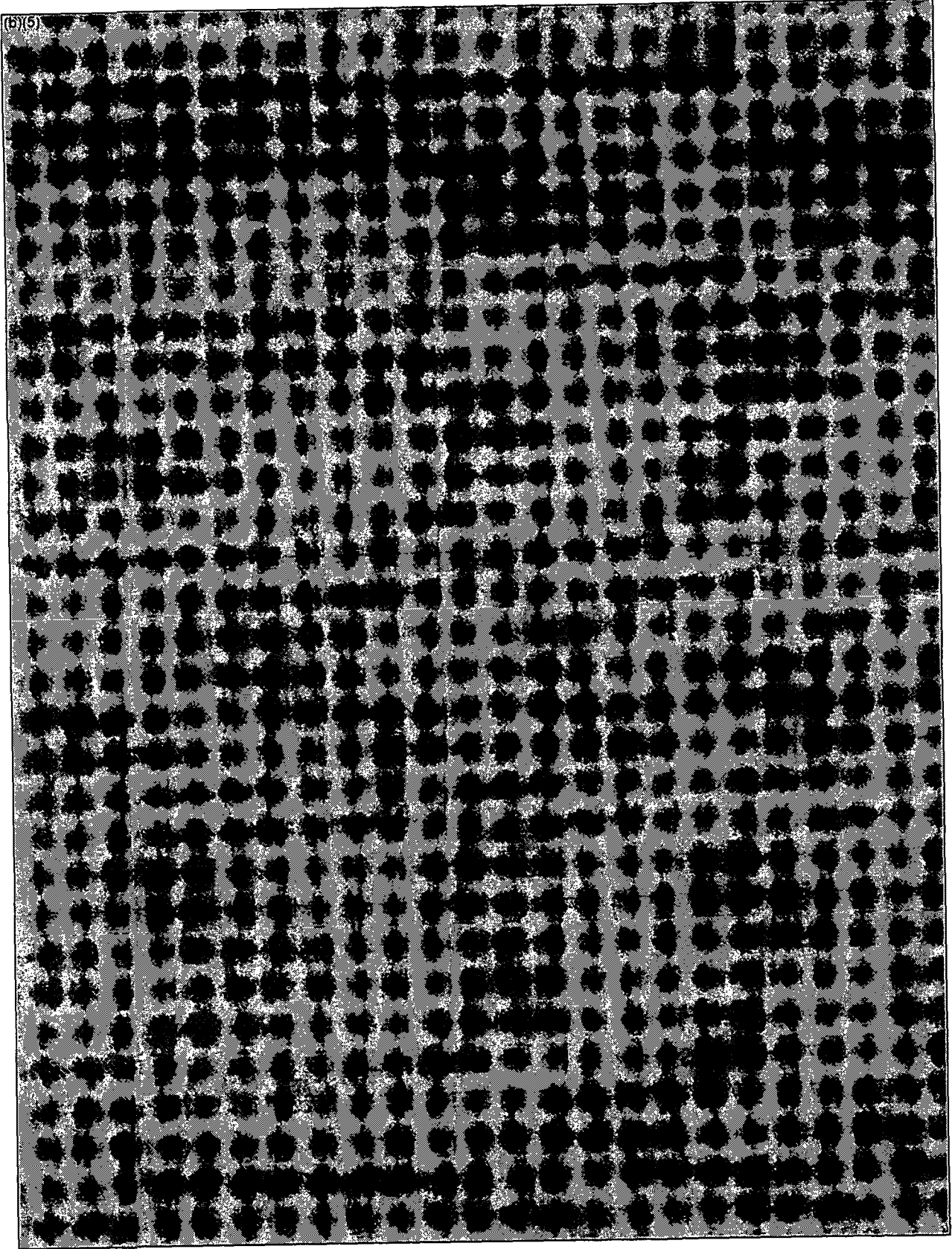


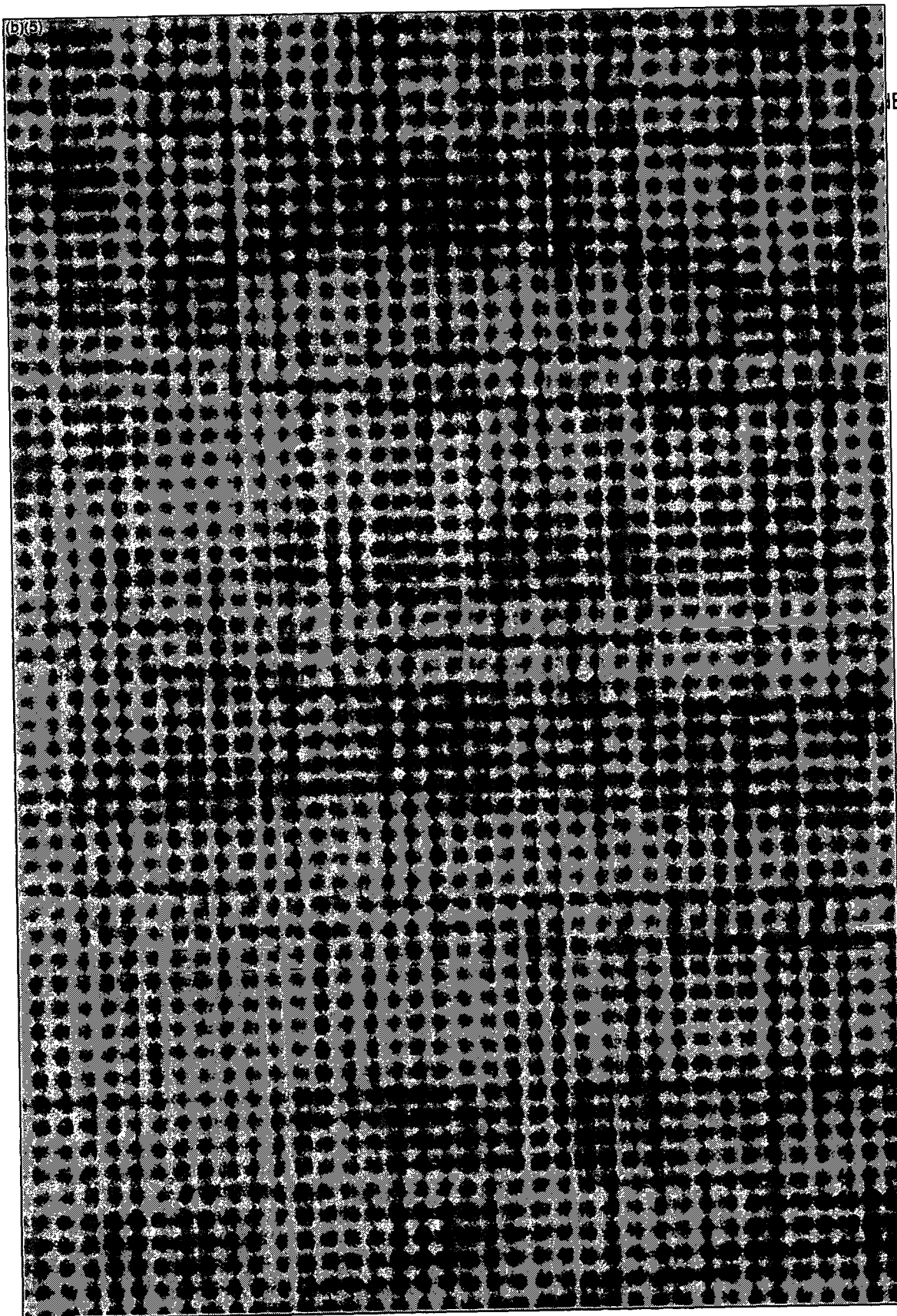


(B)(5)

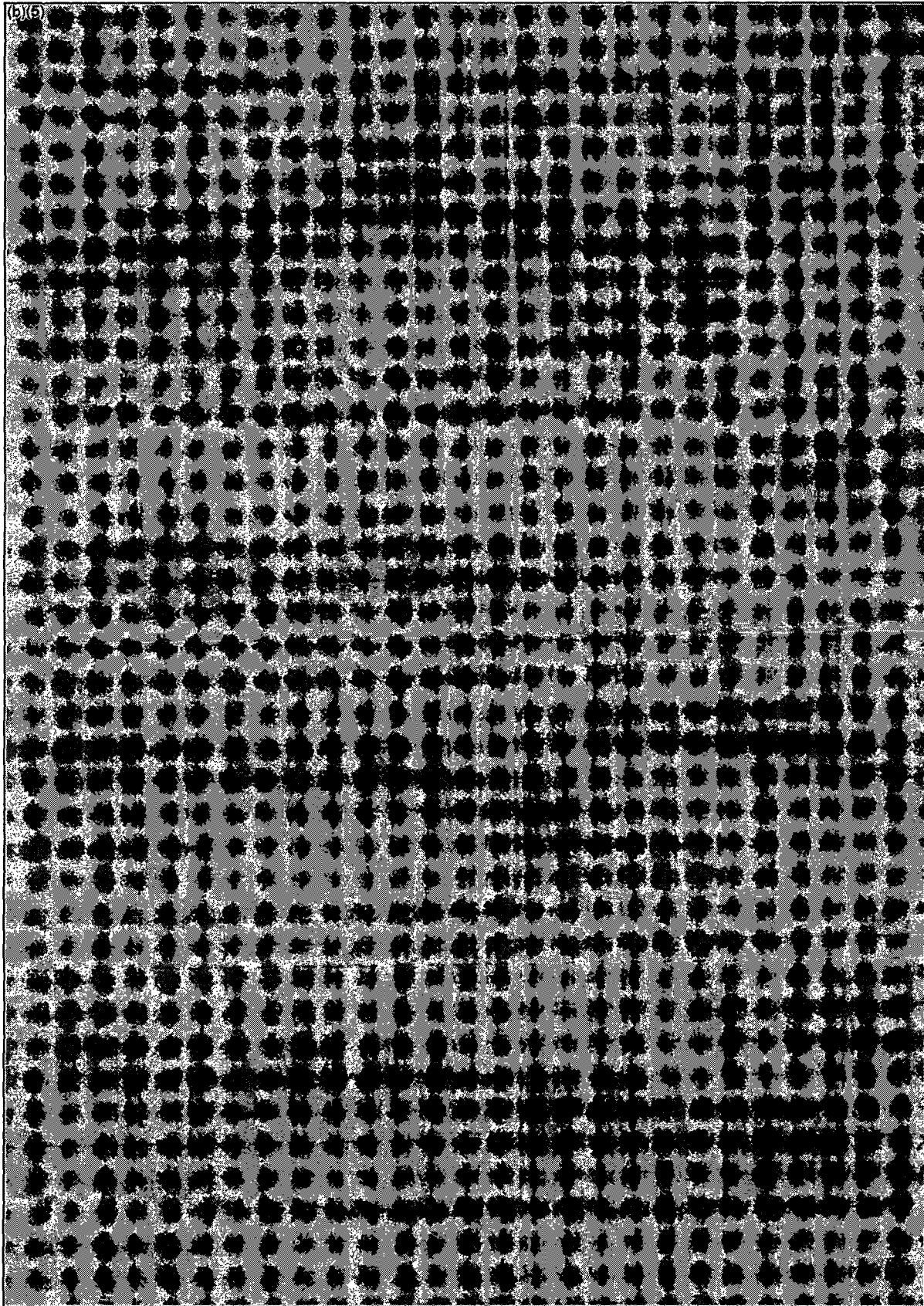


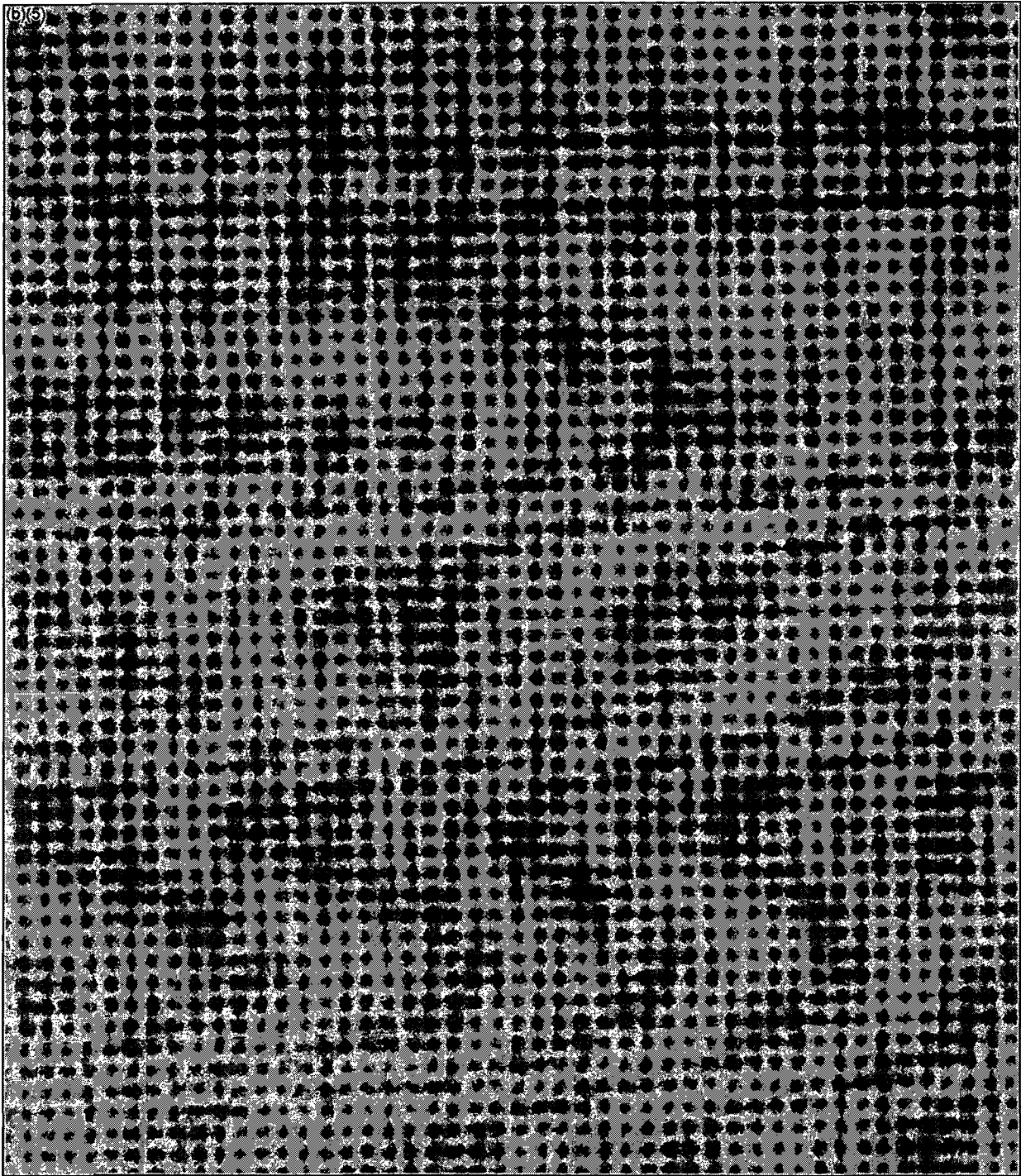






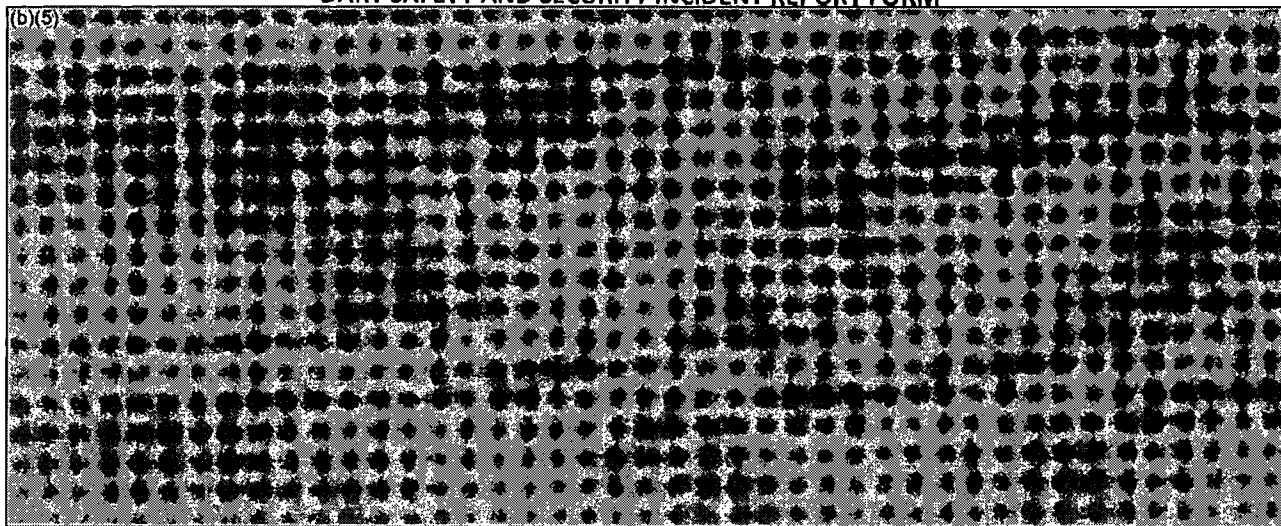






APPENDIX B

DART SAFETY AND SECURITY INCIDENT REPORT FORM



### ADM-300 Beta/Gamma Radiation Detection Meter

Calib 7/2010

(b)(5)

[illegible]




(b)(5)

A full-page view of a blank sheet of white graph paper. The grid consists of thin black horizontal and vertical lines forming small squares. There are approximately 20 columns and 20 rows visible on the page.


ir Power Plant

(b)(6)

[illegible]


Wittick, Brian

---

**From:** Wittick, Brian  
**Sent:** Thursday, April 14, 2011 1:27 AM  
**To:** 'DARTDOELiaison1'  
**Subject:** RE: request  
**Attachments:** Communication Plan for Fukushima Events.docx

Chris,

Sorry I keep missing you. I would be interested to hear more details of the system that is being set up; our PMT folks likely would as well, so maybe we can arrange a meeting. Attached is the communication plan I proposed to NISA today (Chuck told me you want to incorporate the backpacks into it). NISA was not too keen on the plan as they felt the criteria were a bit excessive, so if we are getting close that we can send information to them for incorporation that would likely soothe some of their concerns.

Let me know when you are available to talk.

Thanks  
Brian

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

**From:** DARTDOELiaison1 [<mailto:DARTDOELiaison1@ofda.gov>]  
**Sent:** Wednesday, April 13, 2011 9:16 PM  
**To:** Wittick, Brian  
**Subject:** FW: request

Brian,

I would appreciate any input you can provide on the notification process so we can ensure consistence with a process we are developing for a system to notify USG/GOJ when radiation sensors detect significant increases in exposure rate greater than 20 km from the NPP.

Thanks,

Chris Smith  
US Dept. of Energy  
03-3224-5046

---

**From:** Hay, Michael [<mailto:Michael.Hay@nrc.gov>]  
**Sent:** Wed 4/13/2011 6:27 PM  
**To:** DARTDOELiaison1  
**Subject:** RE: request

Ron,  
Brian on our team is in charge of the notification process development. You may want to have Chris come down when he has a change so they can discuss.

BA/18

Mike

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

From: DARTDOELiaison1 [<mailto:DARTDOELiaison1@ofda.gov>]  
Sent: Wednesday, April 13, 2011 2:57 AM  
To: Hay, Michael; Cherry, Ronald C  
Subject: RE: request

Mike,

The attached slides have been released to the public through the DOE website (<http://blog.energy.gov/content/situation-japan>). Provided DOE has the opportunity to officially review the report prior to public release, I see no problem using one of the attached map products for your stated purpose.

On a separate note, I would still appreciate a copy of any notification procedure NRC has worked with the Embassy to pass urgent information related to changes at Fukushima NPP.

Thanks,  
Chris

Chris Smith  
US Dept. of Energy  
03-3224-5046

---

From: Hay, Michael [<mailto:Michael.Hay@nrc.gov>]  
Sent: Wed 4/13/2011 3:33 AM  
To: 'Cherry, Ronald C'; DARTDOELiaison1  
Subject: RE: request

It's an NRC report that will be publicly issued describing the event and NRC's involvement regarding our public action recommendation decision process that involves assessing plant conditions, radiological data, etc... I put a page in the report on DOE. See attached and give me your comments. We planned to run this by you soon. My management hasn't reviewed this yet so please don't distribute. If you have updated info that would be great, I noticed some of the info was dated so I made it generic. Planned to attached the AMS illustration to this doc.

Mike

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

From: Cherry, Ronald C [<mailto:CherryRC@state.gov>]  
Sent: Wednesday, April 13, 2011 2:13 AM  
To: Hay, Michael; DARTDOELiaison1  
Subject: RE: request

I'll leave it to the AMS guys. I'll be out all day tomorrow. It goes without saying I'm interested in the report you're preparing. Who are you doing the report for?

Thanks.

Ron

This email is UNCLASSIFIED

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

From: Hay, Michael [<mailto:Michael.Hay@nrc.gov>]  
Sent: Wednesday, April 13, 2011 4:09 PM  
To: Cherry, Ronald C; DARTDOELiaison1  
Subject: RE: request

Thanks much. I'm putting finishing touches on this report, if I can get something by COB tomorrow that would be great.

Thanks again guys. It's been a pleasure working with you all.

Mike

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

From: Cherry, Ronald C [<mailto:CherryRC@state.gov>]  
Sent: Wednesday, April 13, 2011 2:06 AM  
To: Hay, Michael; DARTDOELiaison1  
Subject: RE: request

Mike,

Thanks for your question. Interesting what you say about the AMS data not being for public disclosure. We're certainly releasing the results of the AMS assessments.

Chris,

Could you help NRC with the request below?

Thanks.

Ron

This email is UNCLASSIFIED

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

From: Hay, Michael [<mailto:Michael.Hay@nrc.gov>]  
Sent: Wednesday, April 13, 2011 4:03 PM  
To: Cherry, Ronald C  
Subject: request

Ron,

I'm putting finishing touches on a NRC report that discusses the event and the overall response of the NRC and other agencies. Is it possible to use one of the AMS run data sheets as an illustration how we acquire rad data. I noticed the data is labeled not for public disclosure. I think this is really interesting technology that the public would find insightful. If the answer is yes can someone please email me a illustration with the disclaimer removed?

Thanks much.

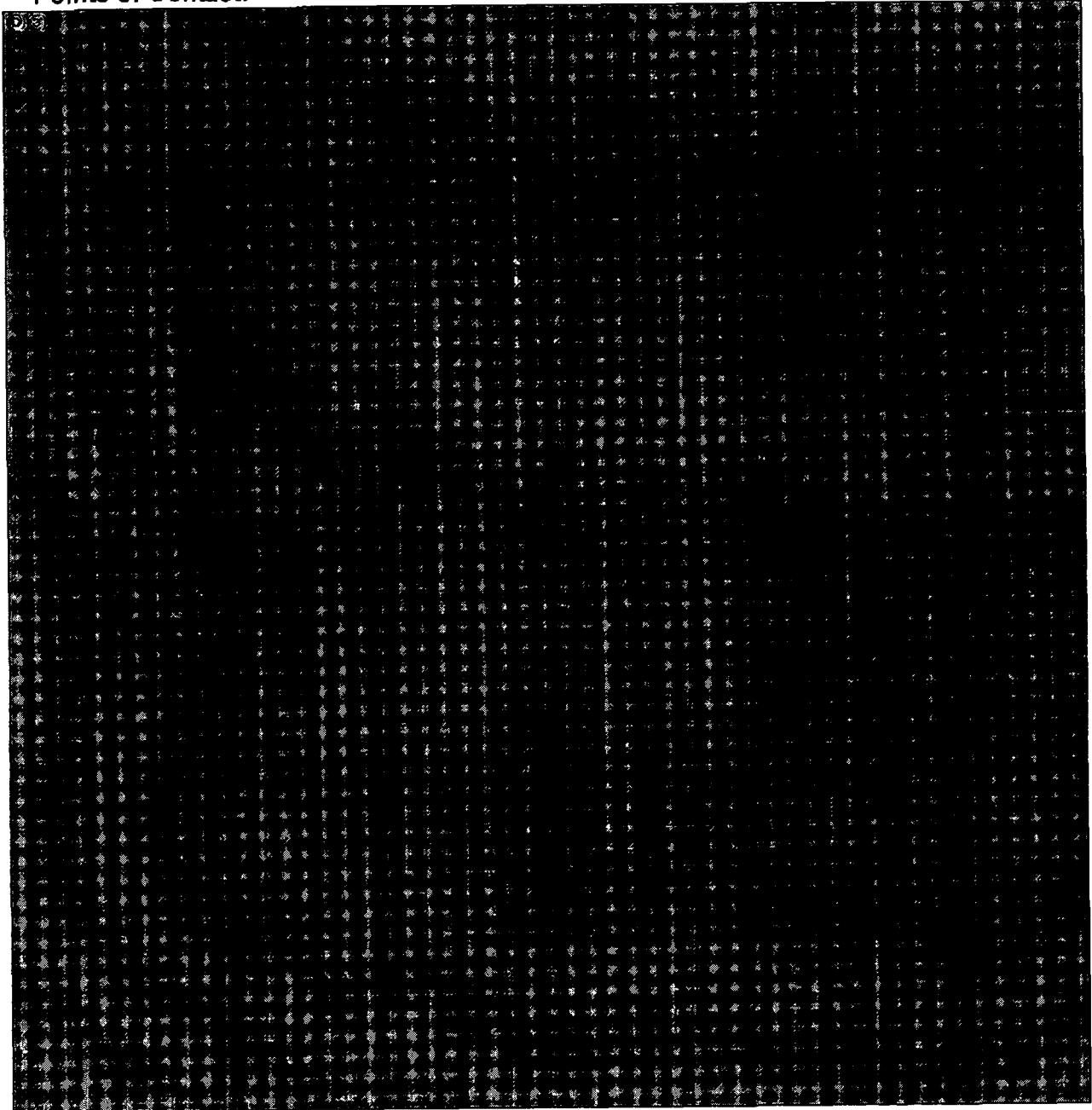
Mike Hay  
USNRC

**DRAFT**

**Government of Japan and U.S. Embassy/U.S. Nuclear Regulatory  
Commission (NRC) Communication Plan**

**In Case of Follow-on Event at Fukushima Daiichi**

**Points of Contact:**





**From:** RMTPACTSU\_ELNRC  
**To:** LIA06 Hoc; LIA11 Hoc; LIA01 Hoc; LIA07 Hoc; LIA02 Hoc; LIA08 Hoc; LIA12 Hoc; Harrington, Holly; McIntyre, David; Burnell, Scott; ET07 Hoc  
**Subject:** FYI -- FW: 7 Apr 11 - \$24.7M - Japanese Earthquake Tsunami Relief (Operation Tomodachi) and Dependent Evacuation - TRANSCOM Airlift Cost Estimates  
**Date:** Thursday, April 07, 2011 2:37:40 PM  
**Attachments:** AMC - Japanese Earthquake Tsunami Relief as of 7 Apr 11 with evac tab.xlsx  
TRANSCOM Tracking Sheet for Japan Earthquake 7 Apr 11 Est Oblig.xlsx

---

**From:** Van Slate, Rene  
**Sent:** Thursday, April 07, 2011 1:46 PM  
**To:** RMTPACTSU DART; RMTPACTSU DART; RMTPACTSU\_AC; RMTPACTSU\_AC\_SG; RMTPACTSU\_ALO; RMTPACTSU\_ALO\_SG; RMTPACTSU\_ALOAdmin; RMTPACTSU\_ALOADMIN\_SG; RMTPACTSU\_ALOAdmin1; RMTPACTSU\_ALOAdmin1\_SG; RMTPACTSU\_ALOAsia; RMTPACTSU\_ALOASIA\_SG; RMTPACTSU\_ALOLAC; RMTPACTSU\_ALOLAC\_SG; RMTPACTSU\_AO; RMTPACTSU\_AO\_SG; RMTPACTSU\_CORE; RMTPACTSU\_CRC; RMTPACTSU\_CRC\_SG; RMTPACTSU\_CRO; RMTPACTSU\_CRO\_SG; RMTPACTSU\_DMO; RMTPACTSU\_DMO\_SG; RMTPACTSU\_DMP; RMTPACTSU\_DMP\_SG; RMTPACTSU\_DO\_SG; RMTPACTSU\_DoDJCS; RMTPACTSU\_DOE; RMTPACTSU\_DOE\_SG; RMTPACTSU\_ELC\_SG; RMTPACTSU\_ELNRC; RMTPACTSU\_ELNRC\_SG; RMTPACTSU\_ELO; RMTPACTSU\_ELO\_SG; RMTPACTSU\_FCC; RMTPACTSU\_FCC\_SG; RMTPACTSU\_FEMA; RMTPACTSU\_FEMA\_SG; RMTPACTSU\_FFP; RMTPACTSU\_FFP\_SG; RMTPACTSU\_GIO; RMTPACTSU\_GIO\_SG; RMTPACTSU\_HHS; RMTPACTSU\_HHS1; RMTPACTSU\_HHS1\_SG; RMTPACTSU\_INC; RMTPACTSU\_INC\_SG; RMTPACTSU\_IO; RMTPACTSU\_IO\_SG; RMTPACTSU\_LC; RMTPACTSU\_LC\_SG; RMTPACTSU\_LO; RMTPACTSU\_LO\_SG; RMTPACTSU\_MLO; RMTPACTSU\_MLO\_SG; RMTPACTSU\_PACOM; RMTPACTSU\_PACOM\_SG; RMTPACTSU\_Parent Group; RMTPACTSU\_PC; RMTPACTSU\_PC\_SG; RMTPACTSU\_PGO; RMTPACTSU\_PGO\_SG; RMTPACTSU\_PLO; RMTPACTSU\_PLO\_SG; RMTPACTSU\_PRO; RMTPACTSU\_PRO\_SG; RMTPACTSU\_RM; RMTPACTSU\_RM\_SG; RMTPACTSU\_SO; RMTPACTSU\_SO\_SG; RMTPACTSU\_SRO; RMTPACTSU\_SRO\_SG; RMTPACTSU\_SSO; RMTPACTSU\_SSO\_SG; RMTPACTSU\_STATE; RMTPACTSU\_STATE\_SG; RMTPACTSU\_TO; RMTPACTSU\_TO\_SG; RMTPACTSUEmails2011  
**Subject:** FW: 7 Apr 11 - \$24.7M - Japanese Earthquake Tsunami Relief (Operation Tomodachi) and Dependent Evacuation - TRANSCOM Airlift Cost Estimates

Please find the latest cost estimates for Operation Tomodachi below. If you would like to be deleted from this list, please reply to this message.  
Thank you.

Rene' Van Slate  
USAID/OFDA Acting Humanitarian Assistance Advisor to PACOM

drich, William J II CIV PACOM J05  
**Sent:** Thu 4/7/2011 11:08 AM  
**To:** Dini, Frederick CDR USN  
**Cc:** Van Slate, Rene  
**Subject:** FW: 7 Apr 11 - \$24.7M - Japanese Earthquake Tsunami Relief (Operation Tomodachi) and Dependent Evacuation - TRANSCOM Airlift Cost Estimates

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

**From:** [REDACTED]  
**Sent:** Thursday, April 07, 2011 4:23  
**To:** [REDACTED]  
**Cc:** [REDACTED]

BA/19

(b)(6)



Subject: 7 Apr 11 - \$24.7M - Japanese Earthquake Tsunami Relief (Operation Tomodachi)  
and Dependent Evacuation - TRANSCOM Airlift Cost Estimates

(b)(6)



Any questions, please feel free to call. If you want to be deleted or know someone to add to this email distro, please let us know.

v/r

(b)(6)



USTRANSCOM/J8-BT  
Contingency Analyst  
Com: 618-229-5021  
DSN: 779-5021

UNIT	MDS	TAIL	BASIC SEX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
OPERATION TOMODACHI													
JAPAN EARTHQUAKE & TSUNAMI RELIEF (QR in 8/9th)													
452AMW	C17A	55142	A112QR	XJZA112QR089	100	KRIV	1089 1455	KDOV	1089 1950	4.9	(b)(5)	ARMY	
452AMW	C17A	55142	A112QR	XMZA112QR090	200	KDOV	1090 1138	KTCM	1090 1749	6.2	(b)(5)	ARMY	TJPN 01
452AMW	C17A	55142	A112QR	XMZA112QR090	250	KTCM	1090 1947	RJTY	1091 0705	11.3	(b)(5)	ARMY	
452AMW	C17A	55142	A112QR	XVZA112QR092	400	RJTY	1092 0545	KRIV	1092 1653	11.1	(b)(5)	ARMY	
452AMW	C17A	55142	A112QR	XVZA112QR092	400	RJTY		PAED		0	(b)(5)	ARMY	
											(b)(5)		
374AW	C130H	42071	A928QR	LMZA928QR085	100	RJTY	1085 0758	RJSM	1085 0925	1.5	(b)(5)	ARMY	
374AW	C130H	42071	A928QR	LVZA928QR085	200	RJSM	1085 1005	RJTY	1085 1140	1.6	(b)(5)	ARMY	
											(b)(5)		
15WG	C17A	55148	A995QR	LJZA995QR084	100	RJTY	1084 0053	PHIK	1084 0803	7.2	(b)(5)	ARMY	
15WG	C17A	55152	A995QR	LMZA995QR084	300	PHIK	1084 1345	RJTY	1084 2340	9.9	(b)(5)	ARMY	
											(b)(5)		
374AW	C130H	42070	F001QR	LJZF001QR088	100	RJTY	1088 2251	RJSM	1089 0045	1.9	(b)(5)	USAF	
374AW	C130H	42070	F001QR	LMZF001QR089	200	RJSM	1089 0215	RODN	1089 0625	4.2	(b)(5)	USAF	LV02001
374AW	C130H	42070	F001QR	LVZF001QR089	300	RODN	1089 0926	RJTY	1089 1220	2.9	(b)(5)	USAF	
											(b)(5)		
3WG	C17A	55152	F005QR	LMZF005QR092	100	RJTY	1092 0057	RJSM	1092 0213	1.3	(b)(5)	USAF	JTT74
3WG	C17A	55152	F005QR	LMZF005QR092	300	RJSM	1092 0518	RJTY	1092 0652	1.6	(b)(5)	USAF	1G, LRF1H, LRF1L, LRF1K,
											(b)(5)		
15WG	C17A	533	F007QR	LJZF007QR094	100	RJTY	1094 0010	RJSS	1094 0058	0.8	(b)(5)	USAF	
15WG	C17A	533	F007QR	LMZF007QR094	300	RJSS	1094 0252	RJTY	1094 0350	1	(b)(5)	USAF	LJ256, LJ861
											(b)(5)		
374AW	C130H	41684	F009QR	LJZF009QR095	100	RJTY	1095 0837	RJSS	1095 0950	1.2	(b)(5)	USAF	
374AW	C130H	41684	F009QR	LMZF009QR095	200	RJSS	1095 1052	RJTY	1095 1205	1.2	(b)(5)	USAF	LJ127
											(b)(5)		
15WG	C17A	55152	F012QR	LJZF012QR095	100	RJTY	1095 1010	RJSS	1095 1205	1.9	(b)(5)	USAF	
15WG	C17A	55152	F012QR	LMZF012QR095	200	RJSS	1095 1245	RJTY	1095 1422	1.6	(b)(5)	USAF	55, LJ129
											(b)(5)		
15WG	C17A	533	F013QR	LMZF013QR095	100	RJTY	1095 0114	PHIK	1095 0835	7.4	(b)(5)	USAF	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
374AW	C130H	42131	F015QR	LMZF015QR096	100	RJTY	1096 0203	RODN	1096 0525	3.4	(b)(5)	USAF	JTT82,U005
374AW	C130H	42131	F015QR	LVZF015QR096	200	RODN		RJTY		0		USAF	
62AW	C17A	90060	F101QR	PJZF101QR072	100	RJSM	1072 1941	RKTN	1072 2201	2.3		USAF	
62AW	C17A	90060	F101QR	PMZF101QR073	200	RKTN	1073 0024	RJSM	1073 0211	1.8		USAF	U008
62AW	C17A	90060	F101QR	PMZF101QR073	300	RJSM	1073 0408	RKPK	1073 0633	2.4		USAF	
62AW	C17A	90060	F101QR	PMZF101QR073	550	RKPK	1074 0101	RJSM	1074 0249	1.8		USAF	U009
62AW	C17A	90060	F101QR	PMZF101QR073	575	RJSM	1074 0407	RKPK	1074 0640	2.5		USAF	
62AW	C17A	90060	F101QR	PMZF101QR073	588	RKPK	1074 0958	RJSM	1074 1138	1.7		USAF	U009
62AW	C17A	90060	F101QR	PMZF101QR073	594	RJSM	1075 0724	PAED	1075 1359	6.6		USAF	
62AW	C17A	90060	F101QR	PVZF101QR075	600	PAED	1075 1553	KTCM	1075 1906	3.2		USAF	
172AW	C17A	33116	F105QR	JJZF105QR080	100	KJAN	1080 1712	KFFO	1080 1845	1.5		USAF	
172AW	C17A	33116	F105QR	JMZF105QR080	200	KFFO	1080 2100	PAED	1081 0358	7		USAF	LRF3C
172AW	C17A	33116	F105QR	JMZF105QR080	300	PAED	1081 2036	RJTY	1082 0513	8.6		USAF	
172AW	C17A	33116	F105QR	JVZF105QR082	400	RJTY	1083 0342	PAED	1083 1025	6.7		USAF	
172AW	C17A	33116	F105QR	JVZF105QR082	500	PAED	1084 1042	KJAN	1084 1737	6.9		USAF	
15WG	C17A	55149	F901QR	LMZF901QR071	100	PHIK	1071 2228	RJTY	1072 0742	9.2	(b)(5)	USAF	U001
15WG	C17A	55149	F901QR	LMZF901QR071	300	RJTY	1072 1057	RJSM	1072 1200	1.1		USAF	
15WG	C17A	55149	F901QR	LVZF901QR073	400	RJSM	1072 1321	PGUA	1072 1705	3.7		USAF	
15WG	C17A	55149	F901QR	LVZF901QR073	450	PGUA	1076 1952	RJSM	1077 0105	5.2		USAF	
15WG	C17A	55149	F901QR	LVZF901QR073	500	RJSM	1077 0415	RJTY	1077 0525	1.2		USAF	
15WG	C17A	55147	F901QR	LMZF901QR085	300	RKJK	1085 1552	RJTY	1085 1731	1.6		USAF	3,UB40,UB37,UB39,U
15WG	C17A	55147	F901QR	LMZF901QR085	350	RJTY	1085 2023	RJSM	1085 2128	1.1		USAF	
15WG	C17A	55147	F901QR	LVZF901QR085	400	RJSM	1085 2254	RJTY	1085 2355	1		USAF	

UNIT	MDS	TAIL	BASIC SLX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
374AW	C130H	41668	F902QR	LJZF902QR071	100	RJTY	1071 1913	RJTY	1071 1955	0.7	(b)(5)	USAF	
374AW	C130H	41690	F902QR	LJZF902QR071	150	RJTY	1071 2128	RODN	1072 0100	3.5	(b)(5)	USAF	
374AW	C130H	41685	F903QR	LJZF903QR071	100	RJTY	1071 1957	RODN	1071 2330	3.5	(b)(5)	USAF	
374AW	C130H	41685	F903QR	LMZF903QR072	200	RODN	1072 0344	RJTY	1072 0656	3.2	(b)(5)	USAF	03F90301
374AW	C130H	41685	F903QR	LVZF903QR072	400	RJTY	1072 0804	RJSM	1072 0940	1.6	(b)(5)	USAF	
374AW	C130H	41685	F903QR	LVZF903QR072	500	RJSM	1072 1210	RJTY	1072 1235	0.4	(b)(5)	USAF	
3WG	C17A	171	F904QR	LJZF904QR072	200	PAED	1072 0055	RODN	1072 1048	9.9	(b)(5)	USAF	
3WG	C17A	171	F904QR	LMZF904QR072	300	RODN	1072 1343	RJSM	1072 1625	2.7	(b)(5)	USAF	01F90401
3WG	C17A	171	F904QR	LVZF904QR072	500	RJSM	1072 1837	RJTY	1072 1935	1	(b)(5)	USAF	
374AW	C130H	42131	F906QR	LJZF906QR072	100	RJTY	1072 0904	RODN	1072 1240	3.6	(b)(5)	USAF	
374AW	C130H	42131	F906QR	LMZF906QR072	300	RODN	1072 1906	RJTY	1072 2210	3.1	(b)(5)	USAF	
374AW	C130H	41684	F907QR	LMZF907QR072	100	RODN	1072 1355	RJSM	1072 1800	4.1	(b)(5)	USAF	03F90703
374AW	C130H	41684	F907QR	LVZF907QR072	300	RJSM	1072 1901	RJTY	1072 2035	1.6	(b)(5)	USAF	
374AW	C130H	41685	F908QR	LJZF908QR072	100	RJTY	1072 1750	RJCI	1072 1955	2.1	(b)(5)	USAF	
374AW	C130H	41685	F908QR	LMZF908QR072	300	RJCI	1073 0020	RJSI	1073 0140	1.3	(b)(5)	USAF	
374AW	C130H	41685	F908QR	LVZF908QR073	400	RJSI	1073 0153	RJTY	1073 0304	1.2	(b)(5)	USAF	
374AW	C130H	41690	F909QR	LJZF909QR072	200	RODN	1072 2305	RKTN	1073 0150	2.7	(b)(5)	USAF	
374AW	C130H	41690	F909QR	LMZF909QR073	300	RKTN	1073 0254	RJSM	1073 0532	2.6	(b)(5)	USAF	
374AW	C130H	41690	F909QR	LVZF909QR073	400	RJSM	1073 0626	RJTY	1073 0800	1.6	(b)(5)	USAF	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
374AW	C130H	42131	F910QR	LJZF910QR073	200	RJTY	1073 0139	RKTN	1073 0400	2.4		(b)(5)	USAF	
374AW	C130H	42131	F910QR	LMZF910QR073	300	RKTN	1073 0517	RJSM	1073 0750	2.5			USAF	
374AW	C130H	42131	F910QR	LVZF910QR073	400	RJSM	1073 0832	RJTY	1073 1010	1.6			USAF	
3WG	C17A	171	F914QR	LJZF914QR073	100	RJTY	1073 1513	RODN	1073 1756	2.7			USAF	
3WG	C17A	171	F914QR	LMZF914QR073	300	RODN	1073 2113	RJSM	1073 2355	2.7			USAF	LJ056
3WG	C17A	171	F914QR	LVZF914QR074	400	RJSM	1074 0115	RJTY	1074 0220	1.1			USAF	
374AW	C130H	41668	F915QR	LJZF915QR073	100	RJTY	1073 1950	RJCJ	1073 2140	1.8			USAF	
374AW	C130H	41668	F915QR	LMZF915QR073	300	RJCJ	1074 0013	RJSM	1074 0100	0.8			USAF	JTT02
374AW	C130H	41668	F915QR	LVZF915QR073	400	RJSM	1074 0159	RJTY	1074 0330	1.5			USAF	
374AW	C130H	41685	F916QR	LJZF916QR073	100	RJTY	1073 1811	RJCJ	1073 1955	1.7			USAF	
374AW	C130H	41685	F916QR	LMZF916QR073	300	RJCJ	1074 0340	RJSM	1074 0435	0.9			USAF	JTT02
374AW	C130H	41685	F916QR	LVZF916QR074	400	RJSM	1074 0609	RJTY	1074 0737	1.5			USAF	
374AW	C130H	41685	F917QR	LJZF917QR074	100	RJTY	1074 2325	RKPK	1075 0250	3.4			USAF	LJ094
374AW	C130H	41685	F917QR	LMZF917QR075	200	RKPK	1075 0420	RJSM	1075 0700	2.7			USAF	LJX09
374AW	C130H	41685	F917QR	LVZF917QR075	300	RJSM	1075 0838	RJTY	1075 1015	1.6		(b)(5)	USAF	
374AW	C130H	41684	F919QR	LMZF919QR074	100	RJTY	1074 1421	RJSC	1074 1525	1.1			USAF	LJ016
374AW	C130H	41684	F919QR	LVZF919QR075	200	RJSC	1074 1653	RJTY	1074 1810	1.3			USAF	
374AW	C130H	41684	F920QR	LMZF920QR074	100	RJTY	1074 2100	RJSC	1074 2200	1			USAF	LJ016
374AW	C130H	41684	F920QR	LVZF920QR074	200	RJSC	1074 2251	RJTY	1074 2355	1.1			USAF	
15WG	C17A	55147	F920QR	LJZF920QR084	100	PGUA	1084 2117	RJTY	1085 0059	3.7			USAF	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
15WG	C17A	55147	F920QR	LJZF920QR084	300	RJTY	1085 0624	RJSM	1085 0742	1.3		(b)(5)	USAF	LJB50,LJ300,KJ005
15WG	C17A	55147	F920QR	LMZF920QR085	400	RJSM	1085 1043	RKJK	1085 1319	2.6			USAF	JHJ202
374AW	C130H	41690	F921QR	LJZF921QR074	100	RJTY	1074 1703	RODN	1074 2125	4.4			USAF	
374AW	C130H	41690	F921QR	LMZF921QR075	200	RODN	1075 0345	RJTY	1075 0635	2.8			USAF	LJ068
374AW	C130H	42131	F922QR	LJZF922QR074	100	RJTY	1074 1743	RODN	1074 2157	4.2			USAF	
374AW	C130H	42131	F922QR	LMZF922QR075	200	RODN	1075 0100	RJTY	1075 0332	2.5			USAF	LJ068
374AW	C130H	42131	F923QR	LJZF923QR075	100	RJTY	1075 0909	RODN	1075 1316	4.1			USAF	
374AW	C130H	42131	F923QR	LMZF923QR075	200	RODN	1075 1605	RJTY	1075 1850	2.7			USAF	KBLKT
3WG	C17A	171	F925QR	LJZF925QR075	100	RJTY	1075 0918	RJFF	1075 1110	1.9			USAF	
3WG	C17A	171	F925QR	LMZF925QR075	200	RJFF	1075 1228	RJTY	1075 1339	1.2			USAF	03F92501
3WG	C17A	171	F926QR	LJZF926QR075	100	RJTY	1075 2021	RODN	1075 2326	3.1			USAF	
3WG	C17A	171	F926QR	LMZF926QR076	200	RODN	1076 0452	RJTY	1076 0702	2.2			USAF	392601
3WG	C17A	171	F927QR	LJZF927QR076	100	RJTY	1076 1106	RODN	1076 1354	2.8		(b)(5)	USAF	
3WG	C17A	171	F927QR	LMZF927QR076	200	RODN	1076 1709	RJTY	1076 1912	2.1			USAF	392702
3WG	C17A	171	F928QR	LJZF928QR076	100	RJTY	1076 2320	RODN	1077 0147	2.5			USAF	
3WG	C17A	171	F928QR	LMZF928QR077	200	RODN	1077 0418	RJTY	1077 0617	2			USAF	392803
3WG	C17A	171	F929QR	LJZF929QR077	100	RJTY	1077 1235	RODN	1077 1523	2.8			USAF	
3WG	C17A	171	F929QR	LMZF929QR077	200	RODN	1077 1803	RJTY	1077 1958	1.9			USAF	392904

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
374AW	C130H	41690	F930QR	LMZF930QR075	100	RJTY	1075 2349	RODN	1076 0400	4.2	(b)(5)	USAF	LI098
374AW	C130H	41690	F930QR	LMZF930QR075	200	RODN	1076 0555	RJTY	1076 0913	3.3		USAF	
374AW	C130H	41690	F930QR	LMZF930QR075	225	RJTY	1076 1127	RJSM	1076 1310	1.7		USAF	
374AW	C130H	42131	F930QR	LJZF930QR087	100	RJTY	1087 2300	RJCJ	1088 0047	1.8		USAF	
374AW	C130H	42131	F930QR	LMZF930QR088	200	RJCJ	1088 0151	RJSI	1088 0250	1		USAF	JTT71
374AW	C130H	42131	F930QR	LVZF930QR088	300	RJSI	1088 0405	RJTY	1088 0519	1.2		USAF	
374AW	C130H	41690	F931QR	LMZF931QR076	100	RJSM	1076 1458	RJTY	1076 1750	2.9		USAF	
374AW	C130H	41685	F931QR	LMZF931QR076	150	RJTY	1076 2334	RODN	1077 0305	3.5		USAF	
374AW	C130H	41685	F931QR	LMZF931QR076	200	RODN	1077 0559	RJTY	1077 0910	3.2		USAF	LI098
374AW	C130H	41685	F931QR	LMZF931QR076	225	RJTY	1077 1148	RJSM	1077 1318	1.5	(b)(5)	USAF	
374AW	C130H	41685	F931QR	LVZF931QR077	325	RJSM	1077 1440	RJTY	1077 1620	1.7		USAF	
374AW	C130H	42070	F931QR	LJZF931QR088	100	RJTY	1087 2358	RJCJ	1088 0205	2.1		USAF	
374AW	C130H	42070	F931QR	LMZF931QR088	200	RJCJ	1088 0304	RJST	1088 0415	1.2		USAF	JTT71
374AW	C130H	42070	F931QR	LVZF931QR088	300	RJST	1088 0538	RJTY	1088 0655	1.3		USAF	JA01 01
374AW	C130H	42131	F932QR	LMZF932QR075	100	RJTY	1075 2302	RJSC	1076 0005	1.1		USAF	
374AW	C130H	42131	F932QR	LJZF932QR076	200	RJSC	1076 0120	RJTY	1076 0225	1.1		USAF	
15WG	C17A	55147	F933QR	LJZF933QR076	100	VTUD	1077 0123	RJTY	1077 0907	7.7		USAF	
374AW	C130H	41658	F933QR	LMZF933QR086	100	RJTY	1086 0124	RJSS	1086 0230	1.1		USAF	4, LJA03, LJA07
374AW	C130H	41658	F933QR	LJZF933QR086	200	RJSS	1086 0240	RJTY	1086 0340	1		USAF	
3WG	C17A	174	F934QR	LJZF934QR076	100	VTUD	1076 2312	RODN	1077 0501	5.8		USAF	



UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
3WG	C17A	174	F934QR	LMZF934QR077	200	RODN	1077 0805	RJTY	1077 1012	2.1		(b)(5)	USAF	
374AW	C130H	41684	F935QR	LMZF935QR077	100	RJTY	1077 1834	RJSS	1077 1950	1.3			USAF	
374AW	C130H	41684	F935QR	LMZF935QR077	300	RJSS	1077 2038	RJSC	1077 2115	0.6			USAF	
374AW	C130H	41684	F935QR	LMZF935QR077	400	RJSC	1077 2241	RJSS	1077 2310	0.5			USAF	
374AW	C130H	41684	F935QR	LMZF935QR077	500	RJSS	1078 0006	RJTY	1078 0105	1			USAF	
374AW	C130H	42131	F938QR	LMZF938QR077	100	RJTY	1077 1552	RJSS	1077 1700	1.1			USAF	
374AW	C130H	42131	F938QR	LMZF938QR077	300	RJSS	1077 1718	RJTY	1077 1825	1.1			USAF	
374AW	C130H	42131	F938QR	LMZF938QR077	400	RJTY	1077 2104	RJSS	1077 2205	1			USAF	
374AW	C130H	42131	F938QR	LMZF938QR077	500	RJSS	1077 2241	RJTY	1077 2342	1			USAF	
374AW	C130H	42131	F938QR	LMZF938QR077	600	RJTY	1078 0124	RJSS	1078 0230	1.1			USAF	
374AW	C130H	42131	F938QR	LVZF938QR078	700	RJSS	1078 0250	RJTY	1078 0353	1.1			USAF	
374AW	C130H	42071	F939QR	LJZF939QR078	100	RJTY	1078 0753	RODN	1078 1138	3.7			USAF	
374AW	C130H	42071	F939QR	LMZF939QR078	200	RODN	1078 1406	RJTY	1078 1659	2.9			USAF	
374AW	C130H	42071	F939QR	LMZF939QR078	300	RJTY	1078 2009	RJSM	1078 2145	1.6			USAF	
374AW	C130H	42071	F940QR	LJZF940QR078	100	RJSM	1078 2317	RJTY	1079 0055	1.6		(b)(5)	USAF	
374AW	C130H	42071	F940QR	LJZF940QR078	150	RJTY	1079 0339	RODN	1079 0741	4			USAF	
374AW	C130H	42071	F940QR	LMZF940QR079	200	RODN	1079 0929	RJTY	1079 1245	3.3			USAF	
374AW	C130H	42071	F940QR	LMZF940QR079	300	RJTY	1079 1542	RJSM	1079 1705	1.4			USAF	
374AW	C130H	41658	F940QR	LMZF940QR086	300	RJTY	1086 0628	RJSS	1086 0730	1			USAF	LJA02,LJA01
374AW	C130H	41658	F940QR	LVZF940QR086	400	RJSS	1086 0743	RJTY	1086 0855	1.2			USAF	
15WG	C17A	55152	F941QR	LMZF941QR086	100	RJTY	1086 1527	RJSS	1086 1610	0.7			USAF	LBI55

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
15WG	C17A	55152	F941QR	LVZF941QR086	200	RJSS	1086 1650	RJSM	1086 1735	0.7		(b)(5)	USAF	
374AW	C130H	41692	F942QR	LMZF942QR088	100	RJTY	1087 0746	RJSS	1087 0900	1.2			USAF	LJ861
374AW	C130H	41692	F942QR	LVZF942QR088	700	RJSS	1087 0949	RJTY	1087 1050	1			USAF	
15WG	C17A	55152	F943QR	LJZF943QR087	100	RJTY	1087 0620	RODN	1087 0907	2.8			USAF	
15WG	C17A	55152	F943QR	LMZF943QR087	200	RODN	1087 1120	RJSS	1087 1340	2.3			USAF	LJ856
15WG	C17A	55152	F943QR	LVZF943QR087	300	RJSS	1087 1409	RJTY	1087 1445	0.6			USAF	
374AW	C130H	41692	F944QR	LMZF944QR088	100	RJTY	1088 0451	RJSS	1088 0605	1.2			USAF	LJA10,LJA11
374AW	C130H	41692	F944QR	LVZF944QR088	200	RJSS	1088 0610	RJTY	1088 0725	1.3			USAF	
15WG	C17A	171	F945QR	LJZF945QR078	100	RJTY	1078 0532	RJTA	1078 0545	0.2			USAF	
15WG	C17A	171	F945QR	LMZF945QR078	150	RJTA	1078 0815	RODN	1078 1009	1.9			USAF	
15WG	C17A	171	F945QR	LMZF945QR078	200	RODN	1078 1214	RJTY	1078 1415	2			USAF	M3AA 05
374AW	C130H	41668	F945QR	LMZF945QR089	100	RJTY	1089 0342	RJSS	1089 0455	1.2			USAF	LJA19,LJA18
374AW	C130H	41668	F945QR	LVZF945QR089	200	RJSS	1089 0652	RJTY	1089 0800	1.1		(b)(5)	USAF	
374AW	C130H	42066	F947QR	LJZF947QR088	300	RJTY	1088 0953	RJST	1088 1115	1.4			USAF	
374AW	C130H	42066	F947QR	LMZF947QR088	400	RJST	1088 1132	RJTY	1088 1240	1.1			USAF	JA01 01
374AW	C130H	42066	F948QR	LMZF948QR088	100	RJTY	1088 2049	RJSS	1088 2155	1.1			USAF	3
374AW	C130H	42066	F948QR	LVZF948QR088	200	RJSS	1088 2206	RJTY	1088 2307	1			USAF	
374AW	C130H	42131	F951QR	LMZF951QR078	100	RJTY	1079 0001	RJSM	1079 0130	1.5			USAF	
374AW	C130H	42131	F951QR	LMZF951QR078	150	RJSM	1079 0208	RJTY	1079 0345	1.6			USAF	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
374AW	C130H	42131	F951QR	LMZF951QR078	200	RJTY	1079 0546	RJSM	1079 0725	1.6		(b)(5)	USAF	
374AW	C130H	42131	F951QR	LVZF951QR079	300	RJSM	1079 0810	RJTY	1079 0949	1.6			USAF	
374AW	C130H	42071	F956QR	LJZF956QR079	100	RJSM	1079 1826	RODN	1079 2320	4.9			USAF	
374AW	C130H	42071	F956QR	LMZF956QR079	200	RODN	1080 0054	RJTY	1080 0405	3.2			USAF	
374AW	C130H	42071	F956QR	LMZF956QR079	300	RJTY	1080 0556	RJSM	1080 0718	1.4			USAF	
374AW	C130H	42071	F957QR	LJZF957QR080	100	RJSM	1080 0920	RJTY	1080 1105	1.7			USAF	
374AW	C130H	42071	F957QR	LMZF957QR080	300	RJTY	1080 1543	RODN	1080 1955	4.2			USAF	
374AW	C130H	42071	F957QR	LMZF957QR080	350	RODN	1080 2209	RJTY	1081 0055	2.8			USAF	
374AW	C130H	42071	F957QR	LMZF957QR080	375	RJTY	1081 0502	RJSM	1081 0640	1.6			USAF	
374AW	C130H	42071	F957QR	LVZF957QR081	400	RJSM	1081 0807	RJTY	1081 0950	1.7			USAF	
374AW	C130H	41658	F958QR	LMZF958QR095	100	RJTY	1095 1106	RJSM	1095 1252	1.8			USAF	KJ006IU
374AW	C130H	41658	F958QR	LVZF958QR095	200	RJSM	1095 1331	RJTY	1095 1507	1.6			USAF	
374AW	C130H	41658	F966QR	LMZF966QR080	100	RJTY	1080 0617	RJTA	1080 0655	0.6			USAF	JTT43
374AW	C130H	41658	F966QR	LVZF966QR080	200	RJTA	1080 0720	RJTY	1080 0755	0.6		(b)(5)	USAF	
374AW	C130H	41658	F967QR	LMZF967QR080	300	RJTY	1080 0821	RJTA	1080 0905	0.7			USAF	
374AW	C130H	41658	F967QR	LVZF967QR080	400	RJTA	1080 0934	RJTY	1080 1000	0.4			USAF	
374AW	C130H	41690	F969QR	LJZF969QR080	100	RJTY	1080 1758	RJTI	1080 1821	0.4			USAF	JTT39
374AW	C130H	41690	F969QR	LMZF969QR080	150	RJTI	1080 1940	RJST	1080 2055	1.3			USAF	
374AW	C130H	41690	F969QR	LMZF969QR080	200	RJST	1080 2125	RJTY	1080 2300	1.6			USAF	
15WG	C17A	174	F970QR	LJZF970QR081	100	RJTY	1080 2340	PGUA	1081 0300	3.3			USAF	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
15WG	C17A	174	F970QR	LMZF970QR081	300	PGUA	1081 0523	RODN	1081 0905	3.7		(b)(5)	USAF	LJ281
15WG	C17A	174	F971QR	LMZF971QR083	500	PGUA	1083 0743	RJTY	1083 1123	3.7			USAF	LJ278
15WG	C17A	55147	F972QR	LJZF972QR080	100	RJTY	1080 2312	PGUA	1081 0235	3.4			USAF	
15WG	C17A	55148	F972QR	LMZF972QR082	300	PGUA	1082 0239	RJSM	1082 0654	4.3			USAF	LJ282
15WG	C17A	55148	F973QR	LJZF973QR081	100	RJTY	1081 1745	PGUA	1081 2129	3.7			USAF	
15WG	C17A	55148	F973QR	LMZF973QR082	300	PGUA	1083 0200	RJSM	1083 0610	4.2			USAF	LRF19
15WG	C17A	55148	F973QR	LVZF973QR083	400	RJSM	1083 1234	RJTY	1083 1348	1.2			USAF	
15WG	C17A	174	F974QR	LJZF974QR082	400	RODN	1082 0140	PGUA	1082 0440	3			USAF	
15WG	C17A	174	F974QR	LMZF974QR082	500	PGUA	1082 0643	RODN	1082 1005	3.4			USAF	LRF15
15WG	C17A	174	F974QR	LVZF974QR083	600	RODN	1083 0223	PGUA	1083 0516	2.9			USAF	
374AW	C130H	42131	F975QR	LJZF975QR081	100	RJTY	1081 0653	RJSS	1081 0755	1			USAF	
374AW	C130H	42131	F975QR	LMZF975QR081	200	RJSS	1081 0828	RJTY	1081 0950	1.4			USAF	JPLT1
374AW	C130H	42131	F975QR	LMZF975QR081	300	RJTY	1081 1207	RODN	1081 1605	4			USAF	
374AW	C130H	42131	F975QR	LMZF975QR081	400	RODN	1081 1726	RJTY	1081 2015	2.8		(b)(5)	USAF	
15WG	C17A	55148	F981QR	LMZF981QR081	100	RJTY	1081 0847	RJSS	1081 0930	0.7			USAF	LJ255
15WG	C17A	55148	F981QR	LMZF981QR081	300	RJSS	1081 1057	RJTY	1081 1138	0.7			USAF	
15WG	C17A	55148	F989QR	LJZF989QR082	400	RJSM	1082 0852	RJTA	1082 0959	1.1			USAF	
15WG	C17A	55148	F989QR	LMZF989QR082	500	RJTA	1082 1131	RJTY	1082 1144	0.2			USAF	JTT33
15WG	C17A	55148	F989QR	LMZF989QR082	550	RJTY	1082 1902	PGUA	1082 2226	3.4			USAF	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
374AW	C130H	41690	F993QR	LMZF993QR083	100	RJTY	1083 0527	RJSM	1083 0706	1.6		(b)(5)	USAF	U286
374AW	C130H	41690	F993QR	LVZF993QR083	150	RJSM	1083 0836	RJTY	1083 1000	1.4			USAF	
374AW	C130H	41658	F997QR	LMZF997QR083	100	RJTY	1083 0920	RJSS	1083 1025	1.1			USAF	
374AW	C130H	41658	F997QR	LVZF997QR083	200	RJSS	1083 1035	RJTY	1083 1145	1.2			USAF	
374AW	C130H	41692	F998QR	LJZF998QR084	100	RJTY	1083 2303	RJSC	1084 0001	1			USAF	
374AW	C130H	41692	F998QR	LMZF998QR084	200	RJSC	1084 0215	RJTY	1084 0339	1.4			USAF	U017
374AW	C130H	42071	F999QR	LJZF999QR084	100	RJTY	1084 0041	RJSC	1084 0150	1.2			USAF	
374AW	C130H	42071	F999QR	LMZF999QR084	150	RJSC	1084 0445	RJTY	1084 0555	1.2			USAF	U016
374AW	C130H	42131	J003QR	LJZJ003QR092	100	RJTY	1092 0425	RJSM	1092 0616	1.8				
374AW	C130H	42131	J003QR	LMZJ003QR092	200	RJSM	1092 0825	RJTY	1092 1005	1.7				JTT74
374AW	C130H	41668	J004QR	LMZJ004QR092	100	RJTY	1092 2320	RJOI	1093 0120	2		(b)(5)		JTT75
374AW	C130H	41668	J004QR	LMZJ004QR092	200	RJOI	1093 0511	RJTY	1093 0640	1.5				JTT75
3WG	C17A	174	J008QR	LMZJ008QR095	100	RJTY	1095 0407	RODN	1095 0633	2.4				JTC24,U002,LX03
15WG	C17A	174	J900QR	LJZJ900QR084	100	RJTY	1084 0306	RJOI	1084 0450	1.7				JTT49
15WG	C17A	174	J900QR	LMZJ900QR084	300	RJOI	1084 0837	RJTY	1084 1110	2.5				
15WG	C17A	174	J900QR	LMZJ900QR084	350	RJTY	1084 2307	RJSS	1084 2355	0.8				
15WG	C17A	174	J900QR	LVZJ900QR084	400	RJSS	1085 0045	RJTY	1085 0148	1.1				
374AW	C130H	41692	J903QR	LMZJ903QR084	100	RJTY	1084 0643	RJSS	1084 0755	1.2				JTT49
374AW	C130H	41692	J903QR	LVZJ903QR084	200	RJSS	1084 0813	RJTY	1084 0920	1.1				

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
374AW	C130H	41692	J904QR	LMZJ904QR084	100	RJTY	1084 1121	RJTY	1084 1415	2.9	(b)(5)		
374AW	C130H	42071	J905QR	LMZJ905QR084	100	RJTY	1084 1027	RJSS	1084 1140	1.2		JTT49	
374AW	C130H	42071	J905QR	LVZJ905QR084	200	RJSS	1084 1200	RJTY	1084 1310	1.2			
374AW	C130H	41692	J906QR	LMZJ906QR084	100	RJTY	1084 2126	RJSS	1084 2249	1.4		01,JTT49-02	
374AW	C130H	41692	J906QR	LVZJ906QR084	200	RJSS	1084 2258	RJTY	1084 2357	1			
374AW	C130H	41692	J907QR	LMZJ907QR085	300	RJTY	1085 0204	RJSS	1085 0312	1.1			
374AW	C130H	41692	J907QR	LVZJ907QR085	400	RJSS	1085 0324	RJTY	1085 0426	1			
374AW	C130H	41692	J908QR	LMZJ908QR085	500	RJTY	1085 0646	RJSS	1085 0800	1.2			
374AW	C130H	41692	J908QR	LVZJ908QR085	600	RJSS	1085 0828	RJTY	1085 0935	1.1			
374AW	C130H	41668	J909QR	LMZJ909QR084	100	RJTY	1084 2328	RJSS	1085 0040	1.2		02,JTT49-01	
374AW	C130H	41668	J909QR	LVZJ909QR085	200	RJSS	1085 0115	RJTY	1085 0200	0.7			
374AW	C130H	41668	J910QR	LMZJ910QR085	300	RJTY	1085 0345	RJSS	1085 0500	1.3			
374AW	C130H	41668	J910QR	LVZJ910QR085	400	RJSS	1085 0527	RJTY	1085 0642	1.3	(b)(5)		
374AW	C130H	41668	J911QR	LMZJ911QR085	500	RJTY	1085 1029	RJSS	1085 1140	1.2			
374AW	C130H	41668	J911QR	LVZJ911QR085	600	RJSS	1085 1216	RJTY	1085 1320	1.1			
15WG	C17A		J925QR	LMZJ925QR085	700	RJTY		RJSS		0			
15WG	C17A		J925QR	LVZJ925QR085	750	RJSS		RJTY		0			

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
374AW	C130H	42071	J926QR	LJZJ926QR085	100	RJTY	1085 2338	RJTA	1086 0010	0.5	(b)(5)		
374AW	C130H	42071	J926QR	LMZJ926QR086	200	RJTA	1086 0254	RJTY	1086 0410	1.3		JTT49	
374AW	C130H	42071	J926QR	LMZJ926QR086	250	RJTY	1086 0625	PGUA	1086 1130	5.1			
374AW	C130H	42071	J926QR	LVZJ926QR087	300	PGUA	1087 0348	RJTY	1087 0846	5		4, L304	
3WG	C17A	171	J927QR	LJZJ927QR086	100	RJTY	1086 0035	RJTA	1086 0100	0.4			
3WG	C17A	171	J927QR	LMZJ927QR086	200	RJTA	1086 0447	PGUA	1086 0825	3.6		JTT69	
3WG	C17A	171	J927QR	LMZJ927QR086	300	PGUA	1086 1003	RJTY	1086 1336	3.5			
15WG	C17A	533	J929QR	LMZJ929QR087	100	YSRI	1087 2329	PGUA	1088 0945	10.3		JTT6502	
15WG	C17A	533	J929QR	LMZJ929QR087	150	PGUA	1088 1133	RJTY	1088 1500	3.5			
15WG	C17A	55150	J929QR	LVZJ929QR089	200	RJTY	1089 1548	YSRI	1090 0344	11.9			
374AW	C130H	41684	J932QR	LJZJ932QR085	100	RJTY	1085 2302	RJOI	1086 0045	1.7			
374AW	C130H	41684	J932QR	LMZJ932QR086	200	RJOI	1086 0309	RJSS	1086 0520	2.2		JTT72	
374AW	C130H	41684	J932QR	LVZJ932QR086	300	RJSS	1086 0536	RJTY	1086 0700	1.4			
374AW	C130H	42131	J934QR	LJZJ934QR085	100	RJTY	1085 2307	RJOI	1086 0055	1.8			
374AW	C130H	42131	J934QR	LMZJ934QR086	200	RJOI	1086 0212	RJTY	1086 0340	1.5	(b)(5)	JTT70	
374AW	C130H	42131	J935QR	LJZJ935QR086	300	RJTY	1086 0558	RJOI	1086 0735	1.6			
374AW	C130H	42131	J935QR	LMZJ935QR086	400	RJOI	1086 0903	RJTY	1086 1040	1.6		JTT70	
374AW	C130H	41658	J936QR	LJZJ936QR086	100	RJTY	1086 2254	RJOI	1087 0040	1.8			
374AW	C130H	41658	J936QR	LMZJ936QR087	200	RJOI	1087 0130	RJTY	1087 0305	1.6		JTT70	
374AW	C130H	41658	J937QR	LJZJ937QR087	300	RJTY	1087 0420	RJOI	1087 0600	1.7			

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST		SVC	RQMT ID
374AW	C130H	41658	J937QR	LMZJ937QR087	400	RJOI	1087 0700	RJTY	1087 0820	1.3		(b)(5)		JTT70
374AW	C130H	41690	J941QR	LMZJ941QR078	100	RJTY	1078 0027	RJAH	1078 0058	0.5				
374AW	C130H	41690	J941QR	LJZJ941QR078	200	RJAH	1078 0131	RJTY	1078 0210	0.6				
374AW	C130H	41690	J942QR	LMZJ942QR078	300	RJTY	1078 0318	RJAH	1078 0355	0.6				
374AW	C130H	41690	J942QR	LVZJ942QR078	400	RJAH	1078 0413	RJTY	1078 0450	0.6				
374AW	C130H	41684	J944QR	LJZJ944QR078	100	RJTY	1078 0518	RODN	1078 0905	3.8				
374AW	C130H	41684	J944QR	LMZJ944QR078	200	RODN	1078 1112	RJTY	1078 1437	3.4				
3WG	C17A	171	J946QR	LJZJ946QR088	100	RJTY	1088 0756	RJTA	1088 0804	0.1				
3WG	C17A	171	J946QR	LMZJ946QR088	200	RJTA	1088 1046	PGUA	1088 1414	3.5			JTT33	
3WG	C17A	171	J946QR	LVZJ946QR088	300	PGUA	1088 1600	RJTY	1088 1931	3.5				
374AW	C130H	41690	J948QR	LMZJ948QR078	100	RJTY	1078 0909	RJSI	1078 1035	1.4			JTT24	
374AW	C130H	41690	J948QR	LMZJ948QR078	200	RJSI	1078 1110	RJSS	1078 1155	0.7				
374AW	C130H	41690	J948QR	LVZJ948QR078	300	RJSS	1078 1232	RJTY	1078 1340	1.1		(b)(5)		
3WG	C17A	171	J949QR	LMZJ949QR079	100	RJTY	1079 2338	RJSS	1080 0045	1.1			JTT28	
3WG	C17A	171	J949QR	LVZJ949QR080	200	RJSS	1080 0130	RJTY	1080 0218	0.8				
15WG	C17A	55149	J950QR	LJZJ950QR079	100	RJTY	1079 1241	PHIK	1079 2035	7.9				
15WG	C17A	55149	J950QR	LMZJ950QR079	200	PHIK	1080 0042	RJTY	1080 0934	8.9				LJZ59
15WG	C17A	55148	J952QR	LMZJ952QR080	100	PHIK	1080 0130	RJTY	1080 1012	8.7			JICRE01	



UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
3WG	C17A	174	J953QR	LMZJ953QR079	100	RJTY	1079 0443	RJSS	1079 0540	0.9		(b)(5)	
3WG	C17A	174	J953QR	LVZJ953QR079	150	RJSS	1079 0650	RJTY	1079 0726	0.6			
3WG	C17A	171	J954QR	LMZJ954QR079	100	RJTY	1079 0809	RJTY	1079 1107	2.6			JTT30
374AW	C130H	41692	J955QR	LMZJ955QR079	100	RJTY	1079 0602	RJAH	1079 0700	1			
374AW	C130H	41692	J955QR	LVZJ955QR079	200	RJAH	1079 0734	RJTY	1079 0810	0.6			
374AW	C130H	42066	J960QR	LJZJ960QR079	100	RJTY	1079 0540	RJCJ	1079 0745	2.1			
374AW	C130H	42066	J960QR	LMZJ960QR079	200	RJCJ	1079 0845	RJSI	1079 1015	1.5			JTT31
374AW	C130H	42066	J960QR	LVZJ960QR079	300	RJSI	1079 1120	RJTY	1079 1256	1.6			
374AW	C130H	41692	J962QR	LJZJ962QR079	100	RJTY	1079 1803	RJTJ	1079 1820	0.3			
374AW	C130H	41692	J962QR	LMZJ962QR079	150	RJTJ	1079 1921	RJSI	1079 2035	1.2			JTT29
374AW	C130H	41692	J962QR	LVZJ962QR079	200	RJSI	1079 2125	RJTY	1079 2300	1.6			
15WG	C17A	55147	J963QR	LJZJ963QR079	100	RJTY	1079 2047	RJTA	1079 2107	0.3		(b)(5)	
15WG	C17A	55147	J963QR	LMZJ963QR080	200	RJTA	1080 0056	RJTY	1080 0108	0.2			
15WG	C17A	55147	J963QR	LMZJ963QR080	300	RJTY	1080 0409	RJSM	1080 0512	1.1			JTT41
15WG	C17A	55147	J963QR	LMZJ963QR080	400	RJSM	1080 0655	RJTY	1080 0815	1.3			
374AW	C130H	41692	J964QR	LMZJ964QR080	100	RJTY	1080 0113	RJSM	1080 0245	1.5			JTT41
374AW	C130H	41692	J964QR	LVZJ964QR080	150	RJSM	1080 0326	RJTY	1080 0515	1.8			
374AW	C130H	41658	J976QR	LJZJ976QR082	100	RJTY	1082 0439	RJCJ	1082 0635	1.9			
374AW	C130H	41658	J976QR	LMZJ976QR082	200	RJCJ	1082 0819	RJST	1082 0940	1.4			JTT47

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
374AW	C130H	41658	J977QR	LJZJ977QR082	300	RJST	1082 1002	RJTY	1082 1119	1.3	(b)(5)		
374AW	C130H	41684	M016QR	LMZM016QR097	100	RJTY	1097 0020	ROTM	1097 0405	3.7		MARINE	M3BA01
374AW	C130H	41684	M016QR	LVZM016QR097	200	ROTM	1097 0628	RJTY	1097 0935	3.1		MARINE	
60AMW	C17A	66161	M102QR	PJZM102QR077	100	KSUU	1077 1550	KNKX	1077 1706	1.3		MARINE	
60AMW	C17A	66161	M102QR	PMZM102QR077	200	KNKX	1077 2013	RJTA	1078 0925	13.2		MARINE	M1C2 01
60AMW	C17A	66161	M102QR	PVZM102QR079	450	RJTA	1079 0443	PGUA	1079 0805	3.4		MARINE	
60AMW	C17A	66161	M102QR	PVZM102QR079	600	PGUA	1080 0620	KSUU	1080 1709	10.8		MARINE	
62AW	C17A	181	M103QR	PJZM103QR076	100	KTCM	1076 1555	KVBG	1076 1810	2.3		MARINE	
62AW	C17A	181	M103QR	PMZM103QR076	200	KVBG	1076 2343	RJTY	1077 1222	12.7		MARINE	JTT15
62AW	C17A	181	M104QR	PJZM104QR078	50	RJTY	1078 0641	PHIK	1078 1435	7.9		MARINE	
62AW	C17A	181	M104QR	PMZM104QR078	100	PHIK	1078 1808	PGUA	1079 0155	7.8		MARINE	M3AA 04
62AW	C17A	181	M104QR	PMZM104QR078	200	PGUA	1079 1919	RJTY	1079 2250	3.5		MARINE	
62AW	C17A	181	M104QR	PVZM104QR080	300	RJTY	1080 0144	KTCM	1080 1125	9.7		MARINE	
452AMW	C17A	55144	M106QR	XJZM106QR086	350	RPMZ	1086 0115	RPLC	1086 0300	1.7	(b)(5)	MARINE	
452AMW	C17A	55144	M106QR	XMZM106QR086	400	RPLC	1086 0510	RJTY	1086 0844	3.6		MARINE	M3AA 06
452AMW	C17A	55144	M106QR	XMZM106QR086	500	RJTY	1087 0414	RPLC	1087 0910	4.9		MARINE	
452AMW	C17A	55144	M106QR	XMZM106QR086	600	RPLC	1087 1111	RJTY	1087 1452	3.7		MARINE	M3AA 06
452AMW	C17A	55144	M106QR	XVZM106QR087	700	RJTY	1087 1642	PHIK	1087 2330	6.8		MARINE	
452AMW	C17A	55144	M111QR	XMZM111QR088	100	PHIK	1088 1749	RJSM	1089 0235	8.8		MARINE	M3AS 02
452AMW	C17A	55144	M111QR	XVZM111QR089	225	RJSM	1089 0559	PHIK	1089 1340	7.7		MARINE	
452AMW	C17A	55144	M111QR	XVZM111QR090	300	PHIK	1091 1848	KRIV	1092 0028	5.7		MARINE	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
305AMW	C17A	44133	M113QR	AJZM113QR090	100	KWRI	1090 2003	KADW	1090 2105	1	(b)(5)	MARINE	
305AMW	C17A	44133	M113QR	AMZM113QR090	200	KADW	1091 0138	PAED	1091 0910	7.5	(b)(5)	MARINE	JANC 02
305AMW	C17A	44133	M113QR	AMZM113QR090	350	PAED	1091 1719	RJTY	1092 0222	9.1	(b)(5)	MARINE	
305AMW	C17A	44133	M113QR	AVZM113QR093	400	RJTY	1092 0515	PAED	1092 1139	6.4	(b)(5)	MARINE	
											(b)(5)		
105AW	CSA	80226	M114QR	JJZM114QR091	100	KSWF	1091 1854	KADW	1091 2000	1.1	(b)(5)	MARINE	
105AW	CSA	80226	M114QR	JMZM114QR091	200	KADW	1092 0051	PAED	1092 0820	7.5	(b)(5)	MARINE	BAGS
105AW	CSA	80226	M114QR	JMZM114QR091	300	PAED	1093 0127	RJTY	1093 1006	8.6	(b)(5)	MARINE	
105AW	CSA	80226	M114QR	JVZM114QR093	400	RJTY	1093 1406	PHIK	1093 2055	6.8	(b)(5)	MARINE	
105AW	CSA	445	M114QR	JVZM114QR093	700	PHIK	1096 2228	KSKF	1097 0540	7.2	(b)(5)	MARINE	
											(b)(5)		
433AW	CSA	90006	M115QR	XJZM115QR091	100	KSKF	1091 2311	KADW	1092 0220	3.2	(b)(5)	MARINE	
433AW	CSA	90006	M115QR	XMZM115QR092	200	KADW	1092 2228	KDOV	1092 2333	1.1	(b)(5)	MARINE	JANC 03 ,BAGS
433AW	CSA	90006	M115QR	XMZM115QR092	312	KDOV	1093 0412	PAED	1093 1231	8.3	(b)(5)	MARINE	
433AW	CSA	90006	M115QR	XMZM115QR092	319	PAED	1094 1025	RJTY	1094 1847	8.4	(b)(5)	MARINE	
433AW	CSA	90006	M115QR	XVZM115QR094	400	RJTY		PAED		0	(b)(5)	MARINE	
											(b)(5)		
439AW	CSB	60021	M116QR	XJZM116QR091	100	KCEF	1091 2044	KADW	1091 2200	1.3	(b)(5)	MARINE	
439AW	CSB	60021	M116QR	XMZM116QR092	200	KADW	1092 0437	PAED	1092 1237	8	(b)(5)	MARINE	
439AW	CSB	60021	M116QR	XMZM116QR092	300	PAED	1094 1817	KCEF	1095 0107	6.8	(b)(5)	MARINE	
											(b)(5)		
305AMW	C17A	44133	M117QR	AMZM117QR092	100	PAED	1092 2248	RJTY	1093 0740	8.9	(b)(5)	MARINE	JANC 03
305AMW	C17A	44133	M117QR	AVZM117QR093	200	RJTY	1094 0245	PAED	1094 0941	6.9	(b)(5)	MARINE	
305AMW	C17A	44133	M117QR	AVZM117QR093	300	PAED	1094 1203	KWRI	1094 1920	7.3	(b)(5)	MARINE	
											(b)(5)		
3WG	C17A	90167	M118QR	LMZM118QR092	100	PAED	1093 0212	RJTY	1093 1024	8.2	(b)(5)	MARINE	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
15WG	C17A	55152	M912QR	LJZM912QR085	150	RJTY	1085 2120	RODN	1086 0017	2.9	(b)(5)	MARINE	
15WG	C17A	55152	M912QR	LMZM912QR086	300	RODN	1086 0428	RJSS	1086 0635	2.1		MARINE	M3DAC1
15WG	C17A	55152	M912QR	LVZM912QR086	400	RJSS	1086 0712	RJTY	1086 0834	1.4		MARINE	
374AW	C130H	41692	M913QR	LJZM913QR086	100	RJTY	1086 0104	RODN	1086 0518	4.2		MARINE	
374AW	C130H	41692	M913QR	LMZM913QR086	200	RODN	1086 0632	RODN	1086 0805	1.5		MARINE	M3DA C1
374AW	C130H	41692	M913QR	LMZM913QR086	250	RODN	1086 0858	RJSS	1086 1230	3.5		MARINE	
374AW	C130H	41692	M913QR	LVZM913QR086	300	RJSS	1086 1243	RJTY	1086 1400	1.3		MARINE	
3WG	C17A	171	M965QR	LMZM965QR080	100	RJTY	1080 0746	RJSS	1080 0830	0.7		MARINE	M3AA 13
3WG	C17A	171	M965QR	LVZM965QR080	200	RJSS	1080 0947	RJTY	1080 1030	0.7		MARINE	
374AW	C130H	42131	M991QR	LJZM991QR082	100	RJTY	1082 2351	RJOI	1083 0200	2.2		MARINE	
374AW	C130H	42131	M991QR	LMZM991QR083	150	RJOI	1083 0424	RJSS	1083 0632	2.1		MARINE	M3AA 11
374AW	C130H	42131	M991QR	LMZM991QR083	225	RJSS	1083 0707	RJTY	1083 0810	1.1		MARINE	
374AW	C130H	42071	M992QR	LMZM992QR082	100	RJTY	1082 2347	RJSS	1083 0050	1.1		MARINE	U302
374AW	C130H	42071	M992QR	LVZM992QR083	150	RJSS	1083 0145	RJTY	1083 0245	1		MARINE	
374AW	C130H	41668	M996QR	LMZM996QR083	125	RODN	1083 1150	RJSS	1083 1525	3.6	(b)(5)	MARINE	M3DAC1
374AW	C130H	41668	M996QR	LVZM996QR083	150	RJSS	1083 1535	RJTY	1083 1650	1.3		MARINE	
Per Jack Pugh/A3, These KC-135s missions are TWCF													
18WG	KC135R	334	F106QN	CMZF106QN083	100	PAEI	1084 1550	KIKR	1084 2120	5.5		USAF	LT004
18WG	KC135R	334	F106QN	CVZF106QN084	200	KIKR	1084 2223	PAEI	1085 0342	5.3		USAF	

UNIT	MDS	TAIL	BASIC SIX	MISSION ID	SRT ID	DEP ICAO	DEP TIME	ARR ICAO	BLK IN TIME	HRS BILL ED	COST	SVC	RQMT ID
18WG	KC135R	38874	J962QR	CMZJ962QR079	100	PHIK	1079 1124	RJTA	1079 2013	8.8	(b)(5)		JNC0001
18WG	KC135R	38874	J963QR	CMZJ963QR080	100	RJTA	1080 2025	RODN	1080 2310	2.7			
18WG	KC135R	38874	J963QR	CJZJ963QR080	200	RODN	1081 0543	RJTA	1081 0735	1.9			
18WG	KC135R	38874	J963QR	CMZJ963QR081	300	RJTA	1081 0921	RODN	1081 1206	2.7			

	Japan Earthquake		Operation Tomodachi										
Bill payer	POC	Description	POC Name	Obligations Last Reported	Change	Estimated Cum Obligations	MISC NOTES		Amount Billed	Amount Collected	Bill Numbers	EXORD/FRAGO	
IDACA	AMC	Strategic Airlift - OH/DACA	Eileen Thoele	\$(b)(5)	\$(b)(5)	\$(b)(5)	PACOM will be pre-validating missions for AMC	TWCF	\$ -	\$ -	0		
		Strategic Airlift (SAAM) - USAID	Eileen Thoele				\$	\$	USAID Memo/JAA for DART/S&RT - believe it is: SAAM PJMS12301071 & AJMS12701071	TWCF	\$ -	\$ -	
USAID	AMC						\$	\$					
Private LPERS counts	AMC	Evacuate 9.6K Dependents	Eileen Thoele	\$	\$	\$	This cost is for 40 Contracted Airlift missions and will be billed after the flights are complete. Passenger rates will be charged.	TWCF	\$ -	\$ -			
	AMC	Total		\$	\$	\$			\$ -	\$ -			

USTC	GRAND TOTAL		\$ (b)(5)				\$	\$			

**From:** [Case, Michael](#)  
**To:** [Kammerer, Annie](#)  
**Subject:** FW: Atlantic Ocean Tsunamis  
**Date:** Wednesday, March 23, 2011 7:44:00 AM  
**Attachments:** [Re Haiti recent Fault.msg](#)

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FYI

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

**From:** [REDACTED] [mailto:[REDACTED]]  
**Sent:** Tuesday, March 22, 2011 12:06 PM  
**To:** Case, Michael; Rosenberg, Stacey  
**Cc:** Imboden, Andy; Attard, Anthony; Mendiola, Anthony  
**Subject:** RE: Atlantic Ocean Tsunamis

Hi Mike: Thanks for the NRC's info on tsunamis in the Atlantic and Caribbean ponds. Glad to see NRC's robust tsunami analyses with Woods Hole and NOAA (Seattle) involved.

The recent (2010) Haiti fault as well the 1918 Puerto Rico event interest me most as proximally they are at a striking distance for Turkey Point and St. Lucie in Florida (though magnitudes are more likely not comparable to western Pacific).

I went to Cornell for Grad School in the 80's, and I have been tutored by Geophysicists including Jack Oliver and Brian Isacks and structural/marine geologist Daniel Karig. Jack and Brian are considered as one of the many fathers of plate tectonics, mainly due to their work in subduction zones in the Pacific and Chile while Dan investigated plate margin tectonics / interactions (mainly accretion and jostling of plates) in the Philippines, Marianas, Indonesia, Turkey and Iran. These folks are heavy into plate motions, interactions and coupling.

Attach is my recent communication yesterday with one of their students, Dr. Eric Fielding (a geophysicist), who now works at NASA-JPL at Caltech. He studied the 2010 Haiti earthquake and noted some thrust component (i.e. some vertical slip). He also studied the plate motions on last week Japan's M9 and I happen to read his opinion below in one of the news clips (so I googled him and e-mailed him):

"...But last week's tremor changed the coastal landscape-and not just above sea level. It created a trench in the sea floor 380 km long and 190 km wide as one tectonic plate dove nine meters beneath another, said Eric Fielding of NASA's Jet Propulsion Laboratory."

This is huge motion (underthrusting) ~ 9 meters or 27 feet.

These geophysicists coming out of Cornell in the 80's know their plate and microplate motions (and can define possible coupling of blocks/plates/microplates). Their data can provide the tsunami experts some info (e.g. re-energy or magnitude, coupling of blocks, plate /micro-plate motions for wave propagation/generation) resulting from plate/fault block interactions. Eric indicated that Eric Calais at Perdue (or Purdue) and Paul Mann at UT Austin work on Caribbean tectonics but he is not sure if they look at tsunami issues (see attach e-mail). Another Cornell product that is very good in plate interactions is Dr. Michael Hamburger, now a Professor at Indiana University, he did a lot of research in the Philippines (western Pacific), a country so tectonically active it looks like Japan (subduction zones and volcanoes) and California (San Andreas Fault) combined; recently one of Mike students had published a very comprehensive paper that investigated coupling, movement and relative (micro)plate motions in the Philippines.

George

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

**From:** Case, Michael [mailto:[Michael.Case@nrc.gov](mailto:Michael.Case@nrc.gov)]  
**Sent:** Tuesday, March 22, 2011 6:14 AM


BA/20



To: Bacuta, George C Jr MVN; Rosenberg, Stacey  
Cc: Imboden, Andy; Attard, Anthony; Mendiola, Anthony  
Subject: RE: Atlantic Ocean Tsunamis

Thanks George. Attached is some info on some of our latest research on Tsunamis on the Atlantic side to support new reactor licensing.

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


From: Bacuta, George C Jr MVN [mailto:  
Sent: Monday, March 21, 2011 10:46 AM  
To: Rosenberg, Stacey  
Cc: Imboden, Andy; Attard, Anthony; Mendiola, Anthony; Case, Michael  
Subject: FW: Atlantic Ocean Tsunamis

Hi Stacey: Saw your pic at Operation Center, glad to know you are on the case. Saw the link also of NRC's FAQs on seismicity/subduction zones around CONUS.

You may want to add to address in a FAQ also on possible Atlantic tsunamis. In particular are the October 11, 1918 Puerto Rico (historical) and possible those transform faults at the Cuba/Haiti(recent)-Dominican Republic plates or micro-plates. Puerto Rico's is related to subduction zone tectonics as well a dip component at the Haiti transform faults may render the power plants in Florida (Miami-Homestead/Turkey Point area and Indian Point?/Jupiter? Area) and SE US vulnerable (see link below from the Geology Journal <http://geology.com/noaa/atlantic-ocean-tsunami/>). I cc-copy Mike Case since the FAQs (<http://www.nrc.gov/japan/faqs-related-to-japan.pdf>) may be coming from Research and NRO, and may miss the atlantic ocean tsunamis.

George

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

From: George Bacuta [mailto:  
Sent: Friday, March 18, 2011 8:22 PM  
To: Bacuta, George C Jr MVN  
Subject: Atlantic Ocean Tsunamis

Atlantic Ocean Tsunamis  
Maps of Atlantic Tsunami Travel Times  
Travel Time Maps Composed by NOAA using Tsunami Travel Time Software.

<http://geology.com/noaa/atlantic-ocean-tsunami/>

Atlantic Ocean Tsunamis: Rare but Possible

A tsunami in the Atlantic Ocean is a rare event. Part of the reason for this low incidence of tsunamis is the lack of subduction zones - the most common source of tsunami-causing earthquakes.

Although the incidence of Atlantic tsunamis is low the threat should be taken seriously because millions of people live in low-elevation locations around the rim of the Atlantic basin. The travel time maps below show that once a tsunami is generated the response time for mass evacuation can be uncomfortably short.

Subduction Zones

The only subduction zones in the Atlantic basin are along the eastern edge of the Caribbean Plate and the eastern edge of the Scotia Plate in the South Atlantic. These subduction zones are small, they are

not exceptionally active and that accounts for the low incidence of earthquake-generated tsunamis.

The magnitude 7.3 earthquake that occurred off the northwest coast of Puerto Rico on October 11, 1918 was a subduction zone earthquake. It generated a tsunami with a run-up height of 6 meters that cause extensive damage and killed over 100 people. A travel time map for this tsunami can be seen below.

#### Lisbon, Portugal - 1755

The most widely known Atlantic Ocean tsunami struck Lisbon, Portugal on November 1, 1755 . It was caused by a magnitude 8.6 earthquake beneath the floor of the Atlantic about 100 miles offshore. This earthquake and associated tsunami destroyed most of the city of Lisbon. Waves up to 12 meters high hit the coastlines of Spain and Portugal just minutes after this earthquake. Over nine hours later waves with seven meter runup heights arrived in the Caribbean and caused significant damage. The earthquake and tsunami killed between 60,000 and 100,000 people. A travel-time map for this tsunami is shown below.

#### Submarine Landslides

Submarine landslides have caused tsunamis in the Atlantic Ocean: On November 18, 1929, an earthquake on the southern edge of the Grand Banks, south of Newfoundland, triggered a large submarine landslide that generated a tsunami.

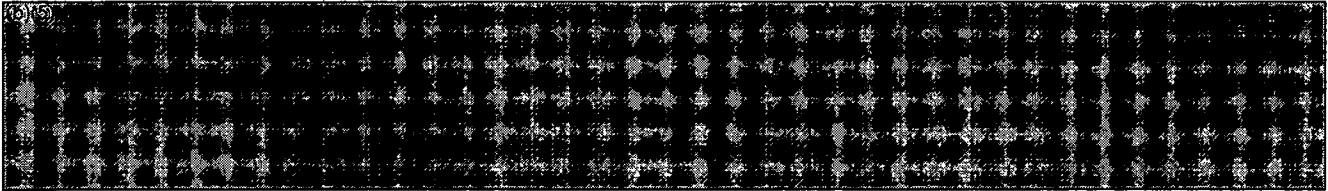
That tsunami was recorded all along the eastern coast of the United States and in the Caribbean. At least 28 people were killed in Newfoundland. A travel time map for this tsunami is shown below.

Some researchers believe that a large landslide in the Canary Islands could generate a tsunami with basin-wide impact. Faults on the southwest side of La Palma Island associated with Cumbre Vieja Volcano could be the detachment surface of a mega-landslide (see image at right).

Greenwood, Carol

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**From:** Gibson, Kathy  
**Sent:** Saturday, March 12, 2011 1:36 PM  
**To:** Sheron, Brian; Uhle, Jennifer  
**Subject:** Fw: \*\*\*NRC IS RESPONDING TO AN EMERGENCY OUTSIDE OF THE UNITED STATES\*\*



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**From:** Huffert, Anthony  
**To:** Gibson, Kathy  
**Sent:** Sat Mar 12 09:12:30 2011  
**Subject:** RE: \*\*\*NRC IS RESPONDING TO AN EMERGENCY OUTSIDE OF THE UNITED STATES\*\*

My information would be outdated since 9 hours have past since I left the Ops Ctr - there was supposed to be a hi-level coordination meeting this morning among Federal agencies to discuss status and next steps. My understanding was that (projected) dose assessment information was to play a role in the information exchange.

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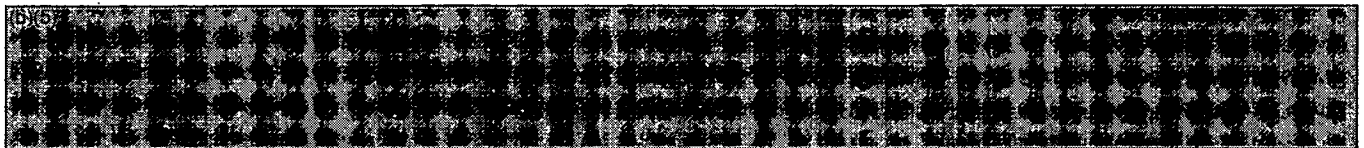
**From:** Gibson, Kathy  
**Sent:** Saturday, March 12, 2011 7:42 AM  
**To:** Huffert, Anthony  
**Subject:** RE: \*\*\*NRC IS RESPONDING TO AN EMERGENCY OUTSIDE OF THE UNITED STATES\*\*

Thanks Tony. Do you have any information about the Japanese plants that you can share? Status of reactors and releases?

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**From:** Huffert, Anthony  
**To:** Gibson, Kathy  
**Cc:** Scott, Michael; Bush-Goddard, Stephanie; Sheron, Brian  
**Sent:** Sat Mar 12 07:39:20 2011  
**Subject:** FW: \*\*\*NRC IS RESPONDING TO AN EMERGENCY OUTSIDE OF THE UNITED STATES\*\*

Kathy,



Past PMT training and exercise participation proved to be very useful.

Tony

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**From:** Operations Center Bulletin  
**Sent:** Friday, March 11, 2011 3:03 PM  
**To:** Operations Center Bulletin  
**Subject:** \*\*\*NRC IS RESPONDING TO AN EMERGENCY OUTSIDE OF THE UNITED STATES\*\*

BC/21

**THIS IS NOT A DRILL.**

The NRC and other Federal agencies are closely following an emergency occurring outside of the United States. Press releases about NRC actions are posted on [www.nrc.gov](http://www.nrc.gov). Information is also available on the NRC External Blog at: <http://public-blog.nrc-gateway.gov>. Employees contacted by the media are asked to refer the calls to the Office of Public Affairs at 301-415-8200

Two important reminders:

It is possible that some of us will be requested by colleagues in another country to provide technical advice and assistance during this emergency. It is essential that all such communications be handled through the NRC Operations Center. Any assistance to a foreign government or entity must be coordinated through the NRC Operations Center and the U.S. Department of State (DOS). If you receive such a request, contact the NRC Operations Officer (301-816-5100 or via the NRC Operator) immediately.

If you receive information regarding this or any emergency (foreign or domestic) and you are not certain that the NRC's Incident Response Operations Officer is already aware of that information, you should contact the NRC Operations Officer (301-816-5100 or via the NRC Operator) and provide that information.

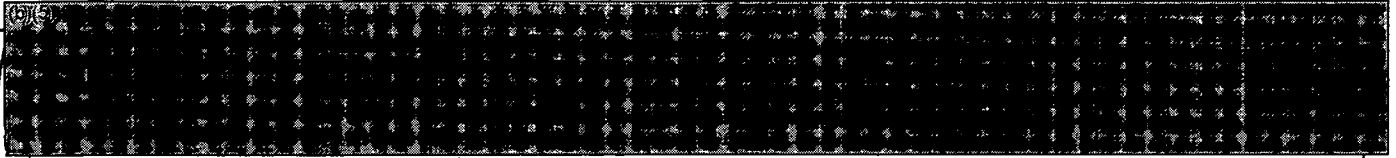
No response to this message is required.

**THIS IS NOT A DRILL**

Greenwood, Carol

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From: Gibson, Kathy  
Sent: Saturday, March 12, 2011 4:41 PM  
To: Gavrilas, Mirela  
Subject: Re: Have you heard who is going to japan?



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

From: Gavrilas, Mirela  
To: Gibson, Kathy  
Sent: Sat Mar 12 16:34:29 2011  
Subject: Re: Have you heard who is going to japan?

I'll try to find out. But I think we should be sending severe accident experts...

I think the worse is over but I would not be surprised one bit to hear the vessel was breached.

It will be amazingly positive if you had that large a number of plants exposed to this big an earthquake and the consequences are so small when compared to other consequences.

I'm keeping my fingers crossed. I can't help but think of the poor folk who are at those plants.

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

From: Gibson, Kathy  
To: Gavrilas, Mirela  
Sent: Sat Mar 12 15:50:39 2011  
Subject: Have you heard who is going to japan?

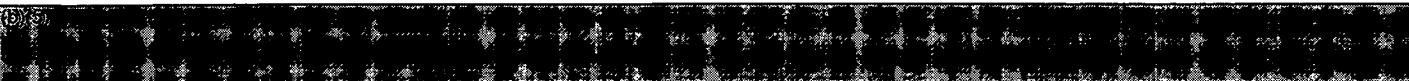
News and NRC website says we are sending 2 BWR experts. Do you know who?

BC/22

Greenwood, Carol

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**From:** Gibson, Kathy  
**Sent:** Sunday, March 13, 2011 1:48 PM  
**To:** Voglewede, John  
**Subject:** Re: From Tokai, Japan



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

**From:** Voglewede, John  
**To:** Gibson, Kathy  
**Cc:** Lee, Richard; Scott, Harold; Flanagan, Michelle; Raynaud, Patrick; Uhle, Jennifer  
**Sent:** Sun Mar 13 07:58:13 2011  
**Subject:** FW: From Tokai, Japan

A bit of personal news from Japan. Toyo seems to be okay.

I wonder how he managed to get on the Internet.

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

**From:** [t7o3y1o@docomo.ne.jp](mailto:t7o3y1o@docomo.ne.jp) [<mailto:t7o3y1o@docomo.ne.jp>]  
**Sent:** Sunday, March 13, 2011 5:46 AM  
**To:** [billone@anl.com](mailto:billone@anl.com); [martin.zimmermann@psi.ch](mailto:martin.zimmermann@psi.ch); [David.Schrire@vattenfall.com](mailto:David.Schrire@vattenfall.com); Voglewede, John  
**Subject:** From Tokai, Japan

Dear all,

It was a really disastrous event,



No power, no water supply in Tokai area for the moment, but we are surviving anyway.

We know about the events in NPPs only from mobile TVs.

Best regards,

Toyo

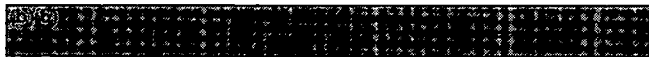
BC/23

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Sunday, March 13, 2011 2:21 PM  
**To:** Gavrilas, Mirela  
**Subject:** Re: Tony Ulises is one of the folk going to Japan. Hope you're feeling better. (eom)

I am, thanks. John V got a message from Toyo Fuketa -



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

**From:** Gavrilas, Mirela  
**To:** Gibson, Kathy  
**Sent:** Sun Mar 13 14:14:11 2011  
**Subject:** Tony Ulises is one of the folk going to Japan. Hope you're feeling better. (eom)

BC/24

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 12:51 AM  
**To:** Scott, Michael  
**Subject:** Monday

Mike,

(b)(6) Would you check with the BCs and see who they identified to fill in for Ken while he helps Pat write the SOARCA part of the Level III paper.

Also if you meet with NRR/NRO, please let them know that a revised charter for the Fuels Technical Advisory Group is forthcoming for their concurrence. It was developed by the TAG members and I am reviewing it. Patrick Raynaud is our cognizant staff.

Let me know if you hear any details about the situation in Japan. I will be checking bberry.

See you Tues,  
K

BC/25



Greenwood, Carol

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From: Gibson, Kathy  
Sent: Monday, March 14, 2011 7:51 AM  
To: Scott, Michael  
Subject: Re: Monday

I heard Tony Ulises is on his way to Japan.

(b)(6)

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

From: Scott, Michael  
To: Gibson, Kathy  
Sent: Mon Mar 14 06:05:04 2011  
Subject: Re: Monday

Will do. I'm wondering, given the Chmn is talking to congress this week, if we'll get tapped to provide some support on Japan. Fuels or health effects, perhaps.

Sent from my NRC blackberry  
Michael Scott

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

From: Gibson, Kathy  
To: Scott, Michael  
Sent: Mon Mar 14 00:51:03 2011  
Subject: Monday

Mike

Would you check with the BCs and see who they identified to fill in for Ken while he helps Pat write the SOARCA part of the Level III paper.

Also if you meet with NRR/NRO, please let them know that a revised charter for the Fuels Technical Advisory Group is forthcoming for their concurrence. It was developed by the TAG members and I am reviewing it. Patrick Raynaud is our cognizant staff.

Let me know if you hear any details about the situation in Japan. I will be checking bberry.

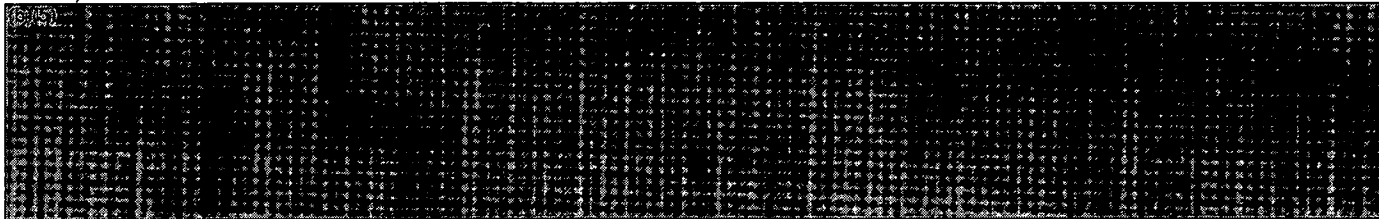
See you Tues,  
K

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Saturday, March 12, 2011 2:47 PM  
**To:** Lien, Peter  
**Subject:** Re: Press Release: NRC Continues to Track Earthquake and Tsunami Issues

Peter,



K

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

**From:** Lien, Peter  
**To:** Gibson, Kathy  
**Sent:** Sat Mar 12 14:34:09 2011  
**Subject:** RE: Press Release: NRC Continues to Track Earthquake and Tsunami Issues

Kathy,

I have been tracking the event progression of the Japanese nuclear crisis through CNN. I was wondering if we have a MELCOR model similar to the Japanese plant. It might be meaningful to simulate the station blackout event with diesel generator failures. We might be asked about this scenario in the future.

Peter \_\_\_\_\_

**From:** Gibson, Kathy  
**Sent:** Friday, March 11, 2011 4:29 PM  
**To:** RES\_DSA  
**Subject:** Fw: Press Release: NRC Continues to Track Earthquake and Tsunami Issues

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**From:** Sheron, Brian  
**To:** Bonaccorso, Amy; Calvo, Antony; Case, Michael; Coe, Doug; Correia, Richard; Dion, Jeanne; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Rini, Brett; Sangimino, Donna-Marie; Uhle, Jennifer; Valentin, Andrea  
**Sent:** Fri Mar 11 16:27:08 2011  
**Subject:** FW: Press Release: NRC Continues to Track Earthquake and Tsunami Issues

**From:** OPA Resource  
**Sent:** Friday, March 11, 2011 4:26 PM  
**To:** Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric;

BC/27

Lépre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffry; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason  
Subject: Press Release: NRC Continues to Track Earthquake and Tsunami Issues

The attached to be issued and posted in approximately 15 minutes.

Office of Public Affairs  
US Nuclear Regulatory Commission  
301-415-8200  
[opa.resource@nrc.gov](mailto:opa.resource@nrc.gov)

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 8:16 AM  
**To:** Gibson, Raymond  
**Subject:** Fw: Japan's Nuclear Plant Status

The website below and NEI website have the best info.

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

**From:** Gibson, Kathy  
**To:** Scott, Michael; RES\_DSA  
**Sent:** Mon Mar 14 08:08:13 2011  
**Subject:** Re: Japan's Nuclear Plant Status

Here's the NISA website:

<http://www.nisa.meti.go.jp/english/index.html>

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

**From:** Gibson, Kathy  
**To:** Scott, Michael; RES\_DSA  
**Sent:** Mon Mar 14 08:03:22 2011  
**Subject:** Re: Japan's Nuclear Plant Status

I have found the NISA (Japan's nuclear regulatory agency) and NEI websites to be the most informative. Also John Voglewede heard from Toyo Fuketa, one of our JAEA colleagues - 



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

**From:** Scott, Michael  
**To:** RES\_DSA  
**Sent:** Mon Mar 14 07:47:41 2011  
**Subject:** Japan's Nuclear Plant Status

Good morning.

I know you have heard a lot in the press about the challenging situation for the reactors in Japan nearby last week's quake. NRC does not post status on these reactors. A good clearinghouse for information on the status of the Japanese reactors can be found on the website of the American Nuclear Society at:

<http://ansnuclearcafe.org/>

At least one of the DSA staff (Tony Huffert) has been called in as the NRC Command Center has been partially stood up to provide whatever support we can to Japan. It is possible more of us will be tapped as the event progresses. I'm sure we all share concern about this event and its impacts, and want to do all we can to help.

Mike

BC/28

**Greenwood, Carol**

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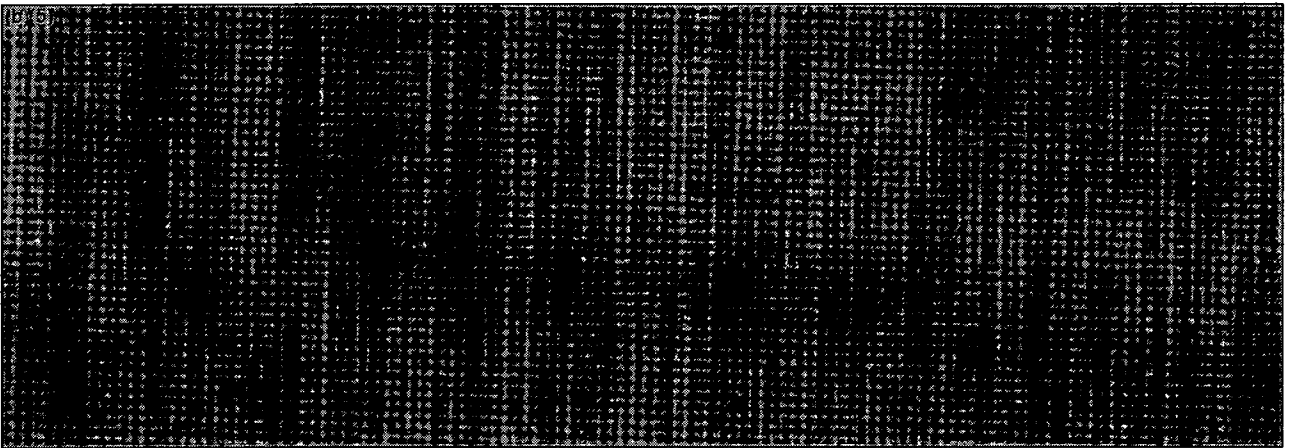
**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 10:56 AM  
**To:** Sheron, Brian; Uhle, Jennifer  
**Cc:** Scott, Michael  
**Subject:** Fw: NRO Meeting - Update on Japan's NPPs

You probably already know this, but just in case...

---

**From:** Zaki, Tarek  
**To:** Gibson, Kathy; Scott, Michael  
**Sent:** Mon Mar 14 10:24:28 2011  
**Subject:** NRO Meeting - Update on Japan's NPPs

No items of interest from today's NRO meeting except the update Mike J provided on the situation in Japan:

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Thanks,  
Tarek

BC/29

## Greenwood, Carol

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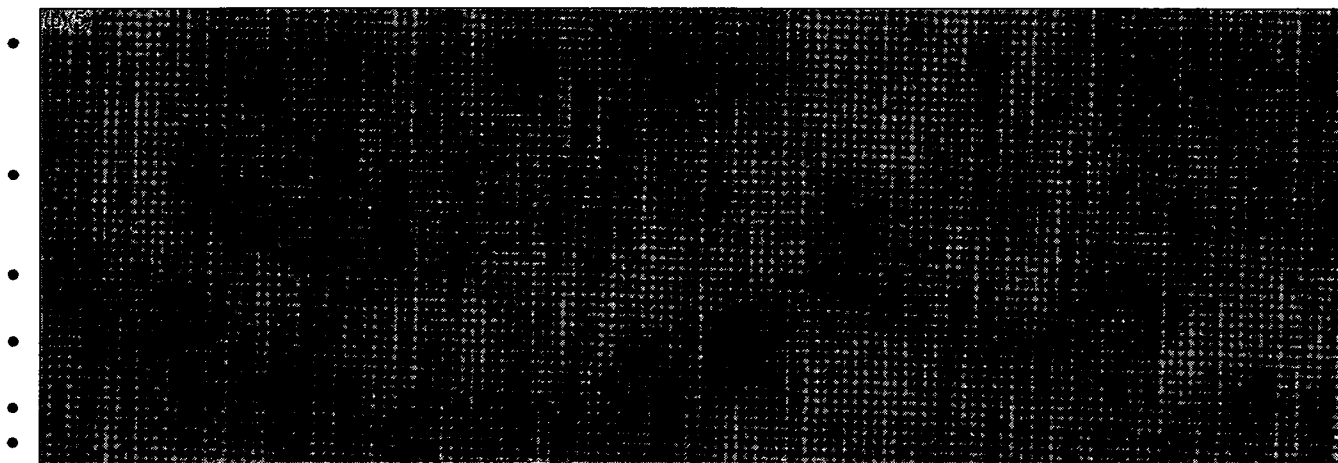
**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 10:57 AM  
**To:** Zaki, Tarek; Scott, Michael  
**Subject:** Re: NRO Meeting - Update on Japan's NPPs

Thanks Tarek, good info.

---

**From:** Zaki, Tarek  
**To:** Gibson, Kathy; Scott, Michael  
**Sent:** Mon Mar 14 10:24:28 2011  
**Subject:** NRO Meeting - Update on Japan's NPPs

No items of interest from today's NRO meeting except the update Mike J provided on the situation in Japan:



Thanks,  
Tarek

BC/30

## Greenwood, Carol

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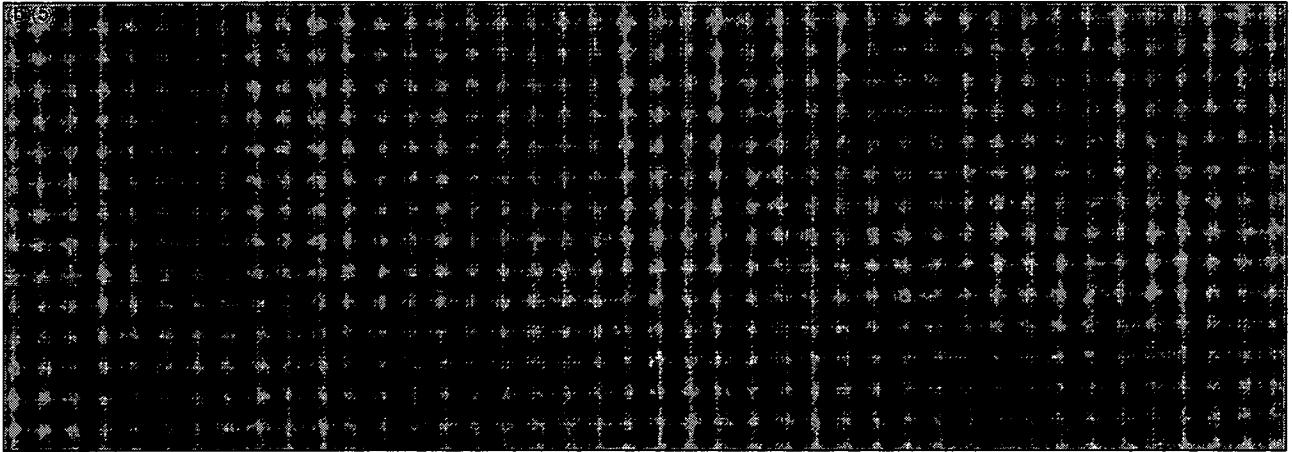
**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 10:59 AM  
**To:** Gavrilas, Mirela  
**Subject:** Fw: NRO Meeting - Update on Japan's NPPs

In case you haven't got this through another source ;-)

---

**From:** Zaki, Tarek  
**To:** Gibson, Kathy; Scott, Michael  
**Sent:** Mon Mar 14 10:24:28 2011  
**Subject:** NRO Meeting - Update on Japan's NPPs

No items of interest from today's NRO meeting except the update Mike J provided on the situation in Japan:

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Thanks,  
Tarek

BC/31

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 11:04 AM  
**To:** Tinkler, Charles  
**Subject:** Fw: Fukushima

Charlie,  
Have you heard of any problems with the spent fuel pools?

I guess these events should give us some ideas for future uses of SOARCA. Its amazing how when something happens people don't talk about risk analysis anymore but its all about consequence analysis (and how fast can you get it done).

K

---

**From:** Gavrilas, Mirela  
**To:** Gibson, Kathy; Case, Michael  
**Sent:** Mon Mar 14 10:00:14 2011  
**Subject:** Fw: Fukushima

Some information worth considering.

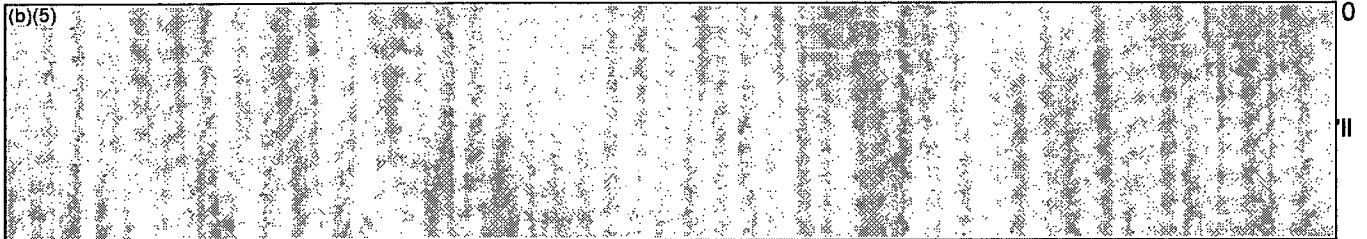
---

**From:** Farmer, Mitchell T. <[farmer@anl.gov](mailto:farmer@anl.gov)>  
**To:** Tinkler, Charles  
**Cc:** Basu, Sudhamay; Gavrilas, Mirela; Lee, Richard  
**Sent:** Mon Mar 14 09:52:24 2011  
**Subject:** RE: Fukushima

Hi Charlie,

I just wanted to send you a note and let you know that I'm a little concerned about the spent fuel storage pools for Units 1 and 3 for the reasons we've talked about over the years. I know you've probably thought of this but it's a stressful time and I just want to make sure the people you've deployed are thinking about this.

I doubt they have access inside the building due to radiation levels so I'm going to make a suggestion which may or may



I hope you don't mind me making suggestions and if it is problematic, please don't hesitate to let me know. Mirela has my cell phone; call me 24/7 if I can be of any assistance. As you know, you have resources here at the lab and I'm sure management would approve of us supporting you know.

Best Regards,  
Mitch

ps. (b)(5)  
(b)(6)

BC/32



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**From:** Tinkler, Charles [<mailto:Charles.Tinkler@nrc.gov>]  
**Sent:** Saturday, March 12, 2011 1:18 PM  
**To:** Farmer, Mitchell T.  
**Subject:** RE: Fukushima

Thanks Mitch, right now I don't know exactly why they are unable to use their isolation condenser or inject water. Thanks for the reminder on flooding. I appreciate your offer.

---

**From:** Farmer, Mitchell T. [<mailto:farmer@anl.gov>]  
**Sent:** Friday, March 11, 2011 7:43 PM  
**To:** Gavrilas, Mirela; Tinkler, Charles; Basu, Sudhamay; Lee, Richard  
**Cc:** Grandy, Christopher; 'corradin@cae.wisc.edu'  
**Subject:** Fukushima

Hi Mirela, Charlie, Sud, Richard,

Don't know if you are out there. I've been watching the situation at Fukushima and don't like what I'm seeing, at least based on the news reports I have access to. I don't know how long a BWR can go w/o emergency core cooling and not sustain significant core damage but it seems like we're well into that time domain. Is there anything that can be done to help? I don't know, I'm searching. The one thing we learned from MCCI though: if you fear vessel failure and you have any means to flood the cavity then you should do that. They have siliceous concrete in Japan; too much interaction ex-vessel w/o water and coolability is lost. Let me know if there is anything I can do.

Mitch

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 2:22 PM  
**To:** Sheron, Brian; Scott, Michael; Uhle, Jennifer  
**Subject:** Re: SNL response to NRC request to help Japan

Mike,  
I think you will have to answer this since you talked to them.

K

---

**From:** Sheron, Brian  
**To:** Gibson, Kathy; Scott, Michael; Uhle, Jennifer  
**Sent:** Mon Mar 14 14:19:19 2011  
**Subject:** RE: SNL response to NRC request to help Japan

I'm trying to interpret Susan's e-mail. Was Sandia going off and unilaterally making plane reservations? If so, why?

---

**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 2:08 PM  
**To:** Sheron, Brian; Scott, Michael; Uhle, Jennifer  
**Subject:** Re: SNL response to NRC request to help Japan

Thank you! I was hoping we weren't considering sacrificing SOARCA schedule and funding when I am certain there are other better alternatives! I am annoyed at Sandia's proposal.  
Ugh - over-the-top doesn't even begin to describe this...

---

**From:** Sheron, Brian  
**To:** Scott, Michael; Uhle, Jennifer; Gibson, Kathy  
**Sent:** Mon Mar 14 14:02:18 2011  
**Subject:** RE: SNL response to NRC request to help Japan

**Please don't put anyone on a plane!!!!!!!!!!!!!!**

All we were looking for was names and their potential availability. The agency has already selected the team of 6 they plan to send over.

---

**From:** Scott, Michael  
**Sent:** Monday, March 14, 2011 1:53 PM  
**To:** Uhle, Jennifer; Gibson, Kathy; Sheron, Brian  
**Subject:** Fw: SNL response to NRC request to help Japan

Forwarded is over-the-top Sandia support proposal.

Note: Dana Powers is in Rockville. I'm going to attempt to contact him.

Meanwhile, suggest we get Gauntt and Leonard on a plane. Do you know La Chance?

Sent from my NRC blackberry

BC/33

Michael Scott

(b)(6)

---

**From:** Pickering, Susan Y <sypicke@sandia.gov>

**To:** Scott, Michael

**Cc:** Orrell, Stanley A <sorrell@sandia.gov>; Gauntt, Randall O <rogaunt@sandia.gov>; Lachance, Jeffrey Lynn <jllacha@sandia.gov>; Ross, Kyle Wayne <kwross@sandia.gov>; Burns, Shawn <spburns@sandia.gov>

**Sent:** Mon Mar 14 13:04:54 2011

**Subject:** SNL response to NRC request to help Japan

Mike,

Per our phone calls, here is my proposal:

(b)(5)



Thank you for considering Sandia. We are ready to support NRC and Japan.

svn

Susan Y. Pickering  
Senior Manager, Nuclear Energy Safety Technologies  
P.O. Box 5800

Albuquerque, NM 87185-0736 ~  
Phone (505) 284-4800  
Fax (505) 844-0955  
Email: [sypicke@sandia.gov](mailto:sypicke@sandia.gov)

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 3:45 PM  
**To:** Uhle, Jennifer  
**Subject:** Re: SNL response to NRC request to help Japan

Who are the 6 going to japan?

---

**From:** Uhle, Jennifer  
**To:** Scott, Michael; Gibson, Kathy; Sheron, Brian; Case, Michael  
**Sent:** Mon Mar 14 14:01:26 2011  
**Subject:** RE: SNL response to NRC request to help Japan

No one from RES list is being asked to go. There may be another set of people later in the week, but for right now, everyone should stand down. Please thank everyone for their cooperation and willingness to help out. We really appreciate it. I will contact BNL but ask that DSA contact SNL. Thanks, J

---

**From:** Scott, Michael  
**Sent:** Monday, March 14, 2011 1:53 PM  
**To:** Uhle, Jennifer; Gibson, Kathy; Sheron, Brian  
**Subject:** Fw: SNL response to NRC request to help Japan

Forwarded is over-the-top Sandia support proposal.

Note: Dana Powers is in Rockville. I'm going to attempt to contact him.

Meanwhile, suggest we get Gauntt and Leonard on a plane. Do you know La Chance?

Sent from my NRC blackberry  
Michael Scott

(b)(6)

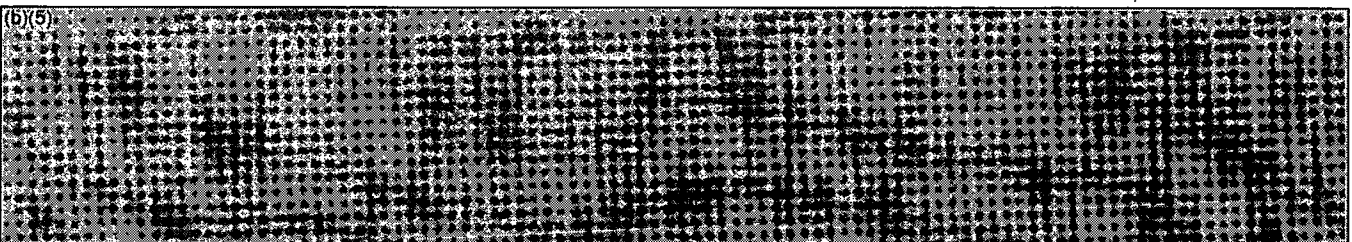
---

**From:** Pickering, Susan Y <sypicke@sandia.gov>  
**To:** Scott, Michael  
**Cc:** Orrell, Stanley A <sorrell@sandia.gov>; Gauntt, Randall O <rogaunt@sandia.gov>; Lachance, Jeffrey Lynn <jllacha@sandia.gov>; Ross, Kyle Wayne <kwross@sandia.gov>; Burns, Shawn <spburns@sandia.gov>  
**Sent:** Mon Mar 14 13:04:54 2011  
**Subject:** SNL response to NRC request to help Japan

Mike,

Per our phone calls, here is my proposal:

(b)(5)



BC/34



Thank you for considering Sandia. We are ready to support NRC and Japan.  
syp

Susan Y. Pickering  
Senior Manager, Nuclear Energy Safety Technologies  
P.O. Box 5800  
Albuquerque, NM 87185-0736  
Phone (505) 284-4800  
Fax (505) 844-0955  
Email: [sypicke@sandia.gov](mailto:sypicke@sandia.gov)

Greenwood, Carol

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**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 11:54 PM  
**To:** Skarda, Raymond; Uhle, Jennifer; Scott, Michael  
**Subject:** Re: Kotaro Tonoike and family

Thanks for passing this on to us Ray! We send Kotaro, his family and his colleagues our best wishes.

K

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

**From:** Skarda, Raymond  
**To:** Gibson, Kathy; Uhle, Jennifer; Scott, Michael  
**Sent:** Mon Mar 14 22:38:20 2011  
**Subject:** Kotaro Tonoike and family

I've just received a note at home from Kotaro Tonoike. [REDACTED] He remains on call at JAEA and is responsible of securing/safing STACY/TRACY facilities.

He notes, "I have heard a news that NRC will respond to the official request from Japanese Government to aid the counter actions at Fukushima NPPs. I would like to express personally my greatest gratitude. Please give our best regards to anyone participating the aid actions of NRC if you know."

Ray

BC/35

## Greenwood, Carol

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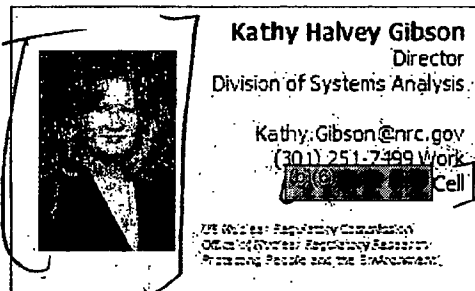
**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 10:46 AM  
**To:** McDermott, Brian; Morris, Scott  
**Cc:** Schaperow, Jason; Santiago, Patricia  
**Subject:** Jason Schaperow  
**Attachments:** Kathy Halvey Gibson.vcf

**Importance:** High

Brian, Scott,

Would one of you please call me? I want to see if we can make arrangements for Jason Schaperow to be taken off the Ops Center roster for the Japan response. He would be available for consultation and on call. We have a time sensitive project (SOARCA) that I need Jason to stay engaged with. I am working on identifying other staff in my division that could replace Jason on the Ops Center roster, but I know you also have lists of alternates and was hoping you might identify someone to fill the slot that Jason is currently scheduled.

Please let me know what can be done,  
Thanks,  
Kathy



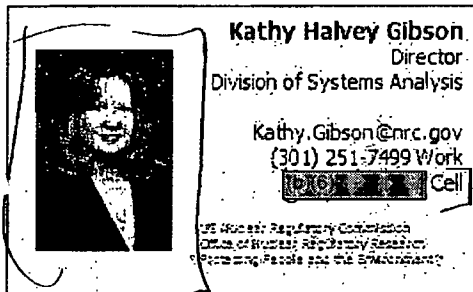
BC/36



**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 2:15 PM  
**To:** RES\_DSA  
**Subject:** FW: Press Release: NRC Analysis Continues to Support Japan's Protective Actions  
**Attachments:** 11-049.docx; Kathy Halvey Gibson.vcf



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**From:** Sheron, Brian  
**Sent:** Tuesday, March 15, 2011 2:14 PM  
**To:** Bonaccorso, Amy; Calvo, Antony; Case, Michael; Coe, Doug; Correia, Richard; Dion, Jeanne; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Rini, Brett; Sangimino, Donna-Marie; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: Press Release: NRC Analysis Continues to Support Japan's Protective Actions

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**From:** OPA Resource  
**Sent:** Tuesday, March 15, 2011 1:30 PM  
**To:** Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mityling, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffry; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason  
**Subject:** Press Release: NRC Analysis Continues to Support Japan's Protective Actions

Attaching the press release would be helpful!

To be issued and posted to the live web in 15 minutes.

Office of Public Affairs  
US Nuclear Regulatory Commission

BC/37

\*301-415-8200

[gpa.resource@nrc.gov](mailto:gpa.resource@nrc.gov)



# NRC NEWS

## U.S. NUCLEAR REGULATORY COMMISSION

Office of Public Affairs

Telephone: 301/415-8200

Washington, D.C. 20555-0001

E-mail: [opa.resource@nrc.gov](mailto:opa.resource@nrc.gov) Site: [www.nrc.gov](http://www.nrc.gov)

Blog: <http://public-blog.nrc-gateway.gov>

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No. 11-049

March 15, 2011

### NRC ANALYSIS CONTINUES TO SUPPORT JAPAN'S PROTECTIVE ACTIONS

NRC analysts overnight continued their review of radiation data related to the damaged Japanese nuclear reactors. The analysts continue to conclude the steps recommend by Japanese authorities parallel those the United States would suggest in a similar situation.

The Japanese authorities Monday recommended evacuation to 20 kilometers around the affected reactors and said that persons out to 30 kilometers should shelter in place.

Those recommendations parallel the protective actions the United States would suggest should dose limits reach 1 rem to the entire body and 5 rem for the thyroid, an organ particularly susceptible to radiation uptake.

A rem is a measure of radiation dose. The average American is exposed to approximately 620 millirems, or 0.62 rem, of radiation each year from natural and manmade sources.

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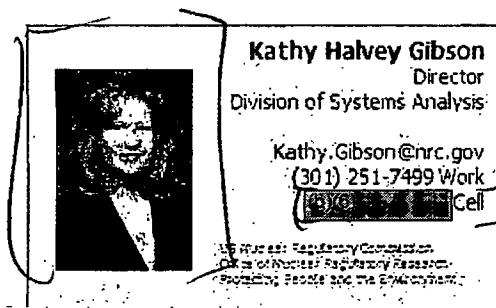
News releases are available through a free *listserv* subscription at the following Web address: <http://www.nrc.gov/public-involve/listserver.html>. The NRC homepage at [www.nrc.gov](http://www.nrc.gov) also offers a SUBSCRIBE link. E-mail notifications are sent to subscribers when news releases are posted to NRC's website.

## Greenwood, Carol

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**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 2:16 PM  
**To:** Sheron, Brian  
**Subject:** RE: Press Release: (Revised) NRC Sends Additional Experts to Assist Japan  
**Attachments:** Kathy Halvey Gibson.vcf

Do you have the names of who the 9 are?



---

**From:** Sheron, Brian  
**Sent:** Tuesday, March 15, 2011 2:04 PM  
**To:** Bonaccorso, Amy; Calvo, Antony; Case, Michael; Coe, Doug; Correia, Richard; Dion, Jeanne; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Rini, Brett; Sangimino, Donna-Marie; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: Press Release: (Revised) NRC Sends Additional Experts to Assist Japan

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**From:** OPA Resource  
**Sent:** Tuesday, March 15, 2011 11:41 AM  
**To:** Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffry; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason  
**Subject:** Press Release: (Revised) NRC Sends Additional Experts to Assist Japan

Attached to be released in approximately 15 minutes.

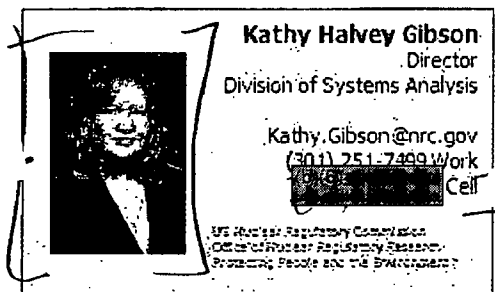
Office of Public Affairs  
US Nuclear Regulatory Commission  
301-415-8200  
opa.resource@nrc.gov

## Greenwood, Carol

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**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 6:08 PM  
**To:** Tinkler, Charles; Schaperow, Jason; Uhle, Jennifer  
**Subject:** FW: Fukushima  
**Attachments:** Kathy Halvey Gibson.vcf

For what it's worth...



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**From:** Gavrilas, Mirela  
**Sent:** Tuesday, March 15, 2011 4:56 PM  
**To:** Farmer, Mitchell T.  
**Cc:** Case, Michael; Gibson, Kathy  
**Subject:** RE: Fukushima

Thank you, Mitch. Good thinking.

M.

---

**From:** Farmer, Mitchell T. [mailto:farmer@anl.gov]  
**Sent:** Tuesday, March 15, 2011 4:54 PM  
**To:** Tinkler, Charles  
**Cc:** Basu, Sudhamay; Gavrilas, Mirela; Lee, Richard; Grandy, Christopher  
**Subject:** RE: Fukushima

Steve noticed in a washington post article a few minutes ago that from satellite photos they observed steam rising from the spent fuel pool at Unit 3 on Monday. Just thought you should know.

I wanted to try to put this in perspective not knowing much. Sensible heat is about 15 % of the total heat to boil, so if it took 3 days to start boiling, that would mean it would take 20 days to completely boil dry in the whole pool. Assuming that the total pool height is filled 1/3 of the way by the assemblies, with 2/3 of the water layer on top, then the time to boil down to the tops of the assemblies is of the order of  $(2/3) \cdot 20$  days or 13 days. This is a groping calculation but I know very little like total decay heat level in the pool and the initial water volume and height.

Mitch

---

**From:** Farmer, Mitchell T.  
**Sent:** Tuesday, March 15, 2011 8:58 AM  
**To:** 'Tinkler, Charles'

BC/39

**Cc:** 'Sud Basu'; Gavrilas, Mirela; 'Lee, Richard'

**Subject:** RE: Fukushima

Still worried about pools in 1-3, and whether or not they can gain access to these or the cooling water connections to these pools given the state of the plants. I was thinking about the approach for getting water into these a little more and would suggest that this could be done as an unmanned operation if you attached a pipe to the lift that was off sufficient length to clear the wall of the damaged exterior wall adjacent to the deck of the pool. With a 90 degree elbow on it, you could direct water down into (or at least towards) the pool. The operator could articulate the lift platform with the attached pipe over the wall remotely and once in position you could add water with a fire pump through an attached fire hose.

I don't know if this is helpful but it can't hurt. Although I feel somewhat knowledgeable about accident progression and accident management planning for the reactor, I wonder if the SAMGs also call for keeping track of the spent fuel pool while you are dealing with the reactor situation. If not, this could be a constructive lessons learned.

Again, let me know if you want me to stop..

Mitch

---

**From:** Farmer, Mitchell T.

**Sent:** Monday, March 14, 2011 8:52 AM

**To:** 'Tinkler, Charles'

**Cc:** 'Sud Basu'; Gavrilas, Mirela; Lee, Richard

**Subject:** RE: Fukushima

Hi Charlie,

I just wanted to send you a note and let you know that I'm a little concerned about the spent fuel storage pools for Units 1 and 3 for the reasons we've talked about over the years. I know you've probably thought of this but it's a stressful time and I just want to make sure the people you've deployed are thinking about this.

I doubt they have access inside the building due to radiation levels so I'm going to make a suggestion which may or may

(b)(5)



I hope you don't mind me making suggestions and if it is problematic, please don't hesitate to let me know. Mirela has my cell phone; call me 24/7 if I can be of any assistance. As you know, you have resources here at the lab and I'm sure management would approve of us supporting you know.

Best Regards,  
Mitch

ps. I wish we were further along on that remote sensing project for the RCIC that we just started for you; that could be quite helpful now.

---

**From:** Tinkler, Charles [mailto:Charles.Tinkler@nrc.gov]

**Sent:** Saturday, March 12, 2011 1:18 PM

**To:** Farmer, Mitchell T.  
**Subject:** RE: Fukushima

Thanks Mitch, right now I don't know exactly why they are unable to use their isolation condenser or inject water. Thanks for the reminder on flooding. I appreciate your offer.

---

**From:** Farmer, Mitchell T. [mailto:farmer@anl.gov]  
**Sent:** Friday, March 11, 2011 7:43 PM  
**To:** Gavrilas, Mirela; Tinkler, Charles; Basu, Sudhamay; Lee, Richard  
**Cc:** Grandy, Christopher; 'corradin@cae.wisc.edu'  
**Subject:** Fukushima

Hi Mirela, Charlie, Sud, Richard,

Don't know if you are out there. I've been watching the situation at Fukushima and don't like what I'm seeing, at least based on the news reports I have access to. I don't know how long a BWR can go w/o emergency core cooling and not sustain significant core damage but it seems like we're well into that time domain. Is there anything that can be done to help? I don't know, I'm searching. The one thing we learned from MCCI though: if you fear vessel failure and you have any means to flood the cavity then you should do that. They have siliceous concrete in Japan; too much interaction ex-vessel w/o water and coolability is lost. Let me know if there is anything I can do.

Mitch

## Greenwood, Carol

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**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:16 PM  
**To:** RES\_DSA  
**Subject:** FW: IRC Staffing  
**Attachments:** Kathy Halvey Gibson.vcf

**Importance:** High

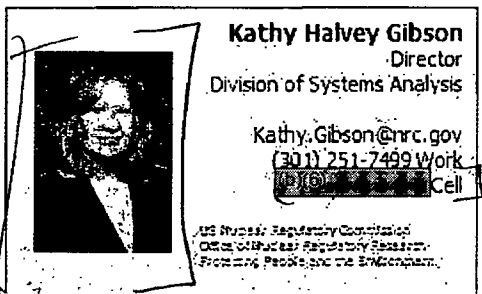
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- 2) If you are willing and able to go to Japan for 2 weeks. Indicate your availability to go at the end of the month or at some future time (dates to be negotiated). Also indicate your area(s) of expertise.

See below for details about this request.

Ken, please compile a list of the information you receive in response to this request for my review.

Thanks to all!



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**From:** Sheron, Brian  
**Sent:** Tuesday, March 15, 2011 5:27 PM  
**To:** Coyne, Kevin; Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Cc:** Dion, Jeanne  
**Subject:** IRC Staffing

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BC 40



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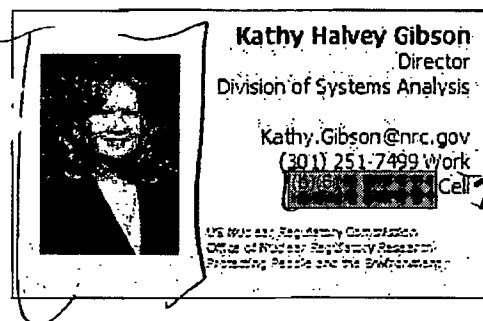
**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:23 PM  
**To:** Santiago, Patricia  
**Subject:** RE: IRC Staffing  
**Attachments:** Kathy Halvey Gibson2.vcf

Right now I am just gathering information. So Charlie and Jason should respond.

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**From:** Santiago, Patricia  
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**To:** Gibson, Kathy  
**Subject:** RE: IRC Staffing

No Jason or Charlie....correct?

Also we have asked about funding SNL to support the Japan questions that Jason and Charlie have been needing to respond to. Presently I don't believe it is too costly but should we be asking NSIR what funds they have to support vs using our SOARCA funds?

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Thanks

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**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:16 PM  
**To:** RES\_DSA  
**Subject:** FW: IRC Staffing  
**Importance:** High

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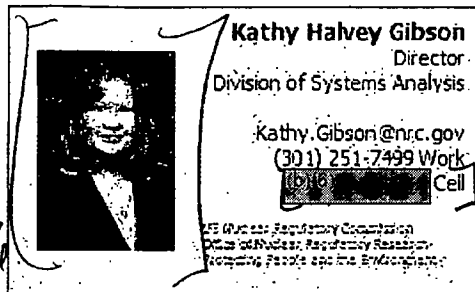
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See below for details about this request.

BC/41

Ken, please compile a list of the information you receive in response to this request for my review.

Thanks to all!



---

**From:** Sheron, Brian

**Sent:** Tuesday, March 15, 2011 5:27 PM

**To:** Coyne, Kevin; Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea

**Cc:** Dion, Jeanne

**Subject:** IRC Staffing

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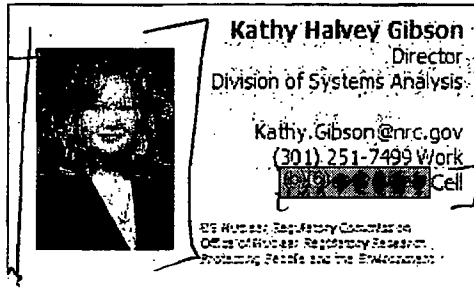
For the team that will replace the one that was just sent to Japan, she said she would like us to update the list we previously sent by COB 3/17.

**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:24 PM  
**To:** Santiago, Patricia  
**Subject:** RE: IRC Staffing  
**Attachments:** Kathy Halvey Gibson3.vcf

Yes, but just packing up to leave. ☺



---

**From:** Santiago, Patricia  
**Sent:** Tuesday, March 15, 2011 7:24 PM  
**To:** Gibson, Kathy  
**Subject:** RE: IRC Staffing

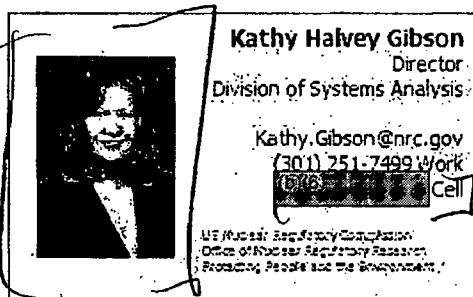
Are you here?

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:23 PM  
**To:** Santiago, Patricia  
**Subject:** RE: IRC Staffing

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---

**From:** Santiago, Patricia  
**Sent:** Tuesday, March 15, 2011 7:18 PM  
**To:** Gibson, Kathy  
**Subject:** RE: IRC Staffing

BC/42

No Jason or Charlie....correct?

Also we have asked about funding SNL to support the Japan questions that Jason and Charlie have been needing to respond to. Presently I don't believe it is too costly but should we be asking NSIR what funds they have to support vs using our SOARCA funds?

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Thanks

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:16 PM  
**To:** RES\_DSA  
**Subject:** FW: IRC Staffing  
**Importance:** High

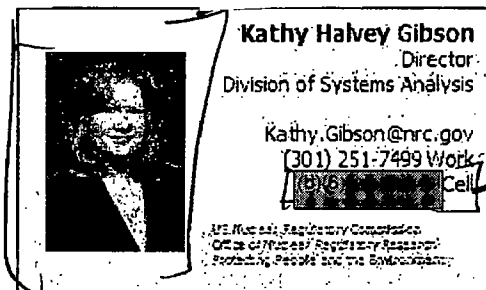
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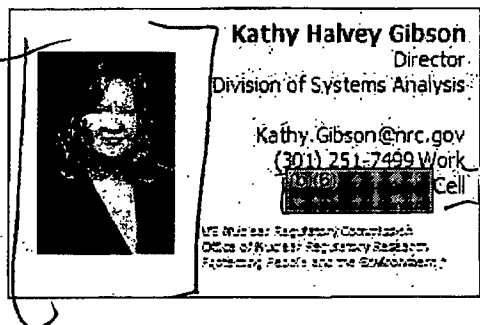
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## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:29 PM  
**To:** Santiago, Patricia  
**Subject:** RE: IRC Staffing  
**Attachments:** Kathy Halvey Gibson3.vcf

We don't have a contract with Sandia for Japan work, so I'd be careful making ad hoc requests.



---

**From:** Santiago, Patricia  
**Sent:** Tuesday, March 15, 2011 7:27 PM  
**To:** Gibson, Kathy  
**Subject:** RE: IRC Staffing

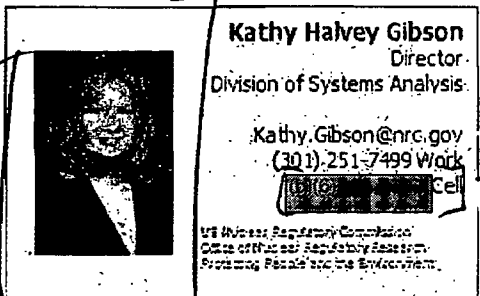
Agree...to clarify, I was just letting you know Jason asked for some graphs that SNL produced related to the current events and it costs money which we funded out of SOARCA funds. It is gets too costly I will advise or do as Ruth suggests asked for unused funds.  
thanks

---

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BC/43

---

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**To:** RES\_DSA  
**Subject:** FW: IRC Staffing  
**Importance:** High

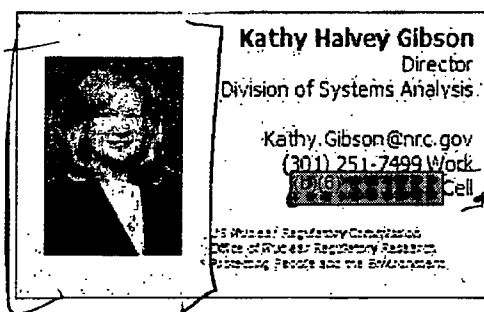
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**Greenwood, Carol**

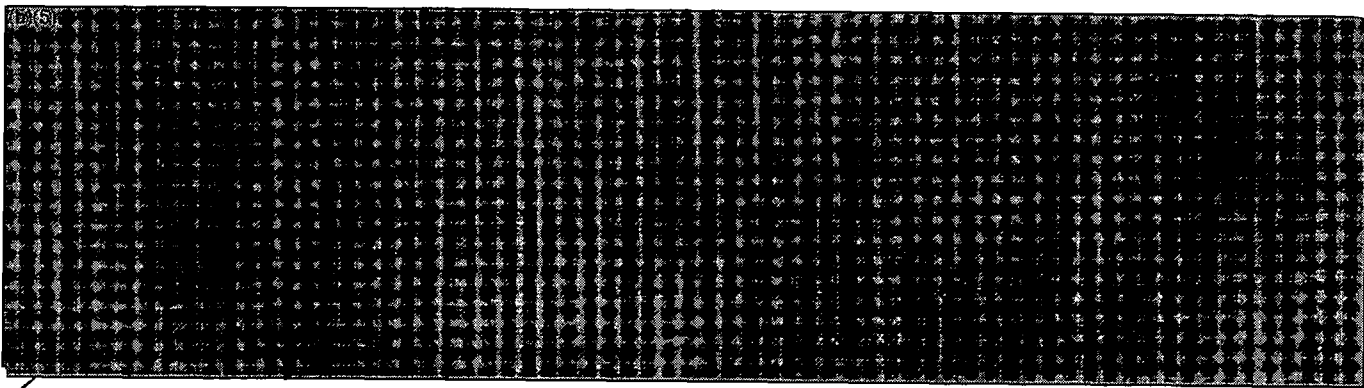
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**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 10:24 PM  
**To:** Scott, Michael  
**Subject:** Re: IRC Staffing

We disagree (b)(5) thanks for the rest.

---

**From:** Scott, Michael  
**To:** Gibson, Kathy  
**Cc:** Armstrong, Kenneth  
**Sent:** Tue Mar 15 20:23:45 2011  
**Subject:** RE: IRC Staffing



Mike

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 7:16 PM  
**To:** RES\_DSA  
**Subject:** FW: IRC Staffing  
**Importance:** High

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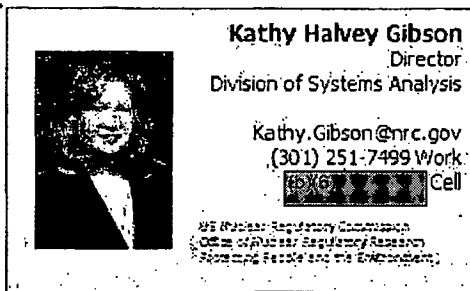
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BC 44



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## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 10:30 PM  
**To:** Lubinski, John  
**Subject:** Re: Staffing Ops Center 24/7

---

**From:** Lubinski, John  
**To:** Gibson, Kathy  
**Sent:** Tue Mar 15 21:56:33 2011  
**Subject:** Fw: Staffing Ops Center 24/7

Kathy,

Are you willing to serve as a pmt directoron?

Sent from my NRC blackberry  
John W. Lubinski  
(blackberry number)

---

**From:** OST02 HOC  
**To:** Jones, Cynthia; Lubinski, John; Reis, Terrence; Reis, Terrence; Holahan, Patricia; Tappert, John; Cool, Donald; Milligan, Patricia; Lui, Christiana; Sullivan, Randy; Holahan, Vincent  
**Cc:** Evans, Michele  
**Sent:** Tue Mar 15 18:24:47 2011  
**Subject:** Staffing Ops Center 24/7

### PMT Directors:

Per EDO direction we plan to staff the Ops Center 24/7 while we have staff dispatched in Japan. And we are currently planning to identify a second team to send to Japan in about 2 weeks, with the idea that they may stay there for an additional two weeks. That would take us out to April 10 or so.

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We'd like to have a little more consistency in the staffing of most positions. So we'd like to staff the PMT director in 4 day blocks, three shifts each day, starting March 19.

Fred Brown/Tim McGinty/John Lubinski has offered to take the lead to coordinate among the potential PMT Directors to fill the schedule. Please work with him and provide at least the schedule for the first four day block by COB Wednesday March 16.

Michele

BC/45

**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 11:05 PM  
**To:** Gibson, Raymond  
**Subject:** Fw: Staffing Ops Center 24/7

I need your travel schedule from now til end of April please :-)

---

**From:** Gibson, Kathy  
**To:** Lubinski, John  
**Sent:** Tue Mar 15 22:30:04 2011  
**Subject:** Re: Staffing Ops Center 24/7

---

**From:** Lubinski, John  
**To:** Gibson, Kathy  
**Sent:** Tue Mar 15 21:56:33 2011  
**Subject:** Fw: Staffing Ops Center 24/7

Kathy,

Are you willing to serve as a pmt directoron?

Sent from my NRC blackberry  
John W. Lubinski  
(blackberry number)

---

**From:** OST02 HOC  
**To:** Jones, Cynthia; Lubinski, John; Reis, Terrence; Reis, Terrence; Holahan, Patricia; Tappert, John; Cool, Donald; Milligan, Patricia; Lui, Christiana; Sullivan, Randy; Holahan, Vincent  
**Cc:** Evans, Michele  
**Sent:** Tue Mar 15 18:24:47 2011  
**Subject:** Staffing Ops Center 24/7

**PMT Directors:**

Per EDO direction we plan to staff the Ops Center 24/7 while we have staff dispatched in Japan. And we are currently planning to identify a second team to send to Japan in about 2 weeks, with the idea that they may stay there for an additional two weeks. That would take us out to April 10 or so.

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BC/46

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*Michele*

## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:00 AM  
**To:** Lubinski, John  
**Subject:** Fw: Staffing Ops Center 24/7

I can work day shift the weeks listed below and any shift the other weeks.

---

**From:** Gibson, Raymond  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 07:19:44 2011  
**Subject:** RE: Staffing Ops Center 24/7

March 21-25 - OUT  
March 28- April 1 - OUT  
April 11-15 - OUT

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 11:05 PM  
**To:** Gibson, Raymond  
**Subject:** Fw: Staffing Ops Center 24/7

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**Cc:** Evans, Michele

BC/47

**Sent:** Tue Mar 15 18:24:47 2011  
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*Michele*



## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:06 AM  
**To:** Gibson, Raymond  
**Subject:** Re: Staffing Ops Center 24/7

Thanks! ;-)

---

**From:** Gibson, Raymond  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 07:19:44 2011  
**Subject:** RE: Staffing Ops Center 24/7

March 21-25 - OUT  
March 28- April 1 - OUT  
April 11-15 - OUT

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**Sent:** Tue Mar 15 21:56:33 2011  
**Subject:** Fw: Staffing Ops Center 24/7

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**To:** Jones, Cynthia; Lubinski, John; Reis, Terrence; Reis, Terrence; Holahan, Patricia; Tappert, John; Cool, Donald; Milligan, Patricia; Lui, Christiana; Sullivan, Randy; Holahan, Vincent  
**Cc:** Evans, Michele

BC/48

**Sent:** Tue Mar 15 18:24:47 2011  
**Subject:** Staffing Ops Center 24/7

PMT Directors:

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*Michele*

## **Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:06 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing  
**Attachments:** Japan Exercise Position Title March 15.docx; Japan Support.xlsx  
**Importance:** High

More info on staffing the Ops Center.

Please provide the information I requested previously on your willingness to help. If you are not interested, unavailable or don't have relevant expertise to work in the Ops Center or go to Japan, please send a negative reply so we have a full accounting for the division.

Thanks!

---

**From:** Sheron, Brian  
**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Sent:** Wed Mar 16 07:41:18 2011  
**Subject:** FW: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Here is the list of expertise the Op center is looking for.

---

**From:** Evans, Michele  
**Sent:** Tuesday, March 15, 2011 5:53 PM  
**To:** Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitis, Spiros; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Greene, Kathryn; Stewart, Sharon; Howard, Patrick; Miller, Charles; Moore, Scott; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Dorman, Dan; Johnson, Michael; Holahan, Gary; Leeds, Eric; Boger, Bruce; Grobe, Jack; Zimmerman, Roy; Campbell, Andy; Sheron, Brian; Uhle, Jennifer; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Casto, Chuck; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Muessle, Mary; Andersen, James; Akstulewicz, Brenda; Belmore, Nancy; Quesenberry, Jeannette; Kreuter, Jane; Armstrong, Janine; Hudson, Sharon; Ellis, Marv; Hasan, Nasreen; Ronewicz, Lynn; Schumann, Stacy; Daniels, Stanley; Casby, Marcia; Thomas, Loretta; Walker, Dwight; Sprogeris, Patricia; Schwarz, Sherry; Ross, Robin; Cohen, Shari; Riddick, Nicole; Flory, Shirley; Veltri, Debra; Matakas, Gina; ODaniell, Cynthia; Miles, Patricia; Lee, Pamela; Dubose, Sheila; Buckley, Patricia; Tomczak, Tammy; Owen, Lucy; Tannenbaum, Anita; Gusack, Barbara; Harrington, Holly; Ricketts, Paul; Howell, Linda; Higginbotham, Tina; Ross, Brenda; Boyce, Thomas (OIS); Schaeffer, James; Jackson, Donald  
**Subject:** Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Everyone,

Please find attached 1) a list of current positions being staffed in the Ops Center and 2) the staff identified as available to support in Japan.

Regarding additional staff available to support in the ops center, the primary needs are for the specialized positions on the PMT and anyone with previous international experience in OIP.

Regarding support in Japan, please provide any updates/changes to the list by COB March 17. The target time frame for sending these staff members is March 27-April 9, so please consider that when considering staff to put on the list.

Thanks for your support.

BC/49

Michele

## Positions being staffed in the Operations Center as of March 15, 2011

### Liaison Team

LT Director  
LT Coordinator  
LT Federal Liaison (2)  
LT Congressional Liaison (2)  
LT International Liaison (2)

### Protective Measures Team

PMTR Director  
PMTR Coordinator  
PMTR Protective Actions Assistant Director  
PMTR RAAD (Radiological Assessment Assistant Director)  
PMTR Dose Assessment (RASCAL)  
RASCAL Developer  
PMTR GIS Analyst (Geographical Information Systems)  
PMTR Meteorologist

### Reactor Safety Team

RST Director  
RST Coordinator  
Severe Accident / PRA  
BWR Expert  
RST Comm / ERDS Operator  
RST Support (Seismology Q&A)

SAMG	SRO/RI @BWR	Desc		
Rudy Bernhard		SRO/RI @BWR	Senior Reactor Analyst, Senior Resident Inspector at Grand Gulf; GE SRO Certification at Dresden, Hatch and River Bend; General Electric Construction/Pre-op/Start-up Testing/ and Operations, Browns Ferry Restart support.	PASSPORT NEEDS UPDATING
Bruno Caballero		SRO/RI @BWR	Senior Operator Licensing Examiner, former SRO at Browns Ferry (BWR4/Mark	CURRENT PASSPORT
Len Wert		SRO/RI @BWR	SRI Browns Ferry and Hatch (BWR4/Mark 1)	PASSPORT NEEDS UPDATING
Chuck Casto		SRO/RI @BWR	former licensed SRO at Browns Ferry (BWR4/Mark	CURRENT PASSPORT
Joel Munday		SRO/RI @BWR	former licensed SRO at Brunswick ((BWR4/Mark 1) SRI at Hatch (BWR4/Mark 1)	PASSPORT NEEDS UPDATING
Tony Nakanishi		SRO/RI @BWR	BWR analysis guy, spent fuel pool criticality,	speaks Japanese
Tony Mendiola		SRO/RI @BWR	BWR qualified examiner (dated) , SRO certified by GE, Navy Nuke	
Lawrence Kokajko	SAMG	SRO/RI @BWR	licensed operator on this type of plant (SOP 3938). He also taught degraded core cooling post TMI.	CURRENT PASSPORT, Current Japan Visa
Aby Mohseni	SAMG		severe accident experience for this type of unit	CURRENT PASSPORT
George Wilson – Chief, I&C Branch		SRO/RI @BWR	BS Nuclear/Electrical Engineering Navy ET/Reactor Operator TVA I&C Supervisor STA at Watts Bar NRC License Examiner RI/SRI at BWR 4/5 Mark 2s Electrical Branch Chief 2005-2011 Evaluated Forsmark event in Sweden	
Martin Murphy			Navy Nuke program – GE / Knolls Atomic Power Laboratory employee – 6 years operating prototype Calvert Cliffs nuclear power plant – 12 years system engineering (ECCS & containment spray), senior material engineer US NRC materials engineer licensing experience project engineering – special projects	

Roy Mathews - Electrical Engineer			thirty years nuclear power plant experience in the areas of design, maintenance and operation. Expert in power plant electrical engineering design and operation. Participated in the NRC, IIT, AITs and Team Inspections and a qualified NRC inspector. Participated in international electrical design standards.	
Jeff Circle		SRO/RI @BWR	Probabilistic risk assessments, including system modeling, ROP, SDP, and SERPs. Licensing interface. Maintenance rule. Reactive inspection decision-making. Outage management. Mr. Circle is a member of the HQ Incident Response Reactor Safety Team. Prior to joining the NRC, Mr. Circle worked for Entergy for 6 years (2000-2006) and with the New York Power Authority for 7 years (1993-2000). He has significant experience with BWRs and PWRs.	
Harold Barrett		SRO/RI @BWR	significant BWR experience. He worked at Nine Mile Point on and off for about 15 years. He held a Senior Reactor Operator's license at Nine Mile Point Unit 1, including several positions in Operations Management (Assistant Operations Superintendent and General Supervisor Operations), was qualified in Emergency Plan Implementation and was involved with symptom-based procedure development and participated on the BWR Owner's Group Emergency Procedures Committee (responsible for the BWR Emergency Procedure Guidelines for all BWR product lines) in the mid-1980s.	
Tim Kolb		SRO/RI @BWR	BWR specialist	
Kristy Bucholtz		SRO/RI @BWR	Recently licensed SRO at Peach Bottom.	
Chuck Norton		SRO/RI @BWR	BWR expertise (shift manager for many years at a BWR 4, resident inspector at a BWR 6 (Grand Gulf)).	
Joe Giitter			source term, incident response	
Bill Cook	SAMG		severe accident mitigation. knowledgeable of SAMAs and B.5.b strategies. considerable BWR backgrounds. Region I Senior reactor analysts.	
Wayne Schmidt	SAMG		severe accident mitigation. knowledgeable of SAMAs and B.5.b strategies. considerable BWR backgrounds. Region I Senior reactor analysts.	

Chris Cahill	SAMG		severe accident mitigation. knowledgeable of SAMAs and B.5.b strategies. considerable BWR backgrounds. Region I Senior reactor analysts.		
Ron Nimitz			radiological health effects and plume modeling		
Jim Nogge			radiological health effects and plume modeling		worked at Fukushima in the 1980's
Ray McKinley		SRO/RI @BWR	incident response, former BWR 4 SRO		
Edward Fuller	SAMG		Ph.D. Nuclear Engineering. Expert. Severe Accident Analysis		current passport
Donald Dube	SAMG		Ph.D. Nuclear Engineering Expert. Severe Accident Analysis and Operational Experience		
Charles Hinson			M.E. Nuclear Engineering/ Health Physics Expert. ALARA & Radiological Safety Programs		
Reynaldo Jenkins			M.E. Nuclear Engineering/ Health Physics Expert. ALARA & Radiological Safety Programs		
Mark Ring	SAMG	SRO/RI @BWR	Div of Reactor Projects Br Chief for many years. Responsible for Dresden and Quad. I consider him one of the agency's best on BWR 3 and 4's qual in our emerg response org in rst, pmt, and response coordination		
Jim Mcghee		SRO/RI @BWR	SRI Quad, former SRO BWR and BWR examiner. Former licensee Ops and Maint mana at entery BWRs.		
Jack Foster	SAMG		HOO Protective Measure Team (PMT). Qualified as Reactor Safety Team/PMT Liaison and PMT Coordinator. RST/PMT skills need include Reactor background and health physics. PMT Coordinator skill include use and training on RASCAL, GIS, overall process of PMT. Branch Chief Materials Licensing Branch in FSME. Responsibilities include: Exempt Distribution Licensing, General Licensing, Web Based Licensing/Licensing Tracking System Branch Chief - Generic Issues and OPE (RES). Included skills are GI-199 (Seismic) and Accident sequence precursor program (ASP)		
Jason Schaperow	SAMG		Severe Accident (SA) Management Strategies (SAMGs). SA phenomena, source term chemical interaction, member of RST		current passport



Richard Lee	SAMG		SAMGs, SA phenomena	current passport
Mark Leonard (Sandia)	SAMG	SRO/RI @BWR	BWR SAMGs, SA phenomena	current passport
Randy Gauntt (Sandia)	SAMG	SRO/RI @BWR	SAMGs, SA phenomena, source term chemical interaction	current passport
Annie Kammerer			Seismic, tsunami, works with Japanese through IAEA program	current passport
Steve Garchow			Licensed as a BWR 6 (Perry) SRO. Went through construction and startup. While at Perry, I developed many of the initial safety related normal operating and abnormal operating procedures. This was a "from scratch" effort and, thus, involved a large amount of research with regard to system designs, capabilities, and interfaces with other systems. Perry was the lead plant for the development of the initial BWR EOPs following TMI. I was one of the licensed SRO's responsible for the initial validation and subsequent revisions of the draft EOP's. This effort was part of the BWR industry's EOP implementation plan following TMI. While an INPO employee, was a simulator evaluation team leader. This involved evaluating BWR operating crews across the country in "emergency" EOP simulated scenarios. As an NRC Chief Examiner, led many exams on BWR 4's, 5's, and 6's. This has included exams on MARK I, MARK II and MARK III containment designs. While at INPO was an accident/incident investigator and in this capacity investigated many nuclear industry events. Was a company spokesperson at First Energy and, as such, was responsible for the JPIC during emergency situations.	
Michael Hay			Bachelors/Masters in Health Physics NRC GE/BWR series course Resident Inspector at Cooper Nuclear Station: BWR 4/Mark 1 (approx 4 years) Extensive emergency planning and event response experiences	
Tony Vogel			RI/SRI at BWR's (Fermi, Perry) Knowledgeable of BWR Mark 1 Containment Lead RIV.NRC response to Hurricane Katrina Extensive emergency planning and event response experiences, including Base Team Manager	
Art Howell			26 years NRC experience	

[illegible]

**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:33 AM  
**To:** Sherbini, Sami  
**Subject:** Re: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

(b)(5)

---

**From:** Sherbini, Sami  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:23:45 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

(b)(5)

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:20 AM  
**To:** Sherbini, Sami  
**Subject:** Re: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

(b)(5)

---

**From:** Sherbini, Sami  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:11:37 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Kathy,

Per your request, [REDACTED] Thanks.

Sami

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:06 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing  
**Importance:** High

More info on staffing the Ops Center.

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Thanks!

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**From:** Sheron, Brian  
**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea

BC/50

**Sent:** Wed Mar 16 07:41:18 2011

**Subject:** FW: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Here is the list of expertise the Op center is looking for.

---

**From:** Evans, Michele

**Sent:** Tuesday, March 15, 2011 5:53 PM

**To:** Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitis, Spiros; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Greene, Kathryn; Stewart, Sharon; Howard, Patrick; Miller, Charles; Moore, Scott; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Dorman, Dan; Johnson, Michael; Holahan, Gary; Leeds, Eric; Boger, Bruce; Grobe, Jack; Zimmerman, Roy; Campbell, Andy; Sheron, Brian; Uhle, Jennifer; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Casto, Chuck; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Muesle, Mary; Andersen, James; Akstulewicz, Brenda; Belmore, Nancy; Quesenberry, Jeannette; Kreuter, Jane; Armstrong, Janine; Hudson, Sharon; Ellis, Marv; Hasan, Nasreen; Ronewicz, Lynn; Schumann, Stacy; Daniels, Stanley; Casby, Marcia; Thomas, Loretta; Walker, Dwight; Sprogeris, Patricia; Schwarz, Sherry; Ross, Robin; Cohen, Shari; Riddick, Nicole; Flory, Shirley; Veltri, Debra; Matakas, Gina; ODaniell, Cynthia; Miles, Patricia; Lee, Pamela; Dubose, Sheila; Buckley, Patricia; Tomczak, Tammy; Owen, Lucy; Tannenbaum, Anita; Gusack, Barbara; Harrington, Holly; Ricketts, Paul; Howell, Linda; Higginbotham, Tina; Ross, Brenda; Boyce, Thomas (OIS); Schaeffer, James; Jackson, Donald

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Thanks for your support.

*Michele*

## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:35 AM  
**To:** Schaffer, Steven  
**Subject:** Re: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Steve,

(b)(5)

(b)(5)

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**From:** Schaffer, Steven  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:27:46 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Kathy

(b)(5)

Steve

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:06 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing  
**Importance:** High

More info on staffing the Ops Center.

Please provide the information I requested previously on your willingness to help. If you are not interested, unavailable or don't have relevant expertise to work in the Ops Center or go to Japan, please send a negative reply so we have a full accounting for the division.

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**From:** Sheron, Brian  
**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
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**Subject:** FW: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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Thanks for your support.

*Michele*

**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:37 AM  
**To:** Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany

What is f o l?

---

**From:** Scott, Michael  
**To:** Santiago, Patricia; Tinkler, Charles  
**Cc:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:34:10 2011  
**Subject:** Re: MELCOR input deck for Germany

More f-o-l.

Sent from my NRC blackberry

Michael Scott  


---

**From:** Santiago, Patricia  
**To:** Tinkler, Charles  
**Cc:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:33:11 2011  
**Subject:** FW: MELCOR input deck for Germany

Morning Charlie,

Can you email Diane back with your contact information and cc management.

Thanks again Charlie!

---

**From:** Uhle, Jennifer  
**Sent:** Wednesday, March 16, 2011 8:22 AM  
**To:** Santiago, Patricia; Gibson, Kathy; Scott, Michael  
**Subject:** Fw: MELCOR input deck for Germany

We should be able to do this from our aircraft impact SFP work. Charlie knows. J

---

**From:** [Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org) <[Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org)>  
**To:** Uhle, Jennifer  
**Sent:** Wed Mar 16 08:18:04 2011  
**Subject:** MELCOR input deck for Germany

Hello Jennifer –

How are you? I am sure overly busy with Japan, as many of us are. We have requests for information from all over in many forms.

BCJ 52

- As I am sure you know, the German government has ordered the shutdown of 7 of their plants that were built before 1980. GRS would like to run MELCOR on Mark 1 containments to fight back with some analysis.

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**Diane Jackson**, Nuclear Safety Specialist  
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Tel.: +33 (0)1 45 24 10 55, [Diane.Jackson@oecd.org](mailto:Diane.Jackson@oecd.org)

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## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:38 AM  
**To:** Santiago, Patricia; Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany

Please get with Richard and get someone from his staff to do this - he owns MELCOR.

---

**From:** Santiago, Patricia  
**To:** Scott, Michael; Gibson, Kathy  
**Sent:** Wed Mar 16 08:36:29 2011  
**Subject:** RE: MELCOR input deck for Germany

Hope this is fact of life.....haha....I can hear Charlie....although he may have been called by the op center...haven't heard from him this am.  
thanks

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**From:** Scott, Michael  
**Sent:** Wednesday, March 16, 2011 8:34 AM  
**To:** Santiago, Patricia; Tinkler, Charles  
**Cc:** Gibson, Kathy  
**Subject:** Re: MELCOR input deck for Germany

More f-o-l.

Sent from my NRC blackberry  
Michael Scott

---

**From:** Santiago, Patricia  
**To:** Tinkler, Charles  
**Cc:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:33:11 2011  
**Subject:** FW: MELCOR input deck for Germany

Morning Charlie,

Can you email Diane back with your contact information and cc management.

Thanks again Charlie!

---

**From:** Uhle, Jennifer  
**Sent:** Wednesday, March 16, 2011 8:22 AM  
**To:** Santiago, Patricia; Gibson, Kathy; Scott, Michael  
**Subject:** Fw: MELCOR input deck for Germany

We should be able to do this from our aircraft impact SFP work. Charlie knows. J

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**From:** [Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org) <[Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org)>  
**To:** Uhle, Jennifer

BC/53

**Sent:** Wed Mar 16 08:18:04 2011  
**Subject:** MELCOR input deck for Germany

Hello Jennifer –

How are you? I am sure overly busy with Japan, as many of us are. We have requests for information from all over in many forms.

As I am sure you know, the German government has ordered the shutdown of 7 of their plants that were built before 1980. GRS would like to run MELCOR on Mark 1 containments to fight back with some analysis.

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**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:40 AM  
**To:** Santiago, Patricia; Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany

(b)(5)

(b)(5)

---

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**To:** Santiago, Patricia; Scott, Michael  
**Sent:** Wed Mar 16 08:38:29 2011  
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**Sent:** Wednesday, March 16, 2011 8:34 AM  
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**Cc:** Gibson, Kathy  
**Subject:** Re: MELCOR input deck for Germany

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Sent from my NRC blackberry  
Michael Scott

(b)(5)

---

**From:** Santiago, Patricia  
**To:** Tinkler, Charles  
**Cc:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:33:11 2011  
**Subject:** FW: MELCOR input deck for Germany

Morning Charlie,

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Thanks again Charlie!

BCF 54

## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:41 AM  
**To:** Uhle, Jennifer; Santiago, Patricia; Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany

We are on it.

---

**From:** Uhle, Jennifer  
**To:** Santiago, Patricia; Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:21:55 2011  
**Subject:** Fw: MELCOR input deck for Germany

We should be able to do this from our aircraft impact SFP work. Charlie knows. J

---

**From:** Diane.JACKSON@oecd.org <Diane.JACKSON@oecd.org>  
**To:** Uhle, Jennifer  
**Sent:** Wed Mar 16 08:18:04 2011  
**Subject:** MELCOR input deck for Germany


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If so, I can send along a NRC name and number or I can get my German colleague here to give me the GRS contact, so that NRC can contact GRS directly.

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BC/55

## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:44 AM  
**To:** Santiago, Patricia  
**Subject:** Re: MELCOR input deck for Germany

They want a MELCOR input deck for Mark I containment. Richard can provide it. (b)(5)

---

**From:** Santiago, Patricia  
**To:** Gibson, Kathy; Tinkler, Charles; Lee, Richard  
**Cc:** Scott, Michael  
**Sent:** Wed Mar 16 08:39:54 2011  
**Subject:** RE: MELCOR input deck for Germany

(b)(5)

thanks

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:37 AM  
**To:** Santiago, Patricia; Tinkler, Charles; Lee, Richard  
**Cc:** Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany  
**Importance:** High.

Hold on, is there someone who can do this besides Charlie? Someone in Richard's branch?

---

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**To:** Tinkler, Charles  
**Cc:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:33:11 2011  
**Subject:** FW: MELCOR input deck for Germany

Morning Charlie,

Can you email Diane back with your contact information and cc management.

Thanks again Charlie!

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**Sent:** Wednesday, March 16, 2011 8:22 AM  
**To:** Santiago, Patricia; Gibson, Kathy; Scott, Michael  
**Subject:** Fw: MELCOR input deck for Germany

We should be able to do this from our aircraft impact SFP work. Charlie knows. J

BC/56

**From:** [Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org) <[Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org)>  
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**Subject:** MELCOR input deck for Germany

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## **Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:46 AM  
**To:** Scott, Michael; Santiago, Patricia  
**Subject:** Re: MELCOR input deck for Germany

Agree, I already mentioned to Brian. Pat hasn't sent extension request up yet so we can work this once we get a sense of how long we will be in react mode.

---

**From:** Scott, Michael  
**To:** Gibson, Kathy; Santiago, Patricia  
**Sent:** Wed Mar 16 08:42:31 2011  
**Subject:** Re: MELCOR input deck for Germany

Sorry - fact of life. Per my previous stated view that soarca deadline dec 11 has been overcome by events and needs to be pushed out into early 12. We are constantly band aiding because of demands on these folks. Suggest we accept that situation has changed given demands of Japan issue.

Sent from my NRC blackberry  
Michael Scott

---

**From:** Gibson, Kathy  
**To:** Scott, Michael  
**Sent:** Wed Mar 16 08:37:28 2011  
**Subject:** Re: MELCOR input deck for Germany

What is f o l?

---

**From:** Scott, Michael  
**To:** Santiago, Patricia; Tinkler, Charles  
**Cc:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:34:10 2011  
**Subject:** Re: MELCOR input deck for Germany

More f-o-l.

Sent from my NRC blackberry  
Michael Scott

---

**From:** Santiago, Patricia  
**To:** Tinkler, Charles  
**Cc:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:33:11 2011  
**Subject:** FW: MELCOR input deck for Germany

Morning Charlie,

BC 57

Can you email Diane back with your contact information and cc management.

Thanks again Charlie!

---

**From:** Uhle, Jennifer  
**Sent:** Wednesday, March 16, 2011 8:22 AM  
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**Subject:** Fw: MELCOR input deck for Germany

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**From:** [Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org) <[Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org)>  
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**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:47 AM  
**To:** Santiago, Patricia  
**Subject:** Re: MELCOR input deck for Germany

He has people already developed like Hossein Esmaili and mike salay.

---

**From:** Santiago, Patricia  
**To:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:42:33 2011  
**Subject:** RE: MELCOR input deck for Germany

Agree and am working to have knowledge transfer plans so they are not the constant 2 that can respond. I am hopeful in the next year that Richard can be on his way to an expert, I am looking at Tina and eventually Sergio. I also want to talk to Richard to see who else can be developed.

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:40 AM  
**To:** Santiago, Patricia; Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany

(b)(5)

(b)(5)

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**Subject:** Re: MELCOR input deck for Germany

More f-o-l.

Sent from my NRC blackberry

Be/58

Michael Scott

(b)(6)

---

**From:** Santiago, Patricia  
**To:** Tinkler, Charles  
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## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:54 AM  
**To:** Santiago, Patricia  
**Subject:** Re: MELCOR input deck for Germany

Both

---

**From:** Santiago, Patricia  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:48:41 2011  
**Subject:** RE: MELCOR input deck for Germany

As severe accident analysts ? or MELCOR experts? thanks

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:47 AM  
**To:** Santiago, Patricia  
**Subject:** Re: MELCOR input deck for Germany

He has people already developed like Hossein Esmaili and mike salay.

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**From:** Santiago, Patricia  
**To:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:42:33 2011  
**Subject:** RE: MELCOR input deck for Germany

(b)(5)



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**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:40 AM  
**To:** Santiago, Patricia; Scott, Michael  
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(b)(5)



(b)(5)



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**To:** Santiago, Patricia; Scott, Michael  
**Sent:** Wed Mar 16 08:38:29 2011  
**Subject:** Re: MELCOR input deck for Germany

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**From:** Santiago, Patricia  
**To:** Scott, Michael; Gibson, Kathy  
**Sent:** Wed Mar 16 08:36:29 2011  
**Subject:** RE: MELCOR input deck for Germany

BC159

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**From:** Scott, Michael  
**Sent:** Wednesday, March 16, 2011 8:34 AM  
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**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 9:22 AM  
**To:** Lee, Richard  
**Subject:** Re: MELCOR input deck for Germany

Thanks Richard

---

**From:** Lee, Richard  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 09:11:30 2011  
**Subject:** FW: MELCOR input deck for Germany

Kathy:

For your information. Yesterday, we were contacted by Larry from SNL informing our CSARP contact at GRS asking for the deck. We responded quickly. Jason (and Charlie) has contact at Peach Bottom and if he gets the O.K., we definitely have no objection to provide the input deck to GRS.

Richard

---

**From:** Lee, Richard  
**Sent:** Wednesday, March 16, 2011 9:05 AM  
**To:** Santiago, Patricia  
**Subject:** Re: MELCOR input deck for Germany

We were requested to provide MELCOR input deck of Peach Bottom to GRS. Since it has proprietary data, we said we can't. If Jason can get the utility OK, then we have no problem giving the deck to GRS.

Sent from nrc blackberry

  
Richard Lee

---

**From:** Santiago, Patricia  
**To:** Gibson, Kathy; Tinkler, Charles; Lee, Richard  
**Cc:** Scott, Michael  
**Sent:** Wed Mar 16 08:39:54 2011  
**Subject:** RE: MELCOR input deck for Germany

(b)(5)



thanks

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:37 AM  
**To:** Santiago, Patricia; Tinkler, Charles; Lee, Richard  
**Cc:** Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany  
**Importance:** High

BC/60

Hold on, is there someone who can do this besides Charlie? Someone in Richard's branch?

---

**From:** Santiago, Patricia  
**To:** Tinkler, Charles  
**Cc:** Gibson, Kathy; Scott, Michael  
**Sent:** Wed Mar 16 08:33:11 2011  
**Subject:** FW: MELCOR input deck for Germany

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Can you email Diane back with your contact information and cc management.

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**Sent:** Wednesday, March 16, 2011 8:22 AM  
**To:** Santiago, Patricia; Gibson, Kathy; Scott, Michael  
**Subject:** Fw: MELCOR input deck for Germany

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**From:** [Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org) <[Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org)>  
**To:** Uhle, Jennifer  
**Sent:** Wed Mar 16 08:18:04 2011  
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**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 9:52 AM  
**To:** Lee, Richard; Santiago, Patricia  
**Cc:** Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany

.We should not be doing any analysis. If we can send the input decks fine, if we can't we can't.

---

**From:** Lee, Richard  
**To:** Santiago, Patricia  
**Cc:** Gibson, Kathy; [micheal.scott@nrc.gov](mailto:micheal.scott@nrc.gov) <[micheal.scott@nrc.gov](mailto:micheal.scott@nrc.gov)>  
**Sent:** Wed Mar 16 09:26:35 2011  
**Subject:** RE: MELCOR input deck for Germany

We are using the SOARCA deck, only for thermal-hydraulics analysis for PRA Level 1 success criteria.

It is not easy to modify Peach Bottom deck for a German plant, and perform analysis from here. Running a single MELCOR may not do the job. It is going to be a long drag out analysis for the Germans.

There may be a Peach Bottom deck at SNL that was used for revised NUREG-1465 for HBU/MOX fuel which does not have safeguards info. Please consult with Charlie and Jason to get the utility for NRC to provide this deck to GRS.

Richard

---

**From:** Santiago, Patricia  
**Sent:** Wednesday, March 16, 2011 9:11 AM  
**To:** Lee, Richard  
**Cc:** Gibson, Kathy; Scott, Michael  
**Subject:** FW: MELCOR input deck for Germany

The SOARCA is proprietary and the impact is safeguards....are you referring to the SOARCA?

And can you do a MELCOR run for GRS on their BWR specifics if we were to get them and how long would that take. If too long, then we can call Peach Bottom to ask they send us a letter to allow.

Someone asked if this request be going via DOS?

Thanks

---

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**To:** Santiago, Patricia  
**Subject:** Re: MELCOR input deck for Germany

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Sent from nrc blackberry

BC/61



(b)(6)

Richard Lee

---

**From:** Santiago, Patricia  
**To:** Gibson, Kathy; Tinkler, Charles; Lee, Richard  
**Cc:** Scott, Michael  
**Sent:** Wed Mar 16 08:39:54 2011  
**Subject:** RE: MELCOR input deck for Germany

Initially I proposed Randy Sullivan however Randy is best suited for results as they apply to EP not a BWR operation and questions that likely will come. I left a message for Richard to also ask. If we have the set in the impact study and it is relatively straightforward, I didn't expect it to take too much of his time. I will talk to Charlie and Richard and make a final recommendation.  
thanks

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:37 AM  
**To:** Santiago, Patricia; Tinkler, Charles; Lee, Richard  
**Cc:** Scott, Michael  
**Subject:** Re: MELCOR input deck for Germany  
**Importance:** High

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**To:** Santiago, Patricia; Gibson, Kathy; Scott, Michael  
**Subject:** Fw: MELCOR input deck for Germany

We should be able to do this from our aircraft impact SFP work. Charlie knows. J

---

**From:** [Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org) <[Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org)>  
**To:** Uhle, Jennifer  
**Sent:** Wed Mar 16 08:18:04 2011  
**Subject:** MELCOR input deck for Germany

Hello Jennifer –

How are you? I am sure overly busy with Japan, as many of us are. We have requests for information from all over in many forms.

As I am sure you know, the German government has ordered the shutdown of 7 of their plants that were built before 1980. GRS would like to run MELCOR on Mark 1 containments to fight back with some analysis.

Would NRC/RES be able to share an input deck for Mark 1 containment with GRS? Maybe someone from SOARCA branch could talk with someone in GRS?

If so, I can send along a NRC name and number or I can get my German colleague here to give me the GRS contact, so that NRC can contact GRS directly.



**Diane Jackson**, Nuclear Safety Specialist

Nuclear Safety Division, OECD Nuclear Energy Agency (NEA)

Tel.: +33 (0)1 45 24 10 55, [Diane.Jackson@oecd.org](mailto:Diane.Jackson@oecd.org)

**Update your bookmarks!** On 1 December 2010, the NEA is moving to: [www.oecd-nea.org](http://www.oecd-nea.org)

**Greenwood, Carol**

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**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 10:18 AM  
**To:** Armstrong, Kenneth  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

---

**From:** Schaffer, Steven  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:54:36 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Kathy,

(b)(4),(b)(6)

Steve

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:35 AM  
**To:** Schaffer, Steven  
**Subject:** Re: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Steve,

(b)(5)

(b)(5)

---

**From:** Schaffer, Steven  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:27:46 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Kathy,

(b)(5)

Steve

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:06 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing  
**Importance:** High

More info on staffing the Ops Center.

Please provide the information I requested previously on your willingness to help. If you are not interested, unavailable or don't have relevant expertise to work in the Ops Center or go to Japan, please send a negative reply so we have a full accounting for the division.

Thanks!

BL/42

**From:** Sheron, Brian

**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea

**Sent:** Wed Mar 16 07:41:18 2011

**Subject:** FW: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Here is the list of expertise the Op center is looking for.

---

**From:** Evans, Michele

**Sent:** Tuesday, March 15, 2011 5:53 PM

**To:** Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitis, Spiros; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Greene, Kathryn; Stewart, Sharon; Howard, Patrick; Miller, Charles; Moore, Scott; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Dorman, Dan; Johnson, Michael; Holahan, Gary; Leeds, Eric; Boger, Bruce; Grobe, Jack; Zimmerman, Roy; Campbell, Andy; Sheron, Brian; Uhle, Jennifer; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Casto, Chuck; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Muesse, Mary; Andersen, James; Akstulewicz, Brenda; Belmore, Nancy; Quesenberry, Jeannette; Kreuter, Jane; Armstrong, Janine; Hudson, Sharon; Ellis, Marv; Hasan, Nasreen; Ronewicz, Lynn; Schumann, Stacy; Daniels, Stanley; Casby, Marcia; Thomas, Loretta; Walker, Dwight; Sprogeris, Patricia; Schwarz, Sherry; Ross, Robin; Cohen, Shari; Riddick, Nicole; Flory, Shirley; Veltri, Debra; Matakas, Gina; ODaniell, Cynthia; Miles, Patricia; Lee, Pamela; Dubose, Sheila; Buckley, Patricia; Tomczak, Tammy; Owen, Lucy; Tannenbaum, Anita; Gusack, Barbara; Harrington, Holly; Ricketts, Paul; Howell, Linda; Higginbotham, Tina; Ross, Brenda; Boyce, Thomas (OIS); Schaeffer, James; Jackson, Donald

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Thanks for your support.

*Michele*

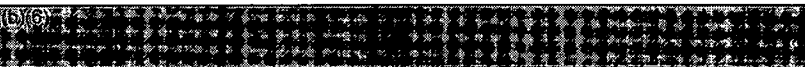
## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 10:18 AM  
**To:** Armstrong, Kenneth  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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

**From:** Bernard, Matthew  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:48:15 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing



---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:05 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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**From:** Sheron, Brian  
**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Sent:** Wed Mar 16 07:41:18 2011  
**Subject:** FW: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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BC/63

Subject: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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Thanks for your support.

Michele

## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 10:19 AM  
**To:** Armstrong, Kenneth  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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**From:** Esmaili, Hossein  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 08:41:08 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Kathy,



hossein

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:05 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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**From:** Sheron, Brian  
**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Sent:** Wed Mar 16 07:41:18 2011  
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Bel 64

Higginbotham, Tina; Ross, Brenda; Boyce, Thomas (OIS); Schaeffer, James; Jackson, Donald

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Thanks for your support.

*Michele*



## Greenwood, Carol

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 10:32 AM  
**To:** Armstrong, Kenneth  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

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**From:** Corson, James  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 10:30:50 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing



---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:05 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

More info on staffing the Ops Center.

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**From:** Sheron, Brian  
**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Sent:** Wed Mar 16 07:41:18 2011  
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BC | 65

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Thanks for your support.

*Michele*

**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 10:39 AM  
**To:** Armstrong, Kenneth  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

---

**From:** Tene, Kimberly  
**To:** Gibson, Kathy  
**Cc:** Zaki, Tarek  
**Sent:** Wed Mar 16 10:38:40 2011  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Hi Kathy

(b)(5).(b)(6)

*Kimberly Tene*  
[Kimberly.tene@nrc.gov](mailto:Kimberly.tene@nrc.gov)  
US NRC  
RES/DSA/NARB  
(301)-251-7533

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:06 AM  
**To:** RES\_DSA  
**Subject:** Fw: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing  
**Importance:** High

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BC | 66

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Thanks for your support.

*Michele*

**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 11:11 AM  
**To:** Gibson, Raymond  
**Subject:** Fw: Staffing Ops Center 24/7

Any objections?

---

**From:** Lubinski, John  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 11:05:32 2011  
**Subject:** RE: Staffing Ops Center 24/7

Kathy,

Can you work 11p-7a for Saturday and Sunday night? If not, at least Sunday Night?

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 8:00 AM  
**To:** Lubinski, John  
**Subject:** Fw: Staffing Ops Center 24/7

I can work day shift the weeks listed below and any shift the other weeks.

---

**From:** Gibson, Raymond  
**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 07:19:44 2011  
**Subject:** RE: Staffing Ops Center 24/7

March 21-25 - OUT  
March 28- April 1 - OUT  
April 11-15 - OUT

---

**From:** Gibson, Kathy  
**Sent:** Tuesday, March 15, 2011 11:05 PM  
**To:** Gibson, Raymond  
**Subject:** Fw: Staffing Ops Center 24/7

I need your travel schedule from now til end of April please :-)

---

**From:** Gibson, Kathy  
**To:** Lubinski, John  
**Sent:** Tue Mar 15 22:30:04 2011  
**Subject:** Re: Staffing Ops Center 24/7

(b)(5);(b)(6)

BC/b7

**From:** Lubinski, John  
**To:** Gibson, Kathy  
**Sent:** Tue Mar 15 21:56:33 2011  
**Subject:** Fw: Staffing Ops Center 24/7

Kathy,

Are you willing to serve as a pmt directoron?

Sent from my NRC blackberry  
John W. Lubinski  
(blackberry number)

---

**From:** OST02 HOC  
**To:** Jones, Cynthia; Lubinski, John; Reis, Terrence; Reis, Terrence; Holahan, Patricia; Tappert, John; Cool, Donald; Milligan, Patricia; Lui, Christiana; Sullivan, Randy; Holahan, Vincent  
**Cc:** Evans, Michele  
**Sent:** Tue Mar 15 18:24:47 2011  
**Subject:** Staffing Ops Center 24/7

PMT Directors:

Per EDO direction we plan to staff the Ops Center 24/7 while we have staff dispatched in Japan. And we are currently planning to identify a second team to send to Japan in about 2 weeks, with the idea that they may stay there for an additional two weeks. That would take us out to April 10 or so.

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Fred Brown/Tim McGinty/John Lubinski has offered to take the lead to coordinate among the potential PMT Directors to fill the schedule. Please work with him and provide at least the schedule for the first four day block by COB Wednesday March 16.

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## Greenwood, Carol

---


**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 11:23 AM  
**To:** 'Dorothy.Andreas@pepperdine.edu'; Santiago, Patricia  
**Subject:** Re: Information in SOARCA brochure that may be useful

Pat Santiago will call you about this, great idea!

---

**From:** Andreas, Dorothy C <[Dorothy.Andreas@pepperdine.edu](mailto:Dorothy.Andreas@pepperdine.edu)>  
**To:** Gibson, Kathy  
**Sent:** Tue Mar 15 13:22:20 2011  
**Subject:** Information in SOARCA brochure that may be useful

Kathy,



I know it's not really my place to say anything about this anymore, but I just thought I'd send a message in case it's helpful.

As you know, we spent a lot of effort in trying to explain severe accidents at nuclear power plants for the SOARCA brochure. Obviously, not all of that is not relevant for helping the public understand what's going on in Japan. And it's not the NRC's job to help the public understand the Japanese reactor. But there are a lot of questions about what could happen in the US, and someone could mine the draft brochure for explanations and images that could be put into a fact sheet that doesn't necessarily discuss SOARCA, but just explain what we know about potential severe accidents at our reactors and protective measures that are in place.

And for all I know, you are already doing this, but I thought I'd mention it just in case.

Dorothy

Dorothy Andreas, PhD  
Assistant Professor of Communication  
Communication Division, Seaver College  
Pepperdine University  
[dorothy.andreas@pepperdine.edu](mailto:dorothy.andreas@pepperdine.edu)  
310-506-4430

Be | 68

**Greenwood, Carol**

---

**From:** Gibson, Kathy  
**Sent:** Wednesday, March 16, 2011 1:00 PM  
**To:** Lubinski, John  
**Subject:** Re: Staffing Ops Center 24/7

Ok

---

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**To:** Gibson, Kathy  
**Sent:** Wed Mar 16 11:05:32 2011  
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(b)(5);(b)(6)

BC/69



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**Cc:** Evans, Michele

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