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**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 4:20 PM  
**To:** Sabisch, Andrew  
**Cc:** Croteau, Rick; Jones, William; Bartley, Jonathan; Wert, Leonard  
**Subject:** RE: Summary of Events for Duke Boggs Nozzles being sent to Japan

Thanks Andy...more to come.

Vic

---

**From:** Sabisch, Andrew  
**Sent:** Friday, March 18, 2011 4:16 PM  
**To:** McCree, Victor  
**Subject:** RE: Summary of Events for Duke Boggs Nozzles being sent to Japan

Vic,

Thanks for the positive feedback.

As I sent in the following excerpt from an E-mail to Jonathan earlier . . . . there were a number of players involved in getting to the point where the nozzles from Oconee are preparing to touch-down in Japan

"This is clearly a situation where everyone in the Agency and industry needs to be thinking about possible solutions as we did in this case. All I did was to serve as a small cog in a big process and that was recognizing that there was something that might help - the station had a myriad of people that helped pull the material together, get them packed, transport them to Atlanta and then assist in pulling training material together. The Region had people like you that listened to the idea to determine if it had merit and communicated it up the chain. I had help from Kevin running the gauntlet getting info for the Reactor Safety Team and INPO as requested. I hope you factor this into any response to the OPA request I am forwarding you as there were a number of key people both within the NRC and at Duke that had a hand in this and if it in fact helps the situation unfolding half a world away, they all need to be recognized at least internally"

I hope that what we identified plays a small role in the overall solution to a bad situation. I have said in my presentations over the years that any event worldwide affects us all and this will clearly drive that point home.

I think we all have the people at the plant and the NRC staff in country in our thoughts and prayers . . . . and hope that the outcome is contained to the greatest degree possible.

Andy

=====  
Andrew T. Sabisch  
U.S. Nuclear Regulatory Commission  
Senior Resident Inspector  
Oconee Nuclear Station  
7812B Rochester Highway, Seneca, SC 29672  
(O) 864-873-3001 / (C) (b)(6) / (H) (b)(6)

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**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 3:45 PM  
**To:** Bartley, Jonathan; Wert, Leonard; Croteau, Rick; Jones, William  
**Cc:** Sabisch, Andrew  
**Subject:** RE: Summary of Events for Duke Boggs Nozzles being sent to Japan

Andy – thanks again for bringing the availability of this device to our attention. BZ!

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**From:** Bartley, Jonathan  
**Sent:** Friday, March 18, 2011 3:35 PM  
**To:** McCree, Victor; Wert, Leonard; Croteau, Rick; Jones, William  
**Cc:** Sabisch, Andrew  
**Subject:** Summary of Events for Duke Boggs Nozzles being sent to Japan

Vic, per our earlier discussion.

3/16 - Andy contacted me in the morning about a device Duke had developed to provide SFP cooling with pool integrity lost (B.5.b event) to see if we should consider mentioning it for use in Japan. I asked Andy to provide me a writeup describing the device.

3/16 @ 1340 Andy provided me the writeup (attached). I reviewed the writeup and decided the device should be considered. I received Rick's concurrence and forwarded the information to the HOO at 1428.

3/16 ~1830 HQ reactor safety team contacted Andy to see if he could coordinate with Duke to crate and be prepared to ship 4 "Boggs Boxes" to Japan. Andy responded back to the site and coordinated with the licensee to have four nozzles crated for shipment. These were spare nozzles. Ocone will fabricate additional nozzles to replace the spares.

3/17 Andy and Kevin Ellis coordinate with the Reactor Safety Team, Duke, and INPO to get the nozzles transported to Dobbins ARB and shipped to Vandenberg AFB in California. Andy and Kevin also worked with Duke and INPO to create a concise operating guide and have it translated into Japanese by Japanese personnel on assignment at INPO. Andy and Kevin also participated in several phone calls with the Reactor Safety Team and our team in Japan describing the device and how to set it up.

Here is a link showing testing of the device [S:\SFP Spray Nozzle Video \(ONS\)\Boggs box.wmv](#)

Jonathan Bartley  
Chief, Reactor Projects Branch 1  
Division of Reactor Projects, Region II  
U. S. Nuclear Regulatory Commission  
[jonathan.bartley@nrc.gov](mailto:jonathan.bartley@nrc.gov)  
Office: 404.997.4607  
Cell: (b)(6)

## **DUKE ENERGY**

### **DEVICE USED TO PROVIDE COOLING TO SPENT FUEL AND ADD INVENTORY TO THE POOL FOLLOWING AN EVENT SUCH AS A B.5.b SITUATION**

Duke Energy has designed and constructed a device to allow for the spent fuel pool to be sprayed in the event makeup capability is lost following an event such as a B.5.b event or breach in the pool itself. This device was developed following the requirement to address post 9-11 events. Testing at all three sites showed that it effectively provided spray coverage for the entire area of the spent fuel pools at Oconee, Catawba and McGuire. The unique function and performance of the device was recognized during B.5.b inspections conducted in the 2005-2006 time frame at all three sites by NRC inspectors from HQ.

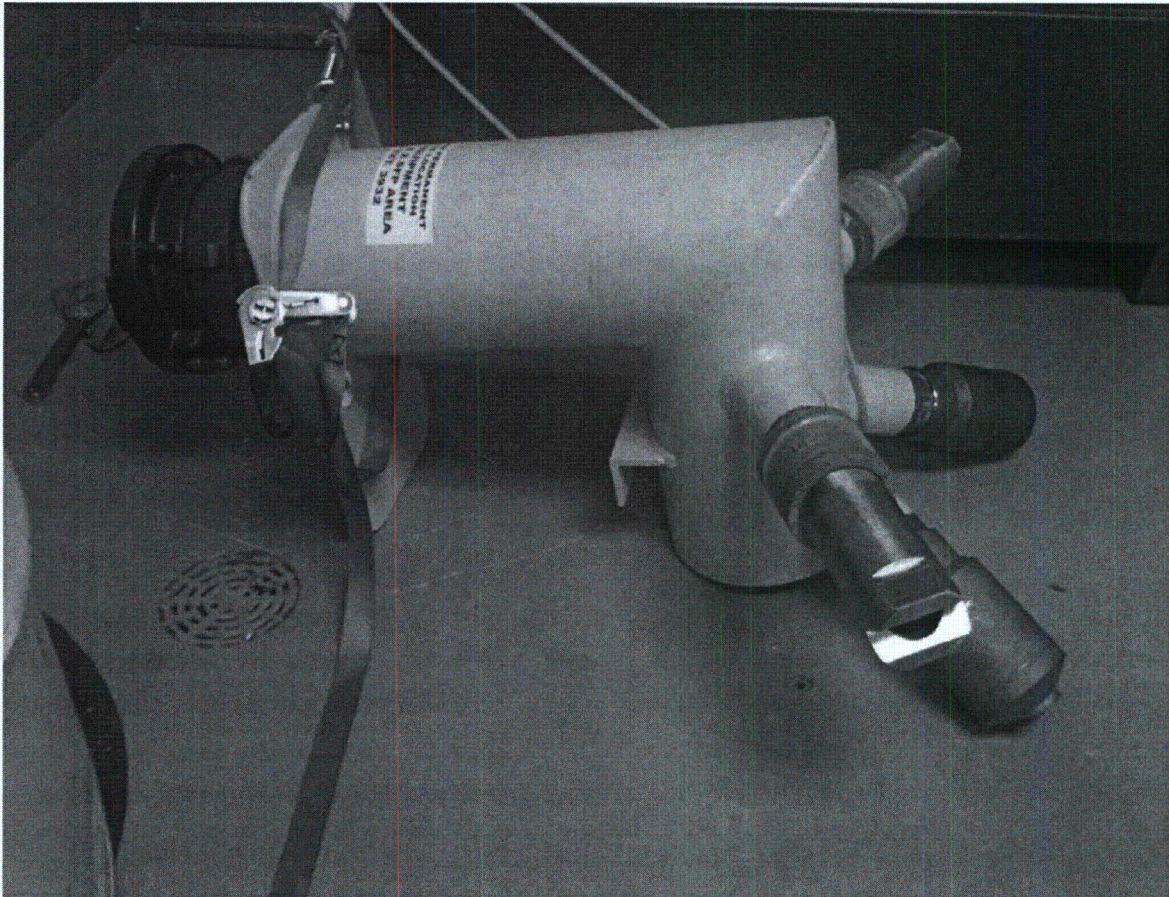
The benefits that this device offers include:

- Providing cooling and makeup the spent fuel pools
- Being able to provide this via a single 5 inch fire hose with pumps located a considerable distance from the nozzle (which can be operated unmanned)
- A scrubbing affect to reduce any airborne activity from the spent fuel due to the spray pattern
- A single, light weight piece of equipment that is portable and simple to operate
- No moving parts ensures durability in use and operation

The device is designed to be supplied with a large diameter fire hose via a 5 Inch Storz Connection and will deliver up to 500 GPM to the spent fuel pool area. The device weighs approximately 20 lbs, is very portable and is constructed of ordinary steel. It is designed to be put in place at the spent fuel pool and left unmanned to maintain coverage of the spent fuel pool. The large diameter supply line allows water to be supplied from large distances with friction loss at a minimum. It can be supplied by existing plant equipment, external pumps or fire apparatus at pressures up to 300 psi. The nozzles can be adjusted to ensure complete spent fuel pool coverage. As an added benefit the nozzle spray can be utilized to scrub the air as it maintains level keeping airborne contamination levels at a minimum and can be used to extinguish fires that may occur in the spent fuel pool. The device can supply water as long as water can be pumped to it.

The device used at Oconee covers the full surface area of the spent fuel pool which measures approximately 85' x 25' in size. It can easily be modified to cover a pool of any size.

## PHOTOS OF THE DEVICE

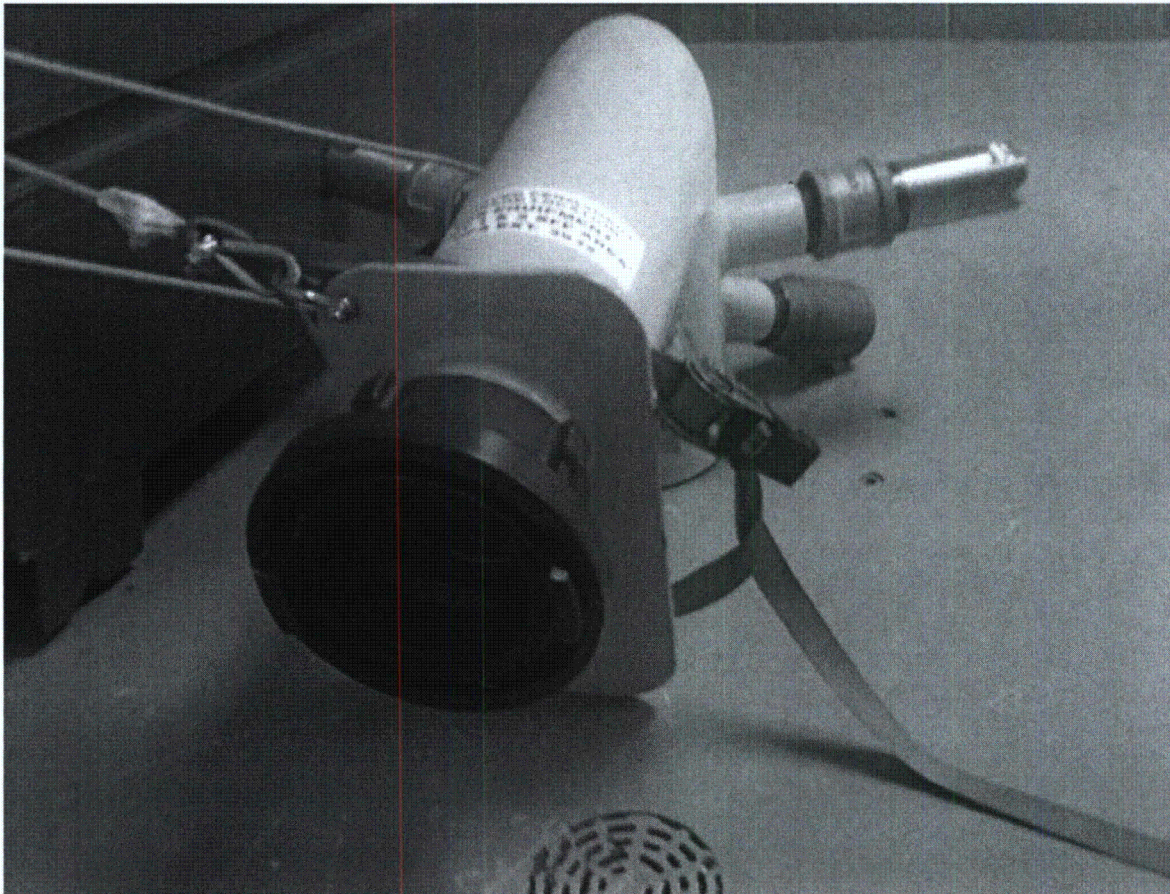


The construction of the nozzle is very straight forward. Two pieces of pipe are welded in a 90-degree bend. The hose fitting in the rear is threaded to the pipe connection and uses a 5-inch hose connection. The connection allows for a rapid connection to be made when setting it up. The spray nozzles are designed to provide a full spray pattern that covers the entire pool area.

The device is intended to be placed on the edge of the spent fuel pool and when charged, water pressure holds it in place. It can also be attached using tie-down straps as seen in the photo above.

**NOTE:** With the dimensions of the Fukushima Daiichi spent fuel pool being provided, the appropriate nozzle size and number could be easily calculated to ensure coverage was provided.

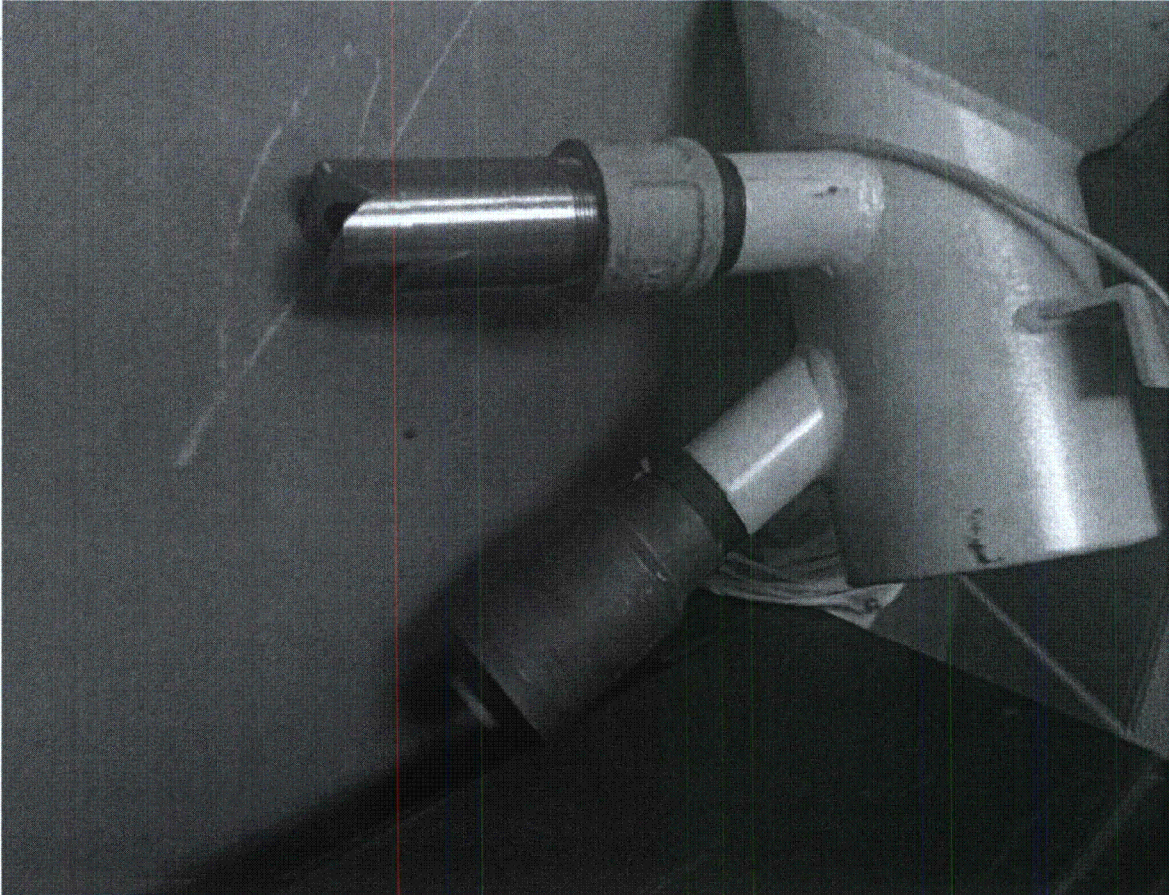
## The Back of the Device Showing the Hose Connection



The device as used at the Duke Energy stations features a threaded hose connection. Any connection to a water supply can be used to serve the same function.

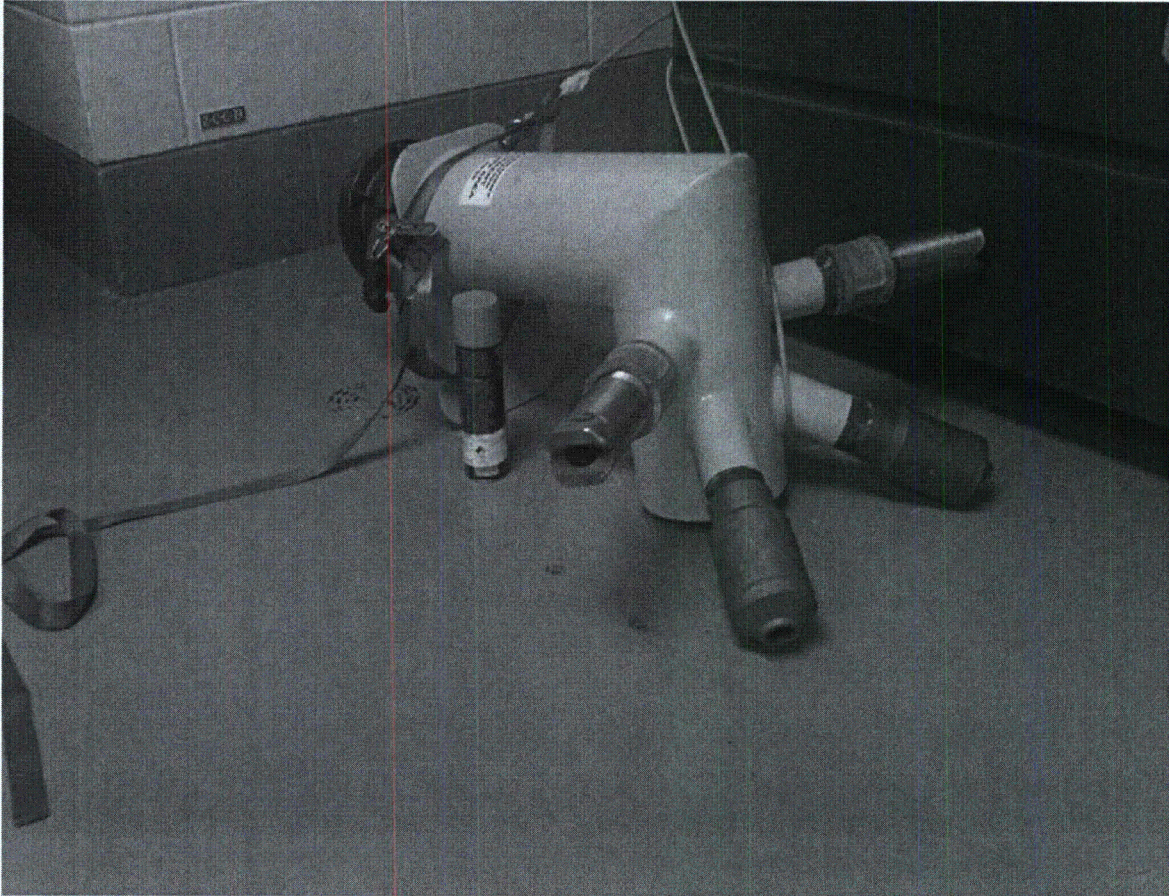
The tie-downs can be seen in this photo as well.

## Close-up of the Nozzles on the Device



The number and specific pattern of the nozzles can be easily tailored to meet the demands of the specific pool size. Once the size is defined, the nozzles can be fabricated and installed.

Overview of the Device  
(see spray can for relative size)



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**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 3:31 PM  
**To:** Wert, Leonard  
**Subject:** FW: Ask Region II Management - webform submittal

Len,

I'm not sure if this is the same HQ questioner who posed a very similar question to Bill Borchardt during today's brief, but our response should echo Bill's words.

Vic

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**From:** AskRIIMgmt@nrc.gov [mailto:AskRIIMgmt@nrc.gov]  
**Sent:** Friday, March 18, 2011 3:08 PM  
**To:** McCree, Victor; Casto, Chuck; Wert, Leonard; Easum, Thomas  
**Subject:** Ask Region II Management - webform submittal

You have received the following question. This may be answered at -  
<http://r2.nrc.gov/Webapps/AskTheRa/mgmtAskTheRA.asp>

## Ask RII Management

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The NRC is missing a very big opportunity to communicate and serve the public. We complain a lot about misrepresentation of nuclear in the media and with the events in Japan the American people are listening, but we aren't saying anything. Many Americans are frightened, they think this could happen here, or the radiation will cross the ocean, or that a nuclear bomb like blast is imminent at the Japanese reactors. I don't see much on the public website. While all sorts of confused information and misinformation is coming from the media, I find it hard to believe the U.S. Nuclear Regulatory Commission, an independent agency, committed to public safety, openness, and service, is apparently not doing much of anything to go on the record to inform the American people about what we do and don't know and what could and couldn't happen. I understand this isn't something the region can do much about, but I look forward to management's comments. Thank you.

Name: **unknown**  
Division: **unknown**



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**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 3:28 PM  
**To:** Taylor, Ryan  
**Cc:** Hopper, George; King, Michael  
**Subject:** RE: Region II TI-183 Comments (draft)

Ok, thanks...

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**From:** Taylor, Ryan  
**Sent:** Friday, March 18, 2011 12:43 PM  
**To:** McCree, Victor  
**Cc:** Hopper, George; King, Michael  
**Subject:** Region II TI-183 Comments (draft)

Victor,

For your review - Attached are the TI-183 comments that Branch 7 has received as of today.

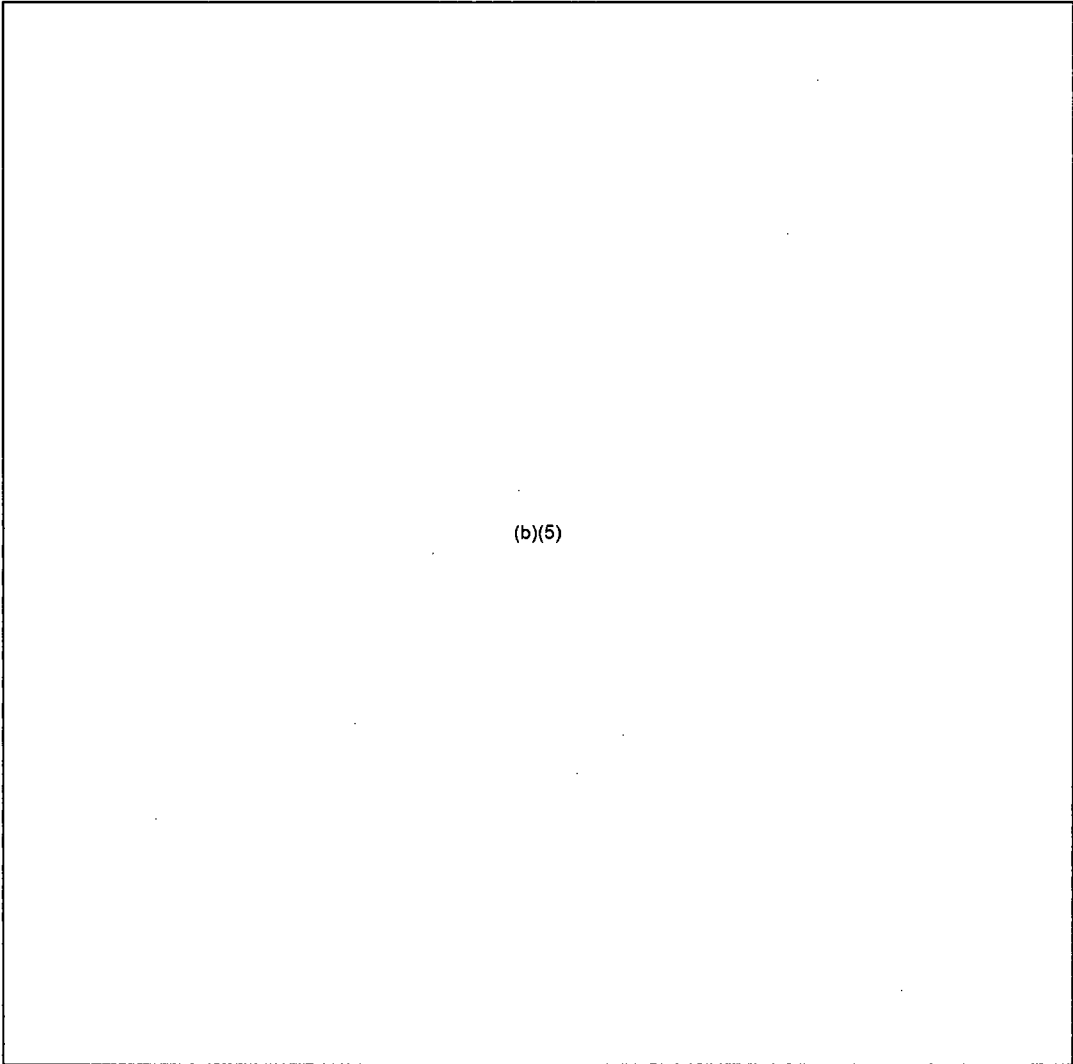
**Ryan C. Taylor | Senior Project Inspector - RII/DRP/RPB7**  
**US Nuclear Regulatory Commission**  
**245 Peachtree Center Ave. NE, Suite 1200 | Atlanta, GA 30303**  
**D: 404.997.4630 | F: 404.997.4515**  
**[Ryan.Taylor@nrc.gov](mailto:Ryan.Taylor@nrc.gov) | [www.nrc.gov](http://www.nrc.gov)**

**NRC INSPECTION MANUAL**

IRIB

TEMPORARY INSTRUCTION 2515/183

**FOLLOW-UP TO FUKUSHIMA DAIICHI NUCLEAR STATION FUEL DAMAGE  
EVENT**



Issue Date:

1

2515/183

(b)(5)

Issue Date:

2

2515/183

(b)(5)

Issue Date:

3

2515/183

(b)(5)

Issue Date:

4

2515/183

CJ 1599 of 1949

ATTACHMENT 1

Revision History for TI 2515/???

REVIEW OF THE IMPLEMENTATION OF THE INDUSTRY INITIATIVE ON UNDERGROUND PIPING AND TANKS

Commitment Tracking Number	Issue Date	Description of Change	Training Needed	Training Completion Date	Comment Resolution Accession Number
(b)(5)					

[Type text]

TI-183 Comments  
Region II

(b)(5)

(b)(5)



(b)(5)

(b)(5)

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 3:23 PM  
**To:** Croteau, Rick; Wert, Leonard; Munday, Joel  
**Subject:** RE: EOC MEETINGS  
**Attachments:** image001.png; image002.gif

Thanks Rick. I appreciate what the other Regions may do.... However, I want you to plan assuming that the events in Japan will attract multiple members of the public and media reps to each of our upcoming EOC meetings. With that in mind, Len, Joel and I will work our schedules to cover the 8 meetings (below) that you or Bill have not already signed up to attend. I'll participate in the Browns Ferry EOC and will work with Gene to try to cover Watts Bar as well.

(b)(5)

Vic

**From:** Croteau, Rick  
**Sent:** Friday, March 18, 2011 9:00 AM  
**To:** McCree, Victor; Wert, Leonard; Munday, Joel  
**Subject:** RE: EOC MEETINGS

The current schedule/plans are below. Talking to the other regions DRP DD,

(b)(5)

We can

We may need some help to cover Harris.

Brunswick		Musser, Randy	Meeting will be in May (Date TBD)
Sequoyah			
Summer		MCCoy, Gerald	Meeting in Late May after the spring outage.
Turkey Point			
Watts Bar			
Robinson	3/24/2011	Croteau, Rick	2:00 pm
Farley	3/31/2011	Croteau, Rick	3:00 pm
North Anna	4/4/2011	Jones, William	
Surry	4/6/2011	Jones	
St. Lucie	4/13/2011	Croteau, Rick	
Harris	4/14/2011	Musser, Randy	
Oconee	4/19/2011	Jones, William	
Vogtle	4/19/2011	Croteau	6:00pm
Hatch	4/21/2011	Croteau, Rick	6:00 pm
McGuire	4/27/2011	croteau	
Catawba	4/28/2011	croteau	

Browns Ferry

5/31/2011

Crystal River

6/7/2011

Rich, Daniel

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

From: McCree, Victor

Sent: Friday, March 18, 2011 8:44 AM

To: Croteau, Rick; Wert, Leonard; Munday, Joel

Subject: FW: EOC MEETINGS

See below, FYI.

As we discussed yesterday, I want either you (or perhaps Bill), Joel, Len or I to be on hand for each our EOC meetings. Let's discuss this on Monday.

Thanks, Vic

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

From: Collins, Elmo

Sent: Friday, March 18, 2011 8:34 AM

To: Lew, David; Pederson, Cynthia; Dean, Bill; McCree, Victor; Leeds, Eric; Satorius, Mark

Cc: Wert, Leonard; Howell, Art; West, Steven; Shear, Gary; Kennedy, Kriss; Virgilio, Martin; Leeds, Eric

Subject: RE: EOC MEETINGS

Region IV plans to reschedule one EOC meeting, originally scheduled for Thursday of last week - Grand Gulf. (b)(5)

We do anticipate press and media interest at all our EOC meetings at a significantly higher level and in the past. We anticipate that the media will want to put an NRC official on camera, since one is in the area in a public meeting. Accordingly, we plan to have an SES manager and OPA rep at all meetings, something we would not have done in the past.

We think NRR, through the communication team that Eric set up, will arm us with a good set of preparation material for these public meetings.

Elmo

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

From: Lew, David

Sent: Friday, March 18, 2011 6:22 AM

To: Pederson, Cynthia; Dean, Bill; McCree, Victor; Leeds, Eric; Collins, Elmo; Satorius, Mark

Cc: Wert, Leonard; Howell, Art; West, Steven; Shear, Gary

Subject: RE: EOC MEETINGS

FYI, We will be deferring TMI and Seabrook AAMs (originally scheduled for 3/24 and 3/30, respectively). In addition to all the reasons that have been previously mentioned, we would be challenged in making certain staff available for the open house (e.g., the PAO, RA), since some of these same folks are currently supporting the agency in the ongoing NRC response to the Japanese event and media interest.

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

From: Pederson, Cynthia

Sent: Thursday, March 17, 2011 10:13 AM

To: Dean, Bill; McCree, Victor; Leeds, Eric; Collins, Elmo; Satorius, Mark

Cc: Lew, David; Wert, Leonard; Howell, Art; West, Steven; Shear, Gary

Subject: RE: EOC MEETINGS

We are fortunate that we have a little more time than some of you in that our first "meetings" are April 5th and they are open houses. These locations (Monticello and Quad Cities) have had next to no local interest in the past though we expect some this year based on media questions coming in currently. We are planning to invite FEMA to at least some of our events. At this stage we are planning for PA support but are not planning on escalating management level of attendance. (Of course this could change as events unfold.)

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

From: Dean, Bill  
Sent: Thursday, March 17, 2011 9:08 AM  
To: McCree, Victor; Leeds, Eric; Collins, Elmo; Satorius, Mark  
Cc: Lew, David; Wert, Leonard; Pederson, Cynthia; Howell, Art  
Subject: Re: EOC MEETINGS

Sounds like we are considering similar augmentation tactics. Of course Dave and I have already divvied up VY and Ind pt sites and we are looking to up the participation level elsewhere. Agree that we are making progress in getting a solidified agency message together.

Bill Dean  
Regional Administrator  
Region I, USNRC  
Sent from NRC BlackBerry

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

From: McCree, Victor  
To: Dean, Bill; Leeds, Eric; Collins, Elmo; Satorius, Mark  
Cc: Lew, David; Wert, Leonard; Pederson, Cynthia; Howell, Art  
Sent: Thu Mar 17 05:28:20 2011  
Subject: Re: EOC MEETINGS

Thanks Bill - I understand your concerns, particularly regarding TMI. In fact, during one of my meetings with staff on yesterday, there was a collective groan when I mentioned that TMI would be your first EOC plant.

As you know, I strongly encouraged the creation of Q&As to better prepare our folks for the meetings. Given the Q&As and the Chairman's testimony yesterday, I feel like we're in a sufficient position in Region II (where we have a couple of facilities that will attract passionate and engaging stakeholders) to move forward with our meetings, as currently scheduled. FYI, we plan to have the Director or Deputy Director DRP participate in all of our EOC meetings. Also, either I or Len will participate in our 3 BWR site EOC meetings.

Vic

This email is being sent from an NRC Blackberry device.

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

From: Dean, Bill  
To: McCree, Victor; Leeds, Eric; Collins, Elmo; Satorius, Mark  
Cc: Lew, David  
Sent: Wed Mar 16 23:01:50 2011  
Subject: RE: EOC MEETINGS

the downside is putting a branch chief, or even an SES manager in a position that they may not be comfortable being in, without adequate guidance/direction/information to provide a consistent and approved message. Until the chairman's testimony today, there has not been a single NRC representative interviewed in a televised media, and do we really want a branch chief to be that person. There is definitely a dichotomy between sites with high interest and what could be expected in terms of protests, media, intervenors, etc. and those that typically receive very little attention. I am suggesting that we ALL have a comfortable feeling that we

are appropriately prepared for this evolution. My Branch CHiefs at this point do not feel prepared. Perhaps the recent release of information associated with today;s testimony will help. I asked my team to make a decision by the end of week whether to postpone next thursday;s TMI meeting. I think we can all appreciate the significance that site holds relative to the history of nuclear power and its clear juxtaposition to the events of the past few days.

Additionally, i have asked Eric if there could be materials developed that we all could use to help explain in layman's terms, what has transpired in Japan and he was going to outreach to RES which does well in preparing posters and other similar materials. Not unlike the agency's decision to delay the issuance of the Vermont Yankee license renewal to allow us to appropriately focus on the current events, i feel comfortable in using a similar rationale to delay our assessment meeting a week or so to give us time to be prepared and maybe have in hand some good pictorials that can help explain things.

i included dave lew in the email as he is acting for me the next few days.

---

From: McCree, Victor  
Sent: Wednesday, March 16, 2011 10:33 PM  
To: Leeds, Eric; Dean, Bill; Collins, Elmo; Satorius, Mark  
Subject: EOC MEETINGS

Gents,

I've been reflecting on our abbreviated conversation today regarding the suggestion to delay the subject meetings. I was unsure where we left the matter..., but given that our EOC meetings are scheduled to begin in 1 week, I wanted to make sure that we're on the same page.

I considered the questions shown below and, after answering them, feel comfortable holding to the current EOC meeting schedule. However, there may be other questions and concerns that ought to be factored into the decision:

- (i) What is the downside(s) of holding the EOC meetings as scheduled?
- (ii) What, if any, messages would we send to stakeholders if we delay the meetings?
- (iii) If we delay the meetings, how long should we wait to reschedule them and/or what information should we possess before holding the meetings?

Your thoughts?

Vic

This email is being sent from an NRC Blackberry device.

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**From:** Ogle, Chuck  
**Sent:** Friday, March 18, 2011 3:18 PM  
**To:** McCree, Victor  
**Cc:** Moorman, James  
**Subject:** FW: NPJ March 18, 2011 Japan Update

The JAIF document below presents a lot of info quickly,

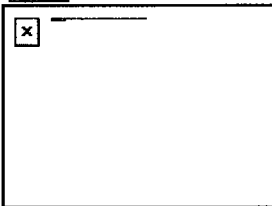
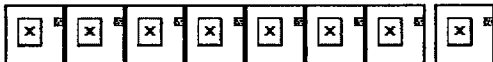
(b)(5)

(Don't know if the data is correct.)

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**From:** Nuclear Plant Journal [mailto:anu@goinfo.com]  
**Sent:** Friday, March 18, 2011 2:53 PM  
**To:** Ogle, Chuck  
**Subject:** NPJ March 18, 2011 Japan Update

Having trouble viewing this email? [Click here](#)



## Nuclear Plant Journal E-News

**Japan Update**  
March 18, 2011

Dear CHARLES R.,

In this issue of NPJ E-News you'll find an update of the Fukushima Nuclear Plants in Japan. Information is current as of March 18, 2011, 13:00 CDT. All items are directly quoted, without any editing.

### In this issue

[Chief Cabinet Secretary](#)

[TEPCO](#)

[JAIF](#)

### Chief Cabinet Secretary's Update

Operation for filling the spent fuel pool with water at Unit-3 was conducted yesterday. It seems that water reached the pool. However, how much is unknown. Same operation will be conducted today.

- Operation for filling the spent fuel pool with water from the ground will be conducted at unit-1 also, if it doesn't affect the operation for unit-3.
- Operation for installing cables and distribution system to the power plant to provide AC power from the grid is going on.
- [Click for more...](#)

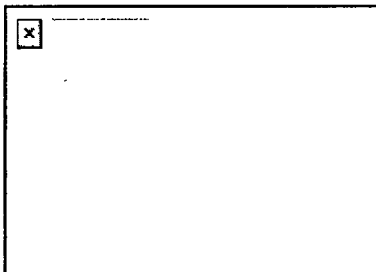
**Status Updates of TEPCO Facilities**

On March 18th, regarding the spent fuel in the common spent fuel pool, we have confirmed that the water level of the pool is secured. A detailed inspection is under preparation.

On March 17th, we patrolled buildings for dry casks and found no signs of abnormal situation for the casks by visual observation. A detailed inspection is under preparation.

Since March 12th, we had been preparing measures for reducing the pressure of reactor containment vessels (partial discharge of air containing radioactive materials to outside), but on March 17th, we released such preparation in all Units.

[Click for more...](#)



**JAIF Status Update**

A [single-page PDF document](#) provides a simple summary of each of the units at Fukushima nuclear power plants.

**Quick Links...**

[NPJ Website](#)

[Cost-free Subscription](#)

**Contact Information**

phone: 630-313-6739

email: [NPJ@goinfo.com](mailto:NPJ@goinfo.com)

**[Forward email to an associate.](#)**



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 Nuclear Plant Journal | 1400 Opus Place, Suite 904 | Downers Grove | IL | 60515



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**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 3:03 PM  
**To:** Wert, Leonard  
**Subject:** Re: Great Job by Bill !

I agree...well done!

This email is being sent from an NRC Blackberry device.

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**From:** Wert, Leonard  
**To:** McCree, Victor  
**Sent:** Fri Mar 18 14:56:50 2011  
**Subject:** Great Job by Bill !

I listened in on the call to ensure I knew what was shared, Bill was very impressive, handled the "lack of comms" question very well. I'm glad he is up there.

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 1:44 PM  
**To:** Rudisail, Steven  
**Subject:** RE: left her a voice mail

K – also send her an email and cc Nader Mamish and me....

---

**From:** Rudisail, Steven  
**Sent:** Friday, March 18, 2011 1:43 PM  
**To:** McCree, Victor  
**Subject:** left her a voice mail

With my office and cell number with the question you told me to pose.

Steven Rudisail  
Sr. Emergency Response Coordinator  
Plant Support Branch 1  
Division of Reactor Safety, Region II  
U.S. Nuclear Regulatory Commission  
Region II  
Atlanta, GA  
404-997-4512 (office)  
(b)(6) (cell)

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**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 1:35 PM  
**To:** Bernhard, Rudolph  
**Subject:** RE: Passport Status Update: Request for New Passport to replace expired one completed and submitted yesterday

K got it

---

**From:** Bernhard, Rudolph  
**Sent:** Friday, March 18, 2011 1:30 PM  
**To:** McCree, Victor  
**Subject:** RE: Passport Status Update: Request for New Passport to replace expired one completed and submitted yesterday

Talked to neighbor who got one about 2 months ago. Took about three weeks regular. Expedite on the web said would get in 3 weeks. Just put it in regular process. I figure that if it gets there in two days (New Orleans), and if STATE wants to expedite it, the paperwork is available in their house to do it...

Rudy

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 1:25 PM  
**To:** Bernhard, Rudolph  
**Subject:** RE: Passport Status Update: Request for New Passport to replace expired one completed and submitted yesterday

K got it...did you expedite it and, if so, how soon will you get it?

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**From:** Bernhard, Rudolph  
**Sent:** Friday, March 18, 2011 1:06 PM  
**To:** McCree, Victor  
**Subject:** Passport Status Update: Request for New Passport to replace expired one completed and submitted yesterday

Passport Status Update: Request for New Passport to replace expired one completed and submitted yesterday

Post Office Passport Facility should have sent it off yesterday.

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**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 1:31 PM  
**To:** Leeds, Eric  
**Subject:** RE: Heads up!!!! 50 mile EPZ

Got it, thanks Eric.

---

**From:** Leeds, Eric  
**Sent:** Friday, March 18, 2011 1:12 PM  
**To:** Collins, Elmo; Dean, Bill; Satorius, Mark; McCree, Victor  
**Cc:** Howell, Art; Pederson, Cynthia; Lew, David; Wert, Leonard; Nelson, Robert  
**Subject:** Heads up!!!! 50 mile EPZ

FYI – We’re working on a Q&A on the 50 mile EPZ issue. See below for details. We will keep checking to get it to you for your people as best we can.

Eric J. Leeds, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
301-415-1270

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**From:** Nelson, Robert  
**Sent:** Friday, March 18, 2011 1:04 PM  
**To:** Leeds, Eric  
**Subject:** FYI: Talking Points (3-17 (7:30 p.m. EDT))

Attached is the latest that I have. See the status below from the Liaison Team. I'll share status with my regional contacts.

NELSON

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**From:** LIA06 Hoc  
**Sent:** Friday, March 18, 2011 12:43 PM  
**To:** Nelson, Robert  
**Subject:** RE: Talking Points (3-17 (7:30 p.m. EDT))

Yes Bob, we are engaged. The decision is not to share details on the basis for the EPZ outside of the federal family yet. I asked Rich Turtill to put together a proposal of what information should be shared with the states by NRC, even though DOE has the lead for communications with the states, and he and I will take it to the ET for consideration. That will probably happen later on today.

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

---

**From:** Nelson, Robert  
**Sent:** Friday, March 18, 2011 12:41 PM

**To:** LIA06 Hoc  
**Subject:** FYI: Talking Points (3-17 (7:30 p.m. EDT))

Mark Lombard:

There is a get deal of angst about getting the Q re: the 50 mike EPZ finalized & releasable. Is the Liaison Team involved? If so, what's the status. If not, who should I talk to?

NELSON

---

**From:** Markley, Michael  
**Sent:** Friday, March 18, 2011 11:35 AM  
**To:** Nelson, Robert  
**Subject:** FW: Talking Points (3-17 (7:30 p.m. EDT))

Attached are the draft OPA talking points.

---

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 9:44 AM  
**To:** Markley, Michael  
**Subject:** FW: Talking Points (3-17 (7:30 p.m. EDT))

Per your request.

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

~~\*\*\*\*\*FOR OFFICIAL USE ONLY\*\*\*\*\*~~

~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

---

**From:** OST05 Hoc  
**Sent:** Friday, March 18, 2011 9:43 AM  
**To:** LIA05 Hoc  
**Subject:** FW: Talking Points (3-17 (7:30 p.m. EDT))

---

**From:** OST05 Hoc  
**Sent:** Friday, March 18, 2011 7:55 AM  
**To:** Nguyen, Quynh; Meighan, Sean  
**Cc:** LIA04 Hoc; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Collins, Elmo; Dean, Bill; 'Heck, Jared'; McCree, Victor; Pederson, Cynthia; Satorius, Mark; Easson, Stuart; Flannery, Cindy; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta  
**Subject:** Talking Points (3-17 (7:30 p.m. EDT))

Sean and Quynh –

Please update the file on the Sharepoint site with the attached Talking Points.

Kim Lukes  
State Liaison – Liaison Team



---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 12:17 PM  
**To:** Casto, Chuck  
**Subject:** RE: (b)(5)

Got it..this is odd...I'll try to get more intelligence.

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

**From:** Casto, Chuck  
**Sent:** Friday, March 18, 2011 12:05 PM  
**To:** McCree, Victor  
**Subject:** (b)(5)

(b)(5). Wiggins told me they are sending dorman over in a few days to relieve me. Then they would stage out the staff. (b)(5)

(b)(5)

(b)(5)

(b)(5). An amazing experience none the less I enjoyed it greatly and appreciate the honor of getting an invaluable experience.

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 12:15 PM  
**To:** Evans, Michele  
**Cc:** Mamish, Nader; Leeds, Eric  
**Subject:** Nominee

Michelle,

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

Vic

**Victor M. McCree**  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region II



245 Peachtree Center Ave., NE  
Suite 1200  
Atlanta, GA 30303  
404-997-4411  
[victor.mccree@nrc.gov](mailto:victor.mccree@nrc.gov)

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 11:56 AM  
**To:** R2MAIL; R2\_RESIDENT SITES  
**Subject:** ~~FOR OFFICIAL USE ONLY~~ - 0600 EDT (March 18, 2011) USNRC Earthquake/Tsunami SitRep - ~~FOR OFFICIAL USE ONLY~~  
**Attachments:** NRC Status Update 3-18 11--0600am.pdf

~~FOR OFFICIAL USE ONLY~~

Attached, for your information, is the 0600, March 18, 2011, NRC situation report regarding the impacts of the earthquake/tsunami event. For your convenience, the document has been (yellow) highlighted to show several noteworthy status items. As a reminder, this information is considered ~~FOR OFFICIAL USE ONLY~~ and is not to be distributed outside the agency.

Also, a Commission briefing on the NRC's response to the recent nuclear events in Japan will be held on Monday, March 21, 2011 at 9:00 am. This is a public meeting and can be viewed via webcast. Please use the following link to access the webcast: <http://www.nrc.gov/public-involve/public-meetings/webcast-live.html>

Vic

~~FOR OFFICIAL USE ONLY~~

---

**From:** Trojanowski, Robert  
**Sent:** Friday, March 18, 2011 8:39 AM  
**To:** McCree, Victor; Wert, Leonard; Croteau, Rick; Jones, William; Hannah, Roger; Ledford, Joey; Munday, Joel; Bernhard, Rudolph; Hopper, George; Woodruff, Gena; Piccone, Josephine; Turtill, Richard; Virgilio, Rosetta; Sparks, Scott; Gody, Tony; [redacted] (b)(6); Ryan, Michelle; Noonan, Amanda; Christensen, Harold  
**Subject:** \* \* \* Fukushima Event \* \* \*  
**Attachments:** Fukushima Event - FPL Response.ppt

FYI, in the event that you have not already seen this.

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 8:11 AM  
**To:** Trojanowski, Robert  
**Subject:** RE: NCarolina Inquiry

Got it, thanks.

---

**From:** Trojanowski, Robert  
**Sent:** Friday, March 18, 2011 7:59 AM  
**To:** McCree, Victor; Croteau, Rick  
**Cc:** Jones, William; Wert, Leonard; Woodruff, Gena  
**Subject:** RE: NCarolina Inquiry

Vic & Rick, I just spoke with Lee, there is some uncertainty as to whether this briefing will occur now; however, if it does, [REDACTED] (b)(5)  
-----Bob

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 7:23 AM  
**To:** Croteau, Rick  
**Cc:** Jones, William; Wert, Leonard; Trojanowski, Robert; Woodruff, Gena  
**Subject:** FW: NCarolina Inquiry

Rick,

See below. [REDACTED] (b)(5)

Vic

---

**From:** Trojanowski, Robert  
**Sent:** Friday, March 18, 2011 7:18 AM  
**To:** McCree, Victor  
**Cc:** Wert, Leonard; Woodruff, Gena  
**Subject:** RE: NCarolina Inquiry

Vic, are you going to be in the office today, 3/18/2011; otherwise, we can exchange info via E-Mail.

I have no particular concern with what Lee is proposing, this is an internal State concern, obviously coordinated through the licensee, and while he certainly doesn't need our approval to proceed, he was gracious enough to grant us the courtesy of letting us know what his plans are.

[REDACTED] (b)(5)

Lee is a class act, and there is no question in my mind that whatever he does will be conducted in a professional manner

Please let me know your thoughts, he did place a call to me, I haven't called him back yet-----  
Bob

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 5:19 AM  
**To:** Trojanowski, Robert  
**Cc:** Wert, Leonard  
**Subject:** Fw: NCarolina Inquiry

Bob - let's discuss before responding....

Vic

This email is being sent from an NRC Blackberry device.

---

**From:** LIA04 Hoc  
**To:** Trojanowski, Robert; Woodruff, Gena  
**Cc:** Virgilio, Rosetta; McCree, Victor; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard  
**Sent:** Thu Mar 17 21:36:53 2011  
**Subject:** NCarolina Inquiry

Bob/Gena:

(b)(5)

Richard Turtill  
State Liaison – Liaison Team  
Incident Response Center

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 7:49 AM  
**To:** Nease, Rebecca  
**Cc:** Wert, Leonard  
**Subject:** RE: Cmr Assistants' brfg moved to 9am

K thanks

---

**From:** Nease, Rebecca  
**Sent:** Friday, March 18, 2011 7:48 AM  
**To:** McCree, Victor  
**Cc:** Wert, Leonard  
**Subject:** Cmr Assistants' brfg moved to 9am

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 6:32 AM  
**To:** R2SR\_MANAGERS  
**Subject:** Fw: USNRC Earthquake-Tsunami Update.031811.0600EDT  
**Attachments:** NRC Status Update 3-18 11--0600am.pdf

See attached, FYI. I will send this to all R2 staff later today.

Vic

This email is being sent from an NRC Blackberry device.

---

**From:** LIA07 Hoc  
**To:** LIA07 Hoc  
**Sent:** Fri Mar 18 06:13:45 2011  
**Subject:** USNRC Earthquake-Tsunami Update.031811.0600EDT

Attached, please find a 0600 EDT from March 18 situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 11, 2011.

Please note that this information is "~~Official Use Only~~" and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

Thank you,

Rebecca Clinton  
EBT Coordinator

---

**From:** McCree, Victor  
**Sent:** Friday, March 18, 2011 5:37 AM  
**To:** Croteau, Rick  
**Subject:** Draft TI and Proposed II Comments

G'morning Rick,

When you get a chance, I'd like to take a look at the subject documents....

Vic

This email is being sent from an NRC Blackberry device.



---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 5:50 PM  
**To:** R2SR\_MANAGERS  
**Subject:** FW: 1700 EDT (March 17, 2011) USNRC Earthquake/Tsunami SitRep  
**Attachments:** USNRC Earthquake-Tsunami Update.031711.1700EDT.pdf

See attached.

Vic

---

**From:** LIA07 Hoc  
**Sent:** Thursday, March 17, 2011 5:47 PM  
**Subject:** 1700 EDT (March 17, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 1700 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 17, 2011.

Please note that this information is "Official-Use-Only" and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

-Sara

Sara K. Mroz  
Communications and Outreach  
Office of Nuclear Security and Incident Response  
US Nuclear Regulatory Commission  
[sara.mroz@nrc.gov](mailto:sara.mroz@nrc.gov)  
[LIA07.HOC@nrc.gov](mailto:LIA07.HOC@nrc.gov) (Operations Center)

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 4:02 PM  
**To:** Evans, Michele  
**Subject:** RE: Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Michelle,

As requested, here's updated information on the Region II nominees for long term support in Japan. Changes are shown in yellow highlight text

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

Vic

---

**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.

**Michele**

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 3:10 PM  
**To:** 'McCree, Donna (CDC/OID/NCHHSTP)'  
**Subject:** FW: RA briefing

(b)(6)

(b)(6), Vic

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**From:** Evans, Carolyn  
**Sent:** Thursday, March 17, 2011 11:45 AM  
**To:** McCree, Victor  
**Subject:** RA briefing

I've got to tell you that you are an extremely gifted and effective spokesperson for the agency. What you did during the briefing is bring a degree of gravitas and confidence that is calming. It's a fortunate happenstance that we're without a large conference room, the smaller setting seems more ideal given the quality of the information being shared/discussed. Thanks so much.

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 2:53 PM  
**To:** Hannah, Roger; Ledford, Joey  
**Cc:** Croteau, Rick; Jones, William; Munday, Joel; Christensen, Harold; Gody, Tony; Cobey, Eugene; Wert, Leonard  
**Subject:** FW: Japan event Q&As - additional info

FYI

---

**From:** Leeds, Eric  
**Sent:** Thursday, March 17, 2011 2:38 PM  
**To:** Dean, Bill; McCree, Victor; Satorius, Mark; Collins, Elmo; Lew, David; Wert, Leonard; Pederson, Cynthia; Howell, Art; Boger, Bruce; Grobe, Jack; Wiggins, Jim; Evans, Michele; Sheron, Brian; Uhle, Jennifer; Johnson, Michael; Holahan, Gary; Haney, Catherine; Dorman, Dan; Miller, Charles; Moore, Scott; Doane, Margaret; Mamish, Nader; Boyce, Thomas (OIS); Schmidt, Rebecca; Powell, Amy; Brenner, Eliot; Hayden, Elizabeth; McDermott, Brian  
**Cc:** Virgilio, Martin; Weber, Michael; Ash, Darren; Nguyen, Quynh; Meighan, Sean; Kammerer, Annie; Landau, Mindy; Wittick, Brian; Morris, Scott; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Galloway, Melanie; Giitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David  
**Subject:** Japan event Q&As - additional info

I've assigned Bob Nelson, Deputy Director, Division of Operating Reactor Licensing, as the NRR Coordinator for External Communications related to NRR's response to the recent events in Japan. Nelson and his team will be responsible for coordinating the development and review of related Qs & As, and coordinating the response to related controlled correspondence tasked to NRR, including related 2.206 petitions. Assisting Nelson will be Sean Meighan and Quynh Nguyen from the NRR front office, Eric Thomas from DIRS and a communications "tiger team" being formulated in DORL headed by Mike Markley. Harold Chernoff will also provide assistance as needed. Please forward all of your requests for support in this area to Nelson. (Extension 7298 and cell: (b)(6)).

Eric J. Leeds, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
301-415-1270

---

**From:** King, Michael  
**Sent:** Thursday, March 17, 2011 12:57 PM  
**To:** McCree, Victor; Croteau, Rick; Jones, William  
**Cc:** Hopper, George  
**Subject:** RII Site Quick Look Guide  
**Attachments:** RII Site Quick Look Guide.pdf

Gentlemen,

Attached is a draft report of the information provided by the DRP Branch's to assist in answering questions on RII plant designs related to external events.

I was not sure what format you would prefer, so please let me know if you would prefer a different format, or if you would like additional clarification and/or follow-up on any particular items.

Thanks!

Link to the SharePoint site:

<http://portal.nrc.gov/edo/rii/drp/Lists/Plant%20Quick%20Look%20Guide/AllItems.aspx>

*Mike King*

*Senior Project Inspector*

U.S. Nuclear Regulatory Commission  
Region II - Division of Reactor Projects  
245 Peachtree Center Avenue, NE - Suite 1427  
Atlanta, Georgia 30303  
Office: 404-997-4511  
Mobile: (b)(6)  
Fax: 404-997-4905

# Rll Plant Quick Look Guide

Site	Plant Design Type	Containment Features	Containment	Seismic Design Basis	Fuel Oil Storage	SBO Strategy	Alternate A/C strategy	Tsunami Effects	Other Flooding Events	Unit Differences
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(b)(5)

RII Plant Quick Look Guide

Site	Plant Design Type	Containment Features	Seismic Design Basis	Fuel Oil Storage	SBO Strategy	Alternate A/C strategy	Tsunami Effects	Other Flooding Events	Unit Differences
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(b)(5)



RII Plant Quick Look Guide

Site	Plant Design Type	Containment Features	Seismic Design Basis	Fuel Oil Storage	SBO Strategy	Alternate A/C strategy	Tsunami Effects	Other Flooding Events	Unit Differences
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(b)(5)

# RII Plant Quick Look Guide

Site	Plant Design Type	Containment Features	Containment Features	Seismic Design Basis	Fuel Oil Storage	SBO Strategy	Alternate A/C strategy	Tsunami Effects	Other Flooding Events	Unit Differences
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(b)(5)

RII Plant Quick Look Guide

Site	Plant Design Type	Containment Features	Seismic Design Basis	Fuel Oil Storage	SBO Strategy	Alternate A/C strategy	Tsunami Effects	Other Flooding Events	Unit Differences
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(b)(5)

# RII Plant Quick Look Guide

Site	Plant Design Type	Containment Features	Seismic Design Basis	Fuel Oil Storage	SBO Strategy	Alternate A/C strategy	Tsunami Effects	Other Flooding Events	Unit Differences
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(b)(5)

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**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 12:36 PM  
**To:** Rapp, Curtis  
**Subject:** RE: Japan support

Ok, thanks.

---

**From:** Rapp, Curtis  
**Sent:** Thursday, March 17, 2011 10:22 AM  
**To:** McCree, Victor  
**Subject:** Japan support

Victor:

I am available to support the NRC staff assisting in Japan after July 9th.

---

**From:** Trojanowski, Robert  
**Sent:** Thursday, March 17, 2011 9:19 AM  
**To:** LIA04 Hoc  
**Cc:** McCree, Victor; Wert, Leonard; Hannah, Roger; Ledford, Joey; McNamara, Nancy; Tiff, Doug; Barker, Allan; Logaras, Harra; Maier, Bill; Piccone, Josephine; Virgilio, Rosetta; Ryan, Michelle; Noonan, Amanda  
**Subject:** FW: Notes from DHHS/ASTHO Public Health Conference Call on Japan  
**Attachments:** Notes from DHHS/ASTHO Public Health Conference Call on Japan

FYI---The attached notes were provided to me by Sandra Threatt, South Carolina, Department of Health and Environmental Control.-----Bob

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

**From:** Sandra Threatt [mailto:threatsj@dhec.sc.gov]  
**Sent:** Thursday, March 17, 2011 9:01 AM  
**To:** Trojanowski, Robert  
**Subject:** Fwd: Notes from DHHS/ASTHO Public Health Conference Call on Japan

FYI

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 9:15 AM  
**To:** Wert, Leonard  
**Subject:** RE: Japan Situation

K got it

---

**From:** Wert, Leonard  
**Sent:** Thursday, March 17, 2011 8:32 AM  
**To:** McCree, Victor  
**Subject:** FW: Japan Situation

---

**From:** Boger, Bruce  
**Sent:** Thursday, March 17, 2011 8:31 AM  
**To:** Tracy, Glenn  
**Cc:** Leeds, Eric; Nelson, Robert; Wert, Leonard; Lew, David; Miller, Mark; Cohen, Miriam  
**Subject:** Japan Situation

Glenn, Relative to the NRC folks in Japan, have folks been considering how to interact with their families to share information on what's going on in Japan? Perhaps the travelers have been able to achieve regular phone contact, but now with a voluntary evacuation a greater concern at home may exist. Your thoughts? Bruce

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 9:14 AM  
**To:** Nease, Rebecca; Wert, Leonard  
**Subject:** RE: 0730 Cmr Briefing

Got it, thanks.

---

**From:** Nease, Rebecca  
**Sent:** Thursday, March 17, 2011 8:55 AM  
**To:** McCree, Victor; Wert, Leonard  
**Subject:** 0730 Cmr Briefing

**Status of Units:**

1, 2, and 3: Status remains the same  
Salt-water injections continue  
Level in reactors is approx ½ ht of fuel  
Containments appear intact; however, there are mixed reports on Units 2 and 3 (he didn't explain)

Unit 4: TEPCO requested recommendations, saying SFP would not hold water; however, has backed off, and now says there is some water.

We see no evidence of water in the SFP. Vapor is rising from other SFPs, but not from U4 SFP.

Unit 4 reactor bldg received worst damage.  
Based on the info we have right now we believe U4 SFP to be dry (Borchardt)  
NRC is very focused on SFPs for Units 3 and 4.  
DO NOT SHARE OUTSIDE OF FED'L FAMILY

5 and 6: Cooling established in SFPs

Dose rates: New info that the dose has increased to 150 mR/hr  
375R/hr at 300' above Unit 3

Japanese: Working on getting electrical power to the site – expect power to 2, 5, and 6 today and to 1, 3, and 4 tomorrow. We have no info on how that will help the situation given the damage to site facilities  
Media reports use of water cannons, but cannot confirm.  
Pumps delivered approx 9 hrs ago. We have no info on how the pumps will be used. Japanese have no plans to send anyone into harm's way.  
Focused on using water cannons, right now.

Obama: Talked with PM Naoto Kan, after which Casto met with the Minister of Defense.  
Ministry of Defense will be more engaged to help.  
NRC has someone embedded with the Ministry of Defense

PMT: Just getting in radiological data from a fly-over and analysis is in progress  
Requested (last night) to develop dose projections in CA. We will work with RES and Sandia to perform this dose calc.  
Apparently DITRA and/or NARAD (sp?) performed a calc which concluded that a child could get 4R in a year (based on drinking milk



from same cow eating contaminated grass and 100% of core release. We are questioning this and have performed a quick calc using historical Chernobyl data and came up with 1-10mR. There are no plans to release this info.

Working to clarify info in NRC press release, in case we get questions. (earlier brfg, someone said that the info might be confusing)

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 7:46 AM  
**To:** 'McCree, Donna (CDC/OID/NCHHSTP)'  
**Subject:** RE: Radiation/Nuclear Experience

K u 2

---

**From:** McCree, Donna (CDC/OID/NCHHSTP) [mailto:zyr1@cdc.gov]  
**Sent:** Thursday, March 17, 2011 7:34 AM  
**To:** McCree, Victor  
**Subject:** FW: Radiation/Nuclear Experience

Hi,

See below, FYI☺. Hope you arrived safely and have a great day.

Donna Hubbard McCree, PhD, MPH, RPh  
Associate Director for Health Equity  
Division of HIV/AIDS Prevention  
National Center for HIV, Viral Hepatitis, STD and TB Prevention  
Centers for Disease Control and Prevention  
1600 Clifton Road NE MS D-21  
Atlanta, Georgia 30333  
Office: 404-639-1834 Fax: 404-639-0897 Email: [zyr1@cdc.gov](mailto:zyr1@cdc.gov)

---

**From:** Mermin, Jonathan (CDC/OID/NCHHSTP)  
**Sent:** Wednesday, March 16, 2011 5:23 PM  
**To:** McCree, Donna (CDC/OID/NCHHSTP)  
**Subject:** FW: Radiation/Nuclear Experience

Donna:

(b)(6)

---

**From:** Navin, Philip (CDC/OPHPR/DEO)  
**Sent:** Wednesday, March 16, 2011 5:22 PM  
**To:** CDC Division Directors  
**Cc:** EOC Report (CDC); Deitchman, Scott (CDC/ONDIEH/NCEH); Chapman, Carl B. (CDC/OPHPR/DEO); Dietz, Sue (CDC/OPHPR/DEO)  
**Subject:** Radiation/Nuclear Experience

Dear Colleagues, with the continued saga in Japan, we anticipate a potential need for additional CDC personnel to work in the CDC EOC Incident Management Structure with radiation/nuclear experience. We are doing a search in CDC Neighborhood, but to insure we don't miss someone that has had prior experience in the military or other jobs, we are asking that you campus your organizations and ask the individuals to send their names and experience to [eocreport@cdc.gov](mailto:eocreport@cdc.gov).

Thanks

Phil

Phil Navin  
Dir. Division of Emerg. Opns, OPHPR  
Centers for Disease Control, Atlanta  
(O) 404 639 3897  
(C) (b)(6)  
CDC EOC 770 488 7100

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 7:18 AM  
**To:** Virgilio, Martin; Leeds, Eric; Dean, Bill; Satorius, Mark; Collins, Elmo  
**Cc:** Howell, Art; Pederson, Cynthia; Lew, David; Wert, Leonard  
**Subject:** FW: Information regarding a device that could assist recovering Spent Fuel Pool cooling and inventory at the Japanese Plants  
**Attachments:** Spent Fuel Pool Spray Nozzle Overview.docx  
**Importance:** High

Marty, et.al.,

See below/attached, for your information.

Vic

---

**From:** Croteau, Rick  
**Sent:** Thursday, March 17, 2011 7:07 AM  
**To:** McCree, Victor; Wert, Leonard  
**Cc:** Jones, William  
**Subject:** FW: Information regarding a device that could assist recovering Spent Fuel Pool cooling and inventory at the Japanese Plants  
**Importance:** High

Vic/Len,

We sent this info to the HOO yesterday. The HOO called Andy Sabisch last night requesting Duke box up the equipment to send to Japan and that is taking place. Duke has spares.

Rick

---

**From:** Bartley, Jonathan  
**Sent:** Wednesday, March 16, 2011 2:28 PM  
**To:** HOO Hoc; OPA Resource  
**Cc:** Sabisch, Andrew; Croteau, Rick; Jones, William  
**Subject:** Information regarding a device that could assist recovering Spent Fuel Pool cooling and inventory at the Japanese Plants  
**Importance:** High

Attached is a document that describes a device that Duke developed as a B.5.b strategy for providing cooling to the spent fuel pools after a catastrophic event. Please contact Andy Sabisch, Oconee SRI, if you have any questions or need a POC at Duke to discuss the device.

---

**From:** Sabisch, Andrew  
**Sent:** Wednesday, March 16, 2011 1:40 PM  
**To:** Bartley, Jonathan  
**Subject:** Information regarding a device that could assist recovering Spent Fuel Pool cooling and inventory

Please review this

=====

**Andrew T. Sabisch**  
U.S. Nuclear Regulatory Commission

Senior Resident Inspector  
Oconee Nuclear Station  
Seneca, SC 29678  
(O) 864-882-6927/6928  
(F) 864-882-0189  
(C) (b)(6)

---

**From:** McCree, Victor  
**Sent:** Thursday, March 17, 2011 7:16 AM  
**To:** Freeman, Scott  
**Subject:** RE: Fwd:

K thanks

---

**From:** Freeman, Scott  
**Sent:** Thursday, March 17, 2011 7:00 AM  
**To:** McCree, Victor  
**Subject:** RE: Fwd:

Yes.

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 4:35 PM  
**To:** Freeman, Scott  
**Subject:** RE: Fwd:

Do you have a current passport?

---

**From:** Freeman, Scott  
**Sent:** Tuesday, March 15, 2011 10:30 AM  
**To:** McCree, Victor  
**Cc:** Ogle, Chuck; Yerokun, Jimi  
**Subject:** RE: Fwd:

As we discussed this morning, I am willing to support the agency's efforts in Japan. My bio is listed below.

My commercial BWR background:

Startup test engineer, instrument engineer, system engineer, and licensing engineer at Grand Gulf. Certified SRO on Grand Gulf and Black Fox (both BWR 6).

Procedure writer at Hatch. Wrote operating, surveillance, and engineering procedures.

Procedure writer and system engineer at Browns Ferry. Wrote operations and surveillance procedures and did pre-op checklists (SPOC) for Unit 2 restart.

Design Basis engineer at Brunswick. Researched and documented the design basis on several systems.

In the NRC:

Participated in restart inspections at Clinton.

Participated in SSDPC at Hatch. This inspection reviewed the plant design for SBO response.

Participated in ORAT for Browns Ferry Unit 1.

---

**From:** McCree, Victor  
**Sent:** Tuesday, March 15, 2011 10:13 AM  
**To:** Freeman, Scott  
**Subject:** RE: Fwd:

Got it, thanks.

---

**From:** Freeman, Scott  
**Sent:** Tuesday, March 15, 2011 10:06 AM  
**To:** McCree, Victor; Ogle, Chuck; Casto, Chuck  
**Subject:** FW: Fwd:

The info below is from the interpreter that supported the vendor inspection last summer. He is passing information from Japanese news sources.

---

**From:** Heisserer, Jamie  
**Sent:** Tuesday, March 15, 2011 8:26 AM  
**To:** Freeman, Scott  
**Subject:** FW: Fwd:

FYI

---

**From:** Jamie Heisserer [mailto: (b)(6)]  
**Sent:** Tuesday, March 15, 2011 8:20 AM  
**To:** Heisserer, Jamie  
**Subject:** Fwd:

----- Forwarded message -----  
**From:** Jamie Heisserer < (b)(6) >  
**Date:** Tue, Mar 15, 2011 at 6:22 AM  
**Subject:**  
**To:** Jamie Heisserer < (b)(6) >

Below from Andy Tabiraki:

"According to what has been reported by Japanese TV, below is the status of Fukushima NPP.

Units 1 and 3: Low reactor water level. some partial fuel damage. Hydrogen generation. Explosion of outside buildings. The containment is still intact. Fire engines are trying to charge sea water to both reactor vessels.

Unit 2: The fire engine ran out of fuel (gasoline or diesel) and stopped pumping sea water. Workers did not realise this. The reactor water level was nearly zero for several hours, caused elevated fuel rod temperatures, possibly partial melting, generated hydrogen, caused an explosion in the containment, and damaged the suppression chamber. The containment is no longer intact and releasing radioactivites continuously. The area monitor is reported to indicate as high as 400 milli Sv. All plant personnel, except 50 fire engine operators, have been evacuated.

Unit 4: Thie unit was not operating when the quake hit. All fuels are in the pool. The spent fuel pool water temperature increaded to 85 degree C. Deu to evaporation, the water level became too low in the pool, exposed the spent fuels, heated, generated hydrogen, and caused an explosion and fire. The fire has been extinguished.

My observation:

Unit 2 is in an uncontrolled situation. The containment has been damaged. Hope fire engines can charge sea water into the cores till the decay heat comes down to a safe level."

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 2:27 PM  
**To:** Croteau, Rick; Gody, Tony  
**Cc:** Jones, William; Munday, Joel; Christensen, Harold; Cobey, Eugene  
**Subject:** FW: \* \* \* STATUS OF KI; Re: REGION II STATES \* \* \*  
**Attachments:** REGION II KI STATUS.docx

See below/attached, for your information and use if/when you or Branch chiefs engage the public regarding KI.

Vic

---

**From:** Trojanowski, Robert  
**Sent:** Wednesday, March 16, 2011 2:22 PM  
**To:** McCree, Victor; Wert, Leonard  
**Cc:** Woodruff, Gena  
**Subject:** \* \* \* STATUS OF KI; Re: REGION II STATES \* \* \*

Vic & Len, per our discussion this morning on Potassium Iodide (KI)-----Bob



## Potassium Iodide (KI)

### Current Status of Region II States

- Federal Government Policy: establishes belief that there is merit to administering KI
- KI: non-prescriptive thyroid (Iodine) blocking agent, generally having no ill health effects
- State option, Federal Policy cannot dictate, or require that States adopt a KI Policy
- States must consider and develop a policy accordingly
- NRC Policy is that KI should be made available at no cost to the States
- Initially, there was concern as to whether FEMA or NRC would fund KI to the States
- NRC agreed to fund the initial stockpile, as well as future replenishment supplies
- NOTE: NRC does not fund KI in liquid form, which is prescribed for children/infants
- U. S. Food and Drug Administration developed technical Guidance on KI administration
- If the States opt to obtain KI from the Federal Government, they need to formalize a Policy, and incorporate it into the FEMA Approved Site Specific Radiological Emergency Response Plan for each NRC licensed fixed nuclear reactor facility. This Policy must address stockpiling, distribution, authority to authorize administration, etc., etc.
- All of the Region II States have opted for receipt of KI from the NRC, with the one exception which is the State of Georgia, and have FEMA approved KI plans incorporated into their Emergency Plans
- With respect to Georgia, Sheltering is not a recognized Protective Action measure; in the event of a significant radiological event in the State (Vogtle, Hatch & Farley), Evacuation would be immediately ordered by the Governor.
- Additional, detailed information with respect to the administration, stockpiling, distribution of KI can be found on GOOGLE
- The following is a brief summary of the status of KI Policy in each of the Region II States. The numbers shown for replenishment are based on current population statistics for the respective 10-Mile EPZs, and are subject to change, up or down

Alabama:

Authorized by the State Health Officer. He has pre-delegated this authority to the Office of Radiation Control in the event of an emergency.

Stored at county health departments (which are State Health Department facilities).

There is no pre-distribution to the public

Tablets stockpiled: 270,000, replenishment scheduled for CY 2014

Florida:

Authorized by county emergency management directors after recommendation from the Bureau of Radiation Control.

Stored at County Health Departments.

There is no pre-distribution to the public

Tablets stockpiled: 1,920,000, scheduled for replenishment in 2014 (620,000) & 2015 (1,300,000)

Georgia:

There is no distribution of KI to the public; sheltering is not an option, Evacuation is the only Protective Action ordered

Kentucky:

There is no distribution of KI to the public since none of the counties are located within the 10-Mile EPZ of an NRC licensed fixed nuclear reactor facility

Mississippi:

Authorized by the Division of Radiological Health.

Stored at County Health Departments.

There is no pre-distribution to the public

Tablets stockpiled: 4,600, scheduled for replenishment in 2013 (5,000) & 2014 (4,100)

North Carolina:

Authorized by the State or County Health Director.

Stored at County Health Departments.

The public is occasionally offered times when KI can be picked up.

Tablets stockpiled: 1,200,000, scheduled for replenishment in 2014

South Carolina:

Authorized by the Department of Health and Environmental Control

Stored at County Health Departments.

The public is occasionally offered times when KI can be picked up.

Tablets stockpiled: 2,400,000, scheduled for replenishment in 2012 (1,300,000)/2013 (1,100,000)

Tennessee:

Authorized by the State Medical Officer

Stored at County Health Departments.

There is no pre-distribution to the public

Tablets stockpiled: 4,700, scheduled for replenishment in 2014 (6,000) & 2015 (441,000)

Virginia:

Authorized by the State Medical Officer

Stored at County Health Departments

There is no pre-distribution to the public

Tablets stockpiles 1,500,000, scheduled for replenishment in 2014

West Virginia:

Authorized by the State Health Officer via the EAS (Emergency Alert System) during the event

Pre-distributed to local citizens within the Ten-Mile EPZ

Tablets stockpiled: 16,000, scheduled for replenishment in 2012

Total tablets currently stockpiled by Region II States: 7,799,000

# # #

March 16, 2011

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**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 2:04 PM  
**To:** 'McCree, Donna (b)(6)'  
**Subject:** NRC on CSPAN 3 Live

See <http://www.c-span.org/Live-Video/C-SPAN3/>

**Victor M. McCree**  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region II  
245 Peachtree Center Ave., NE  
Suite 1200  
Atlanta, GA 30303  
404-997-4411  
[victor.mccree@nrc.gov](mailto:victor.mccree@nrc.gov)

---

**From:** Jones, William  
**Sent:** Wednesday, March 16, 2011 12:50 PM  
**To:** McCree, Victor  
**Subject:** You can place Jones on the assist list as needed

This email is being sent from an NRC mobile device.

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 12:18 PM  
**To:** 'McCree, Donna (CDC/OID/NCHHSTP)'  
**Subject:** RE: NYT - Google management study

Got it, thanks...busy day...dire situation in Japan.

---

**From:** McCree, Donna (CDC/OID/NCHHSTP) [mailto:zyr1@cdc.gov]  
**Sent:** Wednesday, March 16, 2011 12:16 PM  
**To:** McCree, Victor  
**Subject:** FW: NYT - Google management study

Hi,

(b)(6)

Donna Hubbard McCree, PhD, MPH, RPh  
Associate Director for Health Equity  
Division of HIV/AIDS Prevention  
National Center for HIV, Viral Hepatitis, STD and TB Prevention  
Centers for Disease Control and Prevention  
1600 Clifton Road NE MS D-21  
Atlanta, Georgia 30333  
Office: 404-639-1834 Fax: 404-639-0897 Email: [zyr1@cdc.gov](mailto:zyr1@cdc.gov)

---

**From:** Kilmarx, Peter (CDC/OID/NCHHSTP)  
**Sent:** Monday, March 14, 2011 5:14 PM  
**To:** Coker, Laura A. (CDC/OID/NCHHSTP); Cleveland, Janet (CDC/OID/NCHHSTP); Wolitski, Richard (CDC/OID/NCHHSTP); Valleroy, Linda (CDC/OID/NCHHSTP); Cagle, Chris (CDC/OID/NCHHSTP); Dooley, Samuel (CDC/OID/NCHHSTP); Branson, Bernard (CDC/OID/NCHHSTP); Purcell, David (CDC/OID/NCHHSTP); Stratford, Dale (CDC/OID/NCHHSTP); Green, Timothy (CDC/OID/NCHHSTP); Lyon, Wendy (CDC/OID/NCHHSTP); Burgess, Rashad (CDC/OID/NCHHSTP); Hall, Irene (CDC/OID/NCHHSTP); Lansky, Amy (CDC/OID/NCHHSTP); Heffelfinger, James (CDC/OID/NCHHSTP); Hendry, Michael (CDC/OID/NCHHSTP); Mermin, Jonathan (CDC/OID/NCHHSTP); Mangold, Kristen (CDC/OID/NCHHSTP); Koenig, Linda (CDC/OID/NCHHSTP); Leak, L'Tanya (CDC/OID/NCHHSTP); McCree, Donna (CDC/OID/NCHHSTP); Samandari, Taraz (CDC/OID/NCHHSTP); Sukalac, Thomas (CDC/OID/NCHHSTP); Larkin, Theresa (CDC/OID/NCHHSTP); English, Roseanne (CDC/OID/NCHHSTP)  
**Subject:** NYT - Google management study

In case you missed this:

<http://www.nytimes.com/2011/03/13/business/13hire.html?scp=1&sq=google%20managers&st=cse>

## Google's Quest to Build a Better Boss

By [ADAM BRYANT](#)

Published: March 12, 2011

"... technical expertise — the ability, say, to write computer code in your sleep — ranked dead last among Google's big eight. What employees valued most were even-keeled bosses who made time for one-on-one

meetings, who helped people puzzle through problems by asking questions, not dictating answers, and who took an interest in employees' lives and careers.”

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 12:16 PM  
**To:** Meighan, Sean  
**Subject:** RE: INPO SER and Chairman's Q&A as requested  
**Attachments:** image001.jpg

Thanks Sean

---

**From:** Meighan, Sean  
**Sent:** Wednesday, March 16, 2011 11:58 AM  
**To:** Dean, Bill; Lew, David; Wert, Leonard; Casto, Chuck; McCree, Victor; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art  
**Cc:** Leeds, Eric; Grobe, Jack  
**Subject:** INPO SER and Chairman's Q&A as requested  
**Importance:** High

Please find attached the two documents requested.

Very Respectfully

Sean C. Meighan  
Technical Assistant  
Nuclear Reactor Regulation  
Division of Operating Reactor Licensing  
U.S. Nuclear Regulatory Commission  
301-415-1020





Questions and Answers for OPA:

March 15, 2011; 8:50 pm

**1. Can this happen here?**

The events that have occurred in Japan are the result of a combination of highly unlikely natural disasters. These include the fifth largest earthquake in recorded history and the resulting devastating tsunami. It is highly unlikely that a similar event could occur in the United States.

**2. I live near a nuclear power plant similar to the ones having trouble in Japan. How can we now be confident that this plant won't experience a similar problem?**

U.S. nuclear power plants are built to withstand environmental hazards, including earthquakes and tsunamis. Even those plants that are located outside of areas with extensive seismic activity are designed for safety in the event of such a natural disaster. The NRC requires that safety-significant structures, systems, and components be designed to take into account the most severe natural phenomena historically reported for the site and surrounding area. The NRC is confident that the robust design of these plants makes it highly unlikely that a similar event could occur in the United States.

**3. Has this crisis changed your opinion about the safety of U.S. nuclear power plants?**

No. The NRC remains confident that the design of U.S. nuclear power plants ensures the continued protection of public health and safety and the environment.

**4. With all this happening, how can the NRC continue to approve new nuclear power plants?**

It is premature to speculate what, if any, effect the events in Japan will have on the licensing of new nuclear power plants.

**5. What is the NRC doing in response to the situation in Japan?**

The NRC has taken a number of actions:

- a. Since the beginning of the event, the NRC has continuously manned its Operations Center in Rockville, MD in order to gather and examine all available information as part of the effort to analyze the event and understand its implications both for Japan and the United States.
- b. A team of 11 officials from the NRC with expertise in boiling water nuclear reactors have deployed to Japan as part of a U.S. International Agency for International Development (USAID) team.

- c. The NRC has spoken with its counterpart agency in Japan, offering the assistance of U.S. technical experts.
- d. The NRC is coordinating its actions with other Federal agencies as part of the U.S. government response.

**6. What other U.S. agencies are involved, and what are they doing?**

The entire federal family is responding to this event. The NRC is closely coordinating its efforts with the White House, DOE, DOD, USAID, and others. The U.S. government is providing whatever support requested by the Japanese government.

**7. What else can go wrong?**

The NRC is continuously monitoring the developments at the nuclear power plants in Japan. Circumstances are constantly evolving and it would be inappropriate to speculate on how this situation might develop over the coming days.

**8. What is the worst-case scenario?**

In a nuclear emergency, the most important action is to ensure the core is covered with water to provide cooling to remove any heat from the fuel rods. Without adequate cooling, the fuel rods will melt. Should the final containment structure fail, radiation from these melting fuel rods would be released to the atmosphere and additional protective measures may be necessary depending on factors such as prevailing wind patterns.

**9. The United States has troops in Japan and has sent ships to help the relief effort – are they in danger from the radiation?**

The NRC is not the appropriate federal agency to answer this question. DOD is better suited to provide information regarding its personnel.

**10. Is there a danger of radiation making it to the United States?**

In response to nuclear emergencies, the NRC works with other U.S. agencies to monitor radioactive releases and predict their path. The NRC continues to monitor information regarding wind patterns near the Japanese nuclear power plants. Nevertheless, given the thousands of miles between the two countries, Hawaii, Alaska, the U.S. Territories and the U.S. West Coast are not expected to experience any harmful levels of radioactivity.

**11. Is the U.S. government tracking the radiation released from the Japanese plants?**

Yes, a number of U.S. agencies are involved in monitoring and assessing radiation including EPA, DOE, and NRC. The best source of additional information is the Environmental Protection Agency.

**12. Has the government set up radiation monitoring stations to track the release?**

The NRC understands that EPA is utilizing its existing nationwide radiation monitoring system, RadNet, to monitor continuously the nation's air and regularly monitors drinking water, milk and precipitation for environmental radiation. EPA has publicly stated its agreement with the NRC's assessment that we do not expect to see radiation at harmful levels reaching the U.S. from damaged Japanese nuclear power plants. Nevertheless, EPA has stated that it plans to work with its federal partners to deploy additional monitoring capabilities to parts of the western U.S. and U.S. territories.

**13. The radiation "plume" seems to be going out to sea – what is the danger of it reaching Alaska? Hawaii? The west coast?**

See response to Question 10.

**14. I live in the Western United States – should I be taking potassium iodide (KI)?**

At this time, the NRC does not believe that protective measures are necessary in the United States. We do not expect any U.S. states or territories to experience harmful levels of radioactivity. In the unlikely event that circumstances change, U.S. residents should listen to the protective action decisions of their states and counties. These protective action decisions could include actions such as sheltering, evacuation, or taking potassium iodide. The NRC will provide technical assistance to the states should they request it.

**15. Are there other protective measures I should be taking?**

At this time, the NRC does not believe that protective measures are necessary in the United States. We do not expect any U.S. states or territories to experience harmful levels of radioactivity. In the unlikely event that circumstances change, U.S. residents should listen to the protective action decisions of their states and counties. These protective action decisions could include actions such as sheltering, evacuation, or taking potassium iodide. The NRC will provide technical assistance to the states should they request it. United States citizens in Japan are encouraged to follow the protective measures recommended by the Japanese government. These measures appear to be consistent with steps the United States would take.

**16. What are the risks to my children?**

See response to Question 15.

**17. My family has planned a vacation to Hawaii/Alaska/Seattle next week – is it safe to go, or should we cancel our plans?**

The NRC does not expect that residents of the United States or its territories are at any risk of exposure to harmful levels of radiation resulting from the events in Japan. Any changes to travel are a personal decision. The NRC is unaware of any travel restrictions within the United States or its territories.

**18. What are the short-term and long-term effects of exposure to radiation?**

The NRC does not expect that residents of the United States or its territories are at any risk of exposure to harmful levels of radiation resulting from the events in Japan.

On a daily basis, people are exposed to naturally occurring sources of radiation, such as from the sun or medical X-rays. The resulting effects are dependent on the strength and type of radiation as well as the duration of exposure.

**19. I am traveling to Asia (not Japan). Should I adjust my travel plans to avoid flying through plume or being contaminated once on the ground?**

The NRC is not the responsible federal agency to advise U.S. citizens on foreign travel restrictions. That responsibility belongs to the Department of State.

**20. What is the official agency to report radiation numbers and what is the public contact?**

NRC regulations require nuclear power plants to report any radiation doses detected at the plant that could be harmful to the public. This would include doses that are generated by the plant or by an external source. During an event in the U.S., it is the state's responsibility to provide protective action decisions for public health and safety. For this incident, the Japanese are responsible for reporting the public dose; nevertheless, should radiation doses be detected within the U.S., it would still be the state's responsibility to provide protective action decisions for public health and safety.

**21. How many plants are located in seismic areas?**

Although we often think of the US as having "active" and "non-active" earthquake zones, earthquakes can actually happen almost anywhere. Seismologists typically separate the US into low, moderate, and high seismicity zones. The NRC requires that every plant be designed for site-specific ground motions that are appropriate for their location. In

addition, the NRC has specified a minimum ground shaking level to which the plants must be designed.

**22. Where would I get IOSAT Potassium Iodide if my city should experience fallout from the Japanese nuclear disaster? Is this the right precaution or is there anything else that can be done to protect myself?**

We do not expect any U.S. states or territories to experience harmful levels of radioactivity. As such, we do not believe that there is any need for residents of the United States to take potassium iodide. U.S. residents should listen to the protective action decisions by their states and counties. If necessary, protective action decisions could include actions such as sheltering, evacuating, or taking potassium iodide.

Additional information regarding the use of potassium iodide can be found on NRC's webpage at the following link:

<http://www.nrc.gov/about-nrc/emerg-preparedness/about-emerg-preparedness/potassium-iodide-use.html>

Since Potassium Iodide is classified as a drug. Additional information is on the Food and Drug Administration's web site. [www.fda.gov](http://www.fda.gov)

**23. My loved one is overseas, how do I find out if they are ok?**

We are directing public inquiries with regard to concern for loved ones overseas to the State Department, Consular Services at 202-647-7004.

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 10:33 AM  
**To:** OST05 Hoc  
**Subject:** RE: Test

Got it

---

**From:** OST05 Hoc  
**Sent:** Wednesday, March 16, 2011 10:25 AM  
**To:** Collins, Elmo; Dean, Bill; McCree, Victor; Satorius, Mark  
**Subject:** Test

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 9:42 AM  
**To:** Rudisail, Steven; Wert, Leonard  
**Cc:** Munday, Joel  
**Subject:** RE: KI inventory

Ok, got it, thanks.

---

**From:** Rudisail, Steven  
**Sent:** Wednesday, March 16, 2011 9:18 AM  
**To:** Wert, Leonard; McCree, Victor  
**Cc:** Munday, Joel  
**Subject:** KI inventory

Chuck did not take the KI we left in his office. The ET at Headquarters told me to wait for further instructions about possibly shipping the KI to our team in Japan pending the Protective Measures Team determination of the needs of the NRC in Japan.

Steven Rudisail  
Sr. Emergency Response Coordinator  
Plant Support Branch 1  
Division of Reactor Safety, Region II  
U.S. Nuclear Regulatory Commission  
Region II  
Atlanta, GA  
404-997-4512 (office)  
(b)(6) (cell)

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 9:06 AM  
**To:** Ledford, Joey  
**Subject:** RE: MSNBC on Plant Earthquake Risk  
**Attachments:** image001.png

Ok, got it, thanks

---

**From:** Ledford, Joey  
**Sent:** Wednesday, March 16, 2011 9:05 AM  
**To:** McCree, Victor  
**Subject:** MSNBC on Plant Earthquake Risk

Vic: Here is the link to the story we discussed.

(b)(6)

[http://www.msnbc.msn.com/id/42103936/ns/world\\_news-asiapacific/](http://www.msnbc.msn.com/id/42103936/ns/world_news-asiapacific/)

**Joey Ledford**  
**Public Affairs Officer**  
**Region II – Atlanta, Ga.**  
**O: 404.997.4416**

**C:** (b)(6)

[joey.ledford@nrc.gov](mailto:joey.ledford@nrc.gov)





---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 9:01 AM  
**To:** Pelchat, John  
**Subject:** RE: ~~FOR OFFICIAL USE ONLY~~ - 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep - ~~FOR OFFICIAL USE ONLY~~

Thanks John - you're welcome – take care!

Vic

---

**From:** Pelchat, John  
**Sent:** Wednesday, March 16, 2011 8:51 AM  
**To:** McCree, Victor  
**Subject:** RE: ~~FOR OFFICIAL USE ONLY~~ - 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep - ~~FOR OFFICIAL USE ONLY~~

Victor,

Good morning. I chose not to say so during the 8:15 meeting to keep things as short as possible, but I really appreciate that you are sharing this information with the staff. Thank you.

John

"No discovery was ever made  
without a bold guess"

Sir Issac Newton

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 7:04 AM  
**To:** R2MAIL; R2\_RESIDENT SITES  
**Subject:** ~~FOR OFFICIAL USE ONLY~~ - 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep - ~~FOR OFFICIAL USE ONLY~~

~~FOR OFFICIAL USE ONLY~~

Attached, for your information, is the 0630, March 16, 2011, NRC situation report regarding the impacts of the earthquake/tsunami event. For your convenience, I (yellow) highlighted several of the noteworthy status items. As a reminder, this information is considered ~~FOR OFFICIAL USE ONLY~~ and is not to be distributed outside the agency.

Vic

~~FOR OFFICIAL USE ONLY~~

---

**From:** LIA07 Hoc  
**Sent:** Tuesday, March 15, 2011 7:48 AM  
**To:** Al Coons; Appleman Binkert; Bill King; Bill King 2; Charles Burrows; Charles Donnell; Conrad Burnside; Dan Feighert; Darrell Hammons; DOE NIT; DOT; DTRA; dudek; Elmer Naples; EOP; EPA; EPA2; Eric Sinibaldi; Gregory Simonson; Harry Sherwood; HHS; J Szymanski; Jim Kish; Johanna Berkey; John Holdren; K Donald; Karyn Keller; Lisa Hammond; Lukas McMichael; Maceck; Michelle Ralston; Nan Calhoun; Navy; NOC; NOC Duty Director; Nuclear SSA; Peter Lyons; Rebecca Thomson; RMT; Ron McCabe; Seamus O'Boyle; State; Stephen Trautman; Steve Colman; Steve Horwitz; Thomas Conran;

Thomas Zerr; Tim Greten; Vanessa Quinn; William Webb; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bradford, Anna; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Elmo; Dean, Bill; Decker, David; Dorman, Dan; Droggitis, Spiros; Franovich, Mike; Gibbs, Catina; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; HOO Hoc; Howell, Art; Howell, Linda; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Leeds, Eric; Logaras, Herral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Nieh, Ho; NSIR\_DDSP\_ILTAB\_Distribution; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffrey; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Tifft, Doug; Trapp, James; Trojanowski, Robert; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena  
**Cc:** LIA07 Hoc; LIA09 Hoc; LIA11 Hoc  
**Subject:** 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0730 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 15, 2011. This Update includes information on the Fukushima Daiichi Units 2 and 4.

Please note that this information is "~~Official Use Only~~" and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

-Jim

Jim Anderson  
Office of Nuclear Security and Incident Response  
US Nuclear Regulatory Commission  
[james.anderson@nrc.gov](mailto:james.anderson@nrc.gov)  
[LIA07.HOC@nrc.gov](mailto:LIA07.HOC@nrc.gov) (Operations Center)

---

**From:** McCree, Victor  
**Sent:** Wednesday, March 16, 2011 8:07 AM  
**To:** Nease, Rebecca; Wert, Leonard  
**Subject:** RE: no Cmr Brgf at this time

K got it, thanks. Please let me know if/when it is scheduled.

---

**From:** Nease, Rebecca  
**Sent:** Wednesday, March 16, 2011 8:06 AM  
**To:** Wert, Leonard; McCree, Victor  
**Subject:** no Cmr Brgf at this time

We were scheduled for a brfg at 8am. Chairman indicated that he does not want a Cmr brfg at this time.

---

**Posted At:** Tuesday, March 15, 2011 7:08 PM  
**Conversation:** itrezzo EPS Backups: 3/15/2011 19:08  
**Subject:** itrezzo EPS Backups: 3/15/2011 19:08

The following 1 contact(s) were updated with current information:

- Charles Casto (PIN ; Other: )

NOTE: If itrezzo EPS overwrites any important data in your contacts, you can find the original, unchanged contacts attached to this message.

---

**From:** McCree, Victor  
**Sent:** Tuesday, March 15, 2011 11:29 AM  
**To:** Wert, Leonard  
**Subject:** FW: Response to Japan Earthquake/Tsunami

---

**From:** McCree, Victor  
**Sent:** Tuesday, March 15, 2011 10:08 AM  
**To:** R2MAIL; R2RESIDENTS; R2\_RESIDENT SITES  
**Subject:** Response to Japan Earthquake/Tsunami

Good Morning.

I'm sure that all of you are aware of the ongoing events in Japan following last Friday's massive earthquake and tsunami. The loss of life and property due to these catastrophic events is truly devastating, and the U.S., along with a host of other countries are extending support to the Japanese government.

Shortly after the event, the NRC entered the Monitoring Mode and staffed the Headquarters Operations (Ops) Center. Our colleagues in the Ops Center have continued to gather information from media sources and the International Atomic Energy Agency which indicate that the condition of the Unit 1, 2 and 3 reactors at the Fukushima Daiichi nuclear station remains dynamic and represents a continuing safety concern. The Japanese government has implemented protective measures for persons within the emergency planning zone of the Fukushima station, including evacuation, sheltering, and issuance of potassium iodide. The NRC does not expect the U.S. to experience any harmful levels of radioactivity.

On yesterday, the NRC dispatched additional experts to Japan to better understand the status of efforts to safely shut down the damaged reactors at the Fukushima Daiichi site. They will provide technical advice to the U.S. Ambassador in Japan and contribute to the communications among stakeholders (see <http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-048.pdf>). Chuck Casto has been designated to lead the NRC team and will serve as the single point of contact for the U.S. Ambassador on nuclear reactor issues. We wish Chuck and his team the best as they take on this challenging and important assignment. Please note that others in Region II also volunteered to support the response to the events in Japan and they may be asked in the coming weeks and months to supplement and/or replace the current U.S. team members.

The extraordinary events in Japan and their impact on that nation's nuclear infrastructure highlight some of the known risks involved in the technology we regulate. The events have also prompted widespread media and public interest in the safe use of nuclear power in this country. In addition, media commentary on the NRC's role in assuring safety of U.S., plants underscores the vital role that we play in ensuring that nuclear facilities are constructed, maintained, and operated in accordance with the requirements of their design and license. Despite these potential distractions, I echo the Chairman's message today in encouraging you to remain focused on carrying out the NRC mission, as well as Region II's vision.

Once again, I truly appreciate your professional, safety-focused, and high quality work.

Thank you, Vic

---

**From:** McCree, Victor  
**Sent:** Tuesday, March 15, 2011 6:35 AM  
**To:** R2SR MANAGERS  
**Subject:** Fw: 0600 EDT (March 15 2011) USNRC Earthquake/Tsunami SitRep  
**Attachments:** NRC Status Update 3-15.11--0600am.pdf

See attached. Note worsening condition of Fukushima Daiichi Unit 2, and Unit 4 SFP fire.

Vic

This email is being sent from an NRC Blackberry device.

---

**From:** LIA07 Hoc

**To:** (b)(6)

(b)(6)

**Sent:** Tue Mar 15 06:01:58 2011

**Subject:** 0600 EDT (March 15 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a March 15, 2011, 0600 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami. This Update includes information related to NRC's evaluation of radiation measurements from the USS Ronald Reagan.

Please note that this information is "~~Official Use Only~~" and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

-Rebecca

Rebecca Stone  
Office of Nuclear Security & Incident Response  
US Nuclear Regulatory Commission  
[Lia07.HOC@nrc.gov](mailto:Lia07.HOC@nrc.gov) (Operations Center)  
[Rebecca.Stone@nrc.gov](mailto:Rebecca.Stone@nrc.gov)



---

**From:** Frank Miraglia <(b)(6)>  
**Sent:** Monday, March 14, 2011 10:42 PM  
**To:** Casto, Chuck  
**Cc:** McCree, Victor  
**Subject:** Japan Mission

Chuck - Just read you are leading team to Japan to assist. There will be lots of lessons to learn. Best wishes for success. Be safe!

(b)(6)

(b)(6)

Frank

---

**From:** Munday, Joel  
**Sent:** Monday, March 14, 2011 10:00 PM  
**To:** McCree, Victor  
**Subject:** Latest news re. Japan

Just read about another explosion affecting the torus...primary containment, a significant blow. Just wanted you to know that I don't know what the NRC is going to be asked to do in Japan, but as I mentioned this morning I would be willing as well as honored to help. While I do not currently have a passport I am going to get one (b)(6) (b)(6). However, I wasn't planning on expediting the processing due to the expense. Do you think it is a real possibility that I might be asked to go to Japan? If so, I can expedite the process. I am aware there are no guarantees and am ok with that.

Just let me know.

This email is being sent from an NRC Blackberry device.

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**From:** McCree, Victor  
**Sent:** Monday, March 14, 2011 7:57 PM  
**To:** Wert, Leonard; Croteau, Rick  
**Cc:** Jones, William  
**Subject:** Fw: Request from the States

FYI

This email is being sent from an NRC Blackberry device.

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**From:** LIA04 Hoc  
**To:** Flannery, Cindy; Lukes, Kim; Noonan, Amanda; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta; Barker, Allan; Browder, Rachel; Collins, Elmo; Dean, Bill; Erickson, Randy; Heck, Jared; Logaras, Harral; Maier, Bill; McCree, Victor; McNamara, Nancy; Tift, Doug; Trojanowski, Robert; Woodruff, Gena  
**Sent:** Mon Mar 14 18:05:43 2011  
**Subject:** RE: Request from the States

Copied from the LT Director in response to the State Questions -

This email is primarily for Charlie and Rosetta, to close the loop. We discussed the need for providing consistent information to the States, via the RSLO's, with the Executive Team and the Chairman a few minutes ago. The Chairman directed us to coordinate with FEMA since they have an established relationship with the States. We settled on working with OPA to provide the information tailored to our best extent to the questions and concerns that would be expressed by the States, and provide to FEMA for awareness and commonality, and then the RSLO's for sharing.

A broad conference call with all States is not currently being contemplated, we'd like to see how providing a common set of information works first.

Tim McGinty , LT Director

---

**From:** McNamara, Nancy  
**Sent:** Monday, March 14, 2011 4:20 PM  
**To:** LIA04 Hoc  
**Cc:** Tift, Doug  
**Subject:** Request from the States

We had a request from the States that if HQs rejects a question from the States that has been submitted, to please let the RSLOs know so we may tell them versus just letting them hang thinking we are getting them the answer.

---

**Posted At:** Monday, March 14, 2011 7:08 PM  
**Conversation:** itrezzo EPS Backups: 3/14/2011 19:08  
**Subject:** itrezzo EPS Backups: 3/14/2011 19:08

The following 1 contact(s) were updated with current information:

- Charles Casto (PIN  ; Other:  )

NOTE: If itrezzo EPS overwrites any important data in your contacts, you can find the original, unchanged contacts attached to this message.

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**From:** McCree, Victor  
**Sent:** Monday, March 14, 2011 2:10 PM  
**To:** R2SR\_MANAGERS  
**Subject:** FW: 1330 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep  
**Attachments:** USNRC Earthquake-Tsunami Update.031411.1330EDT.docx

FYI.

---

**From:** LIA07 Hoc  
**Sent:** Monday, March 14, 2011 2:07 PM  
**To:** Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffrey; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tiff, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell; (b)(6)  
(b)(6)  
NSIR\_DDSP\_ILTAB\_Distribution; nitops@nnsa.doe.gov; (b)(6); Michelle Ralston; nuclearssa@hq.dhs.gov; Ostendorff, William  
**Cc:** LIA09 Hoc; LIA11 Hoc  
**Subject:** 1330 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 1330 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 14, 2011. This Update includes information on the Japanese request for US Assistance in cooling Fukushima Daiichi Units 1, 2, and 3. Please note that this information is "Official Use Only" and is only being shared within the federal family. Please call the Headquarters Operations Officer at 301-816-5100 with questions.

Yen Chen  
US Nuclear Regulatory Commission  
[LIA07.HOC@nrc.gov](mailto:LIA07.HOC@nrc.gov) (Operations Center)

---

**From:** McCree, Victor  
**Sent:** Monday, March 14, 2011 11:11 AM  
**To:** Fuller, Justin  
**Subject:** RE: Update after 0900 SNC meeting

Ok, got it

---

**From:** Fuller, Justin  
**Sent:** Monday, March 14, 2011 10:43 AM  
**To:** Moorman, James; McCree, Victor; Casto, Chuck; Ayres, David  
**Subject:** Fw: Update after 0900 SNC meeting

Fyi

This email is being sent from an NRC mobile device.

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**From:** Abbott, Coleman  
**To:** Ayres, David; Fuller, Justin  
**Cc:** Mellen, Larry  
**Sent:** Mon Mar 14 10:25:38 2011  
**Subject:** Update after 0900 SNC meeting

Gentlemen,

I have summarized information discussed during SNC Nuclear Development Management meeting--  
Distribute accordingly:

- 1) [redacted] (b)(4)  
[redacted] (b)(4)
- 2) [redacted] (b)(4)
- 3) [redacted] (b)(4)  
[redacted] (b)(4)
- 4) [redacted] (b)(4)  
[redacted] (b)(4)

Hope this helps. If you need additional info let me know.

Have a great day!

**Coleman B. Abbott**

USNRC - Region II  
Resident Inspector (Vogtle Units 3 & 4)

[coleman.abbott@nrc.gov](mailto:coleman.abbott@nrc.gov)

[x2cabbot@southernco.com](mailto:x2cabbot@southernco.com)

Office: 706-437-2542

Cell: (b)(6)

PTT: (b)(6)

Fax: 706-437-1239

Mailing Address

USNRC-Trailer #8: Attn Coleman Abbott

7825 River Road

Waynesboro, GA 30830

~~DISCLAIMER: This message was originally received on the licensee's computer. Therefore, according to the "Computer Access Agreement Between SNC and the NRC", dated 8/20/10, this email and any attachment(s) should be treated as NRC internal use only. Further, in the event a request is received by NRC for any SNC information obtained under the referenced agreement, the NRC has agreed to provide SNC an opportunity to review this information and request withholding from public disclosure any trade secret, confidential, privileged commercial, or financial information (in accordance with NRC regulation 10 CFR 2.390), PRIOR TO ANY PUBLIC RELEASE.~~

**Please Delete This email and any attachment(s) when no longer needed to perform official nrc inspection activities.**

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**From:** McCree, Victor  
**Sent:** Monday, March 14, 2011 7:03 AM  
**To:** R2SR\_MANAGERS  
**Cc:** Musser, Randy  
**Subject:** FW: 0430 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep  
**Attachments:** USNRC Earthquake-Tsunami Update.031411.0430EDT.docx

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**From:** LIA07 Hoc  
**Sent:** Monday, March 14, 2011 4:48 AM  
**To:** LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tift, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell  
**Cc:** LIA09 Hoc; LIA11 Hoc  
**Subject:** RE: 0430 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0430 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 13, 2011. This Update includes information on the status of Fukushima Daiichi, Fukushima Daini, Onagawa, and the US Navy.

Please note that this information is "Official Use Only" and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

-Jim

Jim Anderson  
Office of Nuclear Security and Incident Response  
US Nuclear Regulatory Commission  
[james.anderson@nrc.gov](mailto:james.anderson@nrc.gov)  
[LIA07.HOC@nrc.gov](mailto:LIA07.HOC@nrc.gov) (Operations Center)



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**From:** McCree, Victor  
**Sent:** Monday, March 14, 2011 5:41 AM  
**To:** Sanfilippo, Nathan  
**Cc:** Wert, Leonard  
**Subject:** Re: Coverage this week

Ok, got it, thanks.

Vic

This email is being sent from an NRC Blackberry device.

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

**From:** Sanfilippo, Nathan  
**To:** Williams, Donna; Johnson, Michael; Holahan, Gary; McCree, Victor; Wert, Leonard; Casto, Chuck  
**Cc:** Andersen, James  
**Sent:** Mon Mar 14 00:40:50 2011  
**Subject:** Coverage this week

All,

Just to let you know that I've been involved with our Ops Center coverage and will continue to be as long as we're staffed. If you need anything urgently on Monday (as my shift will end at 7 AM), please contact Jim Andersen. On Tuesday and Wednesday, I'll be working swing shift but can monitor email during the day. As things change, I'll keep you posted.

Thanks!

Sent from my NRC BlackBerry

Nathan Sanfilippo  
Executive Technical Assistant

(b)(6)

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**From:** McCree, Victor  
**Sent:** Sunday, March 13, 2011 8:43 PM  
**To:** R2SR\_MANAGERS  
**Subject:** FW: 2000 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep  
**Attachments:** USNRC Earthquake-Tsunami Update.031311.2000EDT.docx

FYI

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**From:** LIA07 Hoc  
**Sent:** Sunday, March 13, 2011 8:28 PM  
**To:** LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Herral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffrey; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tiff, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena  
**Subject:** RE: 2000 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 2000 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 13, 2011. This Update includes information related to NRC's evaluation of radiation measurements from the USS Ronald Reagan.

Please note that this information is ~~"Official Use Only"~~ and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

-Jim

Jim Anderson  
Office of Nuclear Security and Incident Response  
US Nuclear Regulatory Commission  
[james.anderson@nrc.gov](mailto:james.anderson@nrc.gov)  
[LIA07.HOC@nrc.gov](mailto:LIA07.HOC@nrc.gov) (Operations Center)

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**From:** McCree, Victor  
**Sent:** Sunday, March 13, 2011 7:55 PM  
**To:** R2SR\_MANAGERS  
**Subject:** FW: Qs and As  
**Attachments:** State QA Rev 1.pdf

For your information.

---

**From:** LIA07 Hoc  
**Sent:** Sunday, March 13, 2011 4:04 PM  
**To:** McCree, Victor; Musser, Randy  
**Subject:** Qs and As

Attached per your request are the Qs and As that were developed for the RSLOs.  
-Sara

Sara K. Mroz  
Office of Nuclear Security & Incident Response  
US Nuclear Regulatory Commission  
[Sara.mroz@nrc.gov](mailto:Sara.mroz@nrc.gov)  
[LIA07.HOC@nrc.gov](mailto:LIA07.HOC@nrc.gov) (Operations Center)

**State Q&A's:**

**Q.** What is the radiological consequence of the event in Japan for the U.S.?

**A.** At this time, there is no indication that materials from the incidents in Japan have the potential to have any significant radiological effect on the U.S.

**Q.** Are there any protective measures that residents in the U.S. should be considering?

**A.** No, not given current information.

**Q.** What is the Federal family, i.e., NRC-EPA-DOE, doing to monitor the radiological consequence of the event in Japan on the United States?

**A.** The NRC is coordinating its actions with other Federal agencies as part of the U.S. government response. The NRC is examining all available information as part of the effort to analyze the event and understand its implications both for Japan and the United States.

U.S. nuclear power plants have sensitive equipment to monitor the status of radiological conditions. Additionally, personnel at nuclear power plants have specific knowledge in radiological field monitoring techniques and could assist State and Federal personnel in environmental sampling activities, should that be necessary to evaluate public health and safety concerns.

EPA has permanent stationary radiological monitoring stations on the West coast. In the event of a confirmed radiological release with a potential to impact the U.S., EPA is the Federal agency responsible for radiological monitoring. DOE would be responsible for aerial monitoring, should there be a confirmed radiological release.

**Non-Public Info For States Only:** Questions about any radiological impact on the U.S. West coast is Adora Andy, the Deputy Associate Administrator for EPA's Office of External Affairs: cell is (b)(6) email [andy.adora@epa.gov](mailto:andy.adora@epa.gov)

**Key Messages:**

The NRC is coordinating its actions with other Federal agencies as part of the U.S. government response. The NRC is examining all available information as part of the effort to analyze the event and understand its implications both for Japan and the United States. The NRC's headquarters Operations Center in Rockville, MD has been stood up since the beginning of the emergency in Japan and is operating on a 24-hour basis.

NRC officials in Rockville, MD have spoken with the agency's counterpart in Japan and offered the assistance of U.S. technical experts. Two officials from NRC with expertise in boiling water nuclear reactors have deployed to Japan as part of a U.S. International Agency for International Development (USAID) team. USAID is the federal government agency primarily responsible for providing assistance to countries recovering from disaster administering.

U.S. nuclear power plants are built to withstand environmental hazards, including earthquakes and tsunamis. Even those plants that are located outside of areas with extensive seismic activity are designed for safety in the event of such a natural disaster. The NRC requires that safety-significant structures, systems, and components be designed to take into account the most severe natural phenomena historically estimated for the site and surrounding area.

The NRC will **not** provide information on the status of Japan's nuclear power plants. See NRC's web site at [www.nrc.gov](http://www.nrc.gov) or blog at <http://public-blog.nrc-gateway.gov> for the latest information on NRC actions.

For background information on generic operations at a boiling-water reactor, including an animated graphic, visit the NRC's website at [www.nrc.gov](http://www.nrc.gov)

**Other sources of information:**

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

U.S. Dept. of State -- [www.state.gov](http://www.state.gov)

FEMA -- [www.fema.gov](http://www.fema.gov)

White House -- [www.whitehouse.gov](http://www.whitehouse.gov)

Nuclear Energy Institute -- [www.nei.org](http://www.nei.org)

International Atomic Energy Agency -- [www.iaea.org/press](http://www.iaea.org/press)

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**From:** McCree, Victor  
**Sent:** Sunday, March 13, 2011 7:56 PM  
**To:** R2SR\_MANAGERS  
**Subject:** FW: 1600 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep  
**Attachments:** USNRC Earthquake-Tsunami Update.031311.1600EDT.docx

For your information.

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**From:** LIA07 Hoc  
**Sent:** Sunday, March 13, 2011 3:57 PM  
**To:** Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tiff, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena  
**Subject:** 1600 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 1600 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 13, 2011. This Update includes information related to NRC's evaluation of radiation measurements from the USS Ronald Reagan.

Please note that this information is "Official Use Only" and is only being shared within the federal family.

Please call the Headquarters Operations Officer at 301-816-5100 with questions.

-Sara

Sara K. Mroz  
Communications and Outreach  
Office of Nuclear Security and Incident Response  
US Nuclear Regulatory Commission  
[sara.mroz@nrc.gov](mailto:sara.mroz@nrc.gov)  
[LIA07.HOC@nrc.gov](mailto:LIA07.HOC@nrc.gov) (Operations Center)

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**Posted At:** Saturday, March 12, 2011 7:09 PM  
**Conversation:** itrezzo EPS Backups: 3/12/2011 19:08  
**Subject:** itrezzo EPS Backups: 3/12/2011 19:08

The following 1 contact(s) were updated with current information:

- Jimi Yerokun (Other: (b)(6))

NOTE: If itrezzo EPS overwrites any important data in your contacts, you can find the original, unchanged contacts attached to this message.

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**Posted At:** Friday, March 11, 2011 7:04 PM  
**Conversation:** itrezzo EPS Backups: 3/11/2011 19:04  
**Subject:** itrezzo EPS Backups: 3/11/2011 19:04

The following 1 contact(s) were updated with current information:

- Jennifer Golder (Other (b)(6))

NOTE: If itrezzo EPS overwrites any important data in your contacts, you can find the original, unchanged contacts attached to this message.



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**From:** HOO Hoc  
**Sent:** Friday, March 11, 2011 6:24 PM  
**To:** LIA04 Hoc; LIA02 Hoc; LIA12 Hoc; LIA01 Hoc; LIA11 Hoc; McCree, Victor  
**Subject:** FW: IAEA confirms controlled radiation release  
**Attachments:** Status\_of\_Fukushima\_Daiichi\_NPP\_1830\_03112011[1].pdf

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**From:** NITOPS [mailto:NITOPS@nnsa.doe.gov]  
**Sent:** Friday, March 11, 2011 6:20 PM  
**To:** HOO Hoc; 'narak@llnl.gov'  
**Cc:** NITOPS  
**Subject:** FW: IAEA confirms controlled radiation release

See attached IAEA report on Fukushima status. Also see <http://www.tepco.co.jp/en/press/corp-com/release/11031209-e.html> and other TEPCO press releases <http://www.tepco.co.jp/en/press/corp-com/release/index-e.html>

-Warren Wylupski

---

Warren Wylupski (Contractor)  
Department of Energy/ National Nuclear Security Administration  
NA-42 Office of Emergency Response  
202.287.2344  
[warren.wylupski@nnsa.doe.gov](mailto:warren.wylupski@nnsa.doe.gov)

---

**From:** Bowman, David  
**Sent:** Friday, March 11, 2011 4:56 PM  
**To:** NITOPS  
**Subject:** FW: IAEA confirms controlled radiation release

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**From:** Wilber, Deborah  
**Sent:** Friday, March 11, 2011 4:54 PM  
**To:** Bowman, David; Blumenthal, Daniel; Smith, Christopher L  
**Subject:** Fw: IAEA confirms controlled radiation release

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**From:** DAgostino, Thomas  
**To:** Pavetto, Carl; Wilber, Deborah  
**Sent:** Fri Mar 11 16:43:02 2011  
**Subject:** FW: IAEA confirms controlled radiation release

Thomas P. D'Agostino  
Administrator  
National Nuclear Security Administration  
202-586-5555

---

**From:** Connery, Joyce  
**Sent:** Friday, March 11, 2011 3:47 PM  
**To:** SCHU; Poneman, Daniel; OConnor, Rod; Hurlbut, Brandon; Owens, Missy  
**Cc:** Lyons, Peter; Aoki, Steven; DAgostino, Thomas; Miller, Neile; Mustin, Tracy  
**Subject:** IAEA confirms controlled radiation release

IAEA is now confirming the release—see attached.

---

**From:** Gallagher, Shawn P.  
**Sent:** Friday, March 11, 2011 3:37 PM  
**To:** #Earthquake  
**Subject:** IAEA confirms controlled radiation release

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**From:** Gallagher, Shawn P.  
**Sent:** Friday, March 11, 2011 3:23 PM  
**To:** #Earthquake  
**Subject:** NRC believes the Japanese have made the decision to release steam containing radioactive material

All—

Just off a call with NRC. Japanese contacts here who are talking to the reactor operators in Japan just told NRC that the Japanese situation at the nuclear power plant has reached a point where they are forced to relieve pressure by releasing steam that contains radioactive material.

We have not independently confirmed that the Japanese have taken this action.

This release almost certainly will not result in a lethal dose of radiation. However, the Japanese did the right thing by evacuating the surrounding area earlier today.

There will be several more decision points in coming hours where they may need to again relieve pressure.

NRC believes that the Fukushima 1 and 2 plants are currently either in 'station blackout' (i.e. no internal or external power) or near that point. Without additional power soon to re-circulate cooling water, they will need to make similar decisions to release more steam.

We are not acknowledging that we know this to the press.

Shawn

Shawn Gallagher

Director for Nuclear Threat Reduction and Nuclear Energy Cooperation  
Office of the WMD Coordinator  
National Security Council

(b)(6)



## INCIDENT AND EMERGENCY CENTRE

**Subject: Status of the Fukushima Daiichi nuclear power plant**

The Incident and Emergency Centre (IEC) is continuing to monitor the status of the nuclear power plants in Japan following the earthquake earlier today. At 18:30 UTC on March 11, 2011 the IEC spoke to its counterparts in Japan the Nuclear and Industrial Safety Agency (NISA) and Ministry of Education, Culture, Sports, Science and Technology (MEXT).

NISA and MEXT confirmed the following information about the three reactor units at the Fukushima Daiichi nuclear power plant:

### Unit 1

The reactor is being maintained shutdown. However there is no information regarding the status of the supply of power to Unit 1. The reactor water level is reported to be oscillating. At 15:30 UTC the reactor water was approximately 130 cm above the top of the core. Containment is intact in Unit 1, however due to an increase of pressure within containment the decision has been made to perform a limited controlled venting to avoid over pressurization of the containment.

### Unit 2

The reactor is being maintained shutdown. There is currently no supply of power to Unit 2. Work is currently being undertaken to restore power. At 15:30 UTC the reactor water level is reported to be at approximately 350 cm above the top of the core. Containment is intact in Unit 2.

### Unit 3

The reactor is being maintained shutdown. Power is being supplied to Unit 3. At 13:00 UTC the reactor water level is reported to be at approximately 450 cm above the top of the core. Containment is intact in Unit 3.

A mobile power generator has arrived at the site of the Fukushima Daiichi nuclear power plant.

Florian Baciú  
Emergency Response Manager  
11-March-2011 19:45 UTC

IAEA Incident and Emergency Centre

CJ 1694 of 1949

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**To:** ju  
**Subject:** FW: Status of NRC Testimony for Upcoming Hearing on March 16

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**From:** Dyer, Jim  
**Sent:** Friday, March 11, 2011 7:48 AM  
**To:** McCree, Victor  
**Subject:** FW: Status of NRC Testimony for Upcoming Hearing on March 16

Vic, looks like your time was a good investment with Christine. Now we need to harvest the results and get the space.  
Jim

---

**From:** McDonald, Christine [mailto:Christine\_A.\_McDonald@omb.eop.gov]  
**Sent:** Thursday, March 10, 2011 7:06 PM  
**To:** Golder, Jennifer  
**Cc:** Dyer, Jim; Brown, Milton  
**Subject:** RE: Status of NRC Testimony for Upcoming Hearing on March 16

It was good to finally meet you in person as well. I'm glad we were able to meet with Vic – hopefully we can resolve the issue and set out a process for the future.

The sooner you can send the testimony, the better. Thanks for the heads up.

CMcD

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**Christine McDonald**  
Office of Management and Budget, Energy Branch  
(202) 395-6944

---

**From:** Golder, Jennifer [mailto:Jennifer.Golder@nrc.gov]  
**Sent:** Thursday, March 10, 2011 2:01 PM  
**To:** McDonald, Christine  
**Cc:** Dyer, Jim; Brown, Milton  
**Subject:** RE: Status of NRC Testimony for Upcoming Hearing on March 16

Hi Christine,

OCA just alerted me that the testimony is due to the Hill – COB Monday. We will get it to you as quickly as we can and of course we will need it back in time to get it sent over.

Thanks again!

*Jennifer Golder*

Budget Director  
Office of the Chief Financial Officer  
United States Nuclear Regulatory Commission

(301) 415-7540

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**From:** Golder, Jennifer  
**Sent:** Thursday, March 10, 2011 1:58 PM  
**To:** 'McDonald, Christine'  
**Cc:** Dyer, Jim; Brown, Milton  
**Subject:** Status of NRC Testimony for Upcoming Hearing on March 16

Hi Christine,

It was so nice to meet you in person today. Thanks for taking time to talk with Jim, Victor and I. I wanted to let you know that the Commission is reviewing the Chairman's testimony for his upcoming Congressional hearing occurring on March 16<sup>th</sup>. Office of Congressional Affairs is awaiting input from two of the Commission offices. The Comments are due back tomorrow so I am hoping we can get it sent over to you tomorrow afternoon or Monday at the latest.

Thanks

*Jennifer Golder*

Budget Director  
Office of the Chief Financial Officer  
United States Nuclear Regulatory Commission  
(301) 415-7540

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**From:** McCree, Victor  
**Sent:** Friday, March 11, 2011 6:07 PM  
**To:** Wert, Leonard  
**Subject:** Re: Verified with CCI that R2 has no employees working in Japan

K got it

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

**From:** Leonard Wert  
**To:** Victor McCree  
**Subject:** Verified with CCI that R2 has no employees working in Japan  
**Sent:** Mar 11, 2011 7:46 AM

This email is being sent from an NRC Blackberry device.

**From:** [Anderson, Brian](#)  
**To:** [Harrington, Holly](#)  
**Subject:** RE: We do have a job for you!  
**Date:** Monday, March 21, 2011 2:37:00 PM

---

Got it. I'm somewhat familiar with B5b, so I'll start working this immediately.

1. Any problem if I reach out to some contacts I have in NSIR, or should I stick with working only through RST staff?
2. Do I have a deadline for this? An hour ago, right?

---

**From:** Harrington, Holly  
**Sent:** Monday, March 21, 2011 2:31 PM  
**To:** Anderson, Brian  
**Subject:** We do have a job for you!

(b)(5)

Holly



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**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:15 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: Update from DHS/FEMA  
**Attachments:** Region.docx

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

~~\*\*\*\*\*FOR OFFICIAL USE ONLY\*\*\*\*\*~~

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---

**From:** Sheffield, Bonnie [mailto:Bonnie.Sheffield@dhs.gov]  
**Sent:** Wednesday, March 16, 2011 2:49 PM  
**To:** LIA05 Hoc  
**Subject:** RE: Update from DHS/FEMA

Per your request.

*Very Respectfully*

*Bonnie Sheffield*

Program Specialist (Emergency Management)  
Policy and Regulations Unit  
U.S. Department of Homeland Security/FEMA  
Technological Hazard Division  
Radiological Emergency Preparedness Program  
1800 S. Bell Street  
Arlington VA.20598-3025  
202 212 2120 office  
(b)(6) blackberry  
703 305 0837 fax

---

**From:** prvs=04990403f=LIA05.Hoc@nrc.gov [mailto:prvs=04990403f=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc  
**Sent:** Wednesday, March 16, 2011 2:43 PM  
**To:** Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn  
**Cc:** Sheffield, Bonnie  
**Subject:** Update from DHS/FEMA

Is there anything significant to pass on from DHS and/or FEMA?

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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### Regional RAC Chair information

Region	RAC Chair	Email	Phone
1	Steve Colman	Steve.Colman@dhs.gov	417-832-4731-O
2	Rebecca Thomson	Rebecca.Thomson@dhs.gov	212-680-8509-O (b)(6) -C
3	Darrell Hammonds	Darrell.Hammonds@dhs.gov	215-931-5546-O (b)(6) -C
4	Conrad Burnside	Conrad.Burnside@dhs.gov	770-220-5486-O (b)(6) -C
5	William King	William.King@dhs.gov	312-408-5575-O (b)(6) -C
6	Lisa Hammond	Lisa.Hammond@dhs.gov	940-898-5199-O (b)(6) -C
7	Ronald McCabe	Ronald.McCabe@dhs.gov	816-283-7007-O (b)(6) -C
8	Dan Feighert	Dan.Feighert@dhs.gov	303-235-4737-O (b)(6) -C
9	Craig Fiore	Craig.Fiore@dhs.gov	510.627.7252-O (b)(6) -C
10	Bill Webb	Bill.Webb@dhs.gov	425-427-2175-O

---

**From:** Turtill, Richard  
**Sent:** Monday, March 21, 2011 6:44 PM  
**To:** McGrady-Finneran, Patricia; LIA04 Hoc; OST05 Hoc  
**Cc:** Rivera, Alison  
**Subject:** RE: Federal Radiological Preparedness Coordinating Committee (FRPCC)  
**Attachments:** FRPCC Meeting Minutes 17Mar2011.docx

Patricia:

Per the attached, on 3/17, "the Federal Radiological Preparedness Coordinating Committee (RPCC) convened a short-notice meeting to discuss responses to the Japanese nuclear power plant emergency, and information coordination among Federal agencies about actions being taken here in the United States. Each Federal agency was asked to describe its current efforts, capabilities offered, and information needs."

I am not certain who at NRC spoke to this group, but on page 4, the following bullet was communicated:

- o **CRCPD would like an alert when NRC is putting out press releases. A disconnect exists between the State Liaison Officers and State officials.**

I'm not quite certain to whom or what to communicate. Any thoughts? My response/thinking:

RCPDs and SLOs and other state officials automatically receive NRC Press Releases. Anyone, including State agency personnel and all members of the public, wishing to automatically receive NRC press releases can receive them by signing up at the following NRC link: [www.nrc.gov/xxx/yyy/zzz](http://www.nrc.gov/xxx/yyy/zzz), etc.

What do you think? Do I have this right? (...and then I have to determine to whom this should go... maybe our federal liaison in the Operations Center.)

Rich

---

**From:** Rivera, Alison  
**Sent:** Monday, March 21, 2011 12:44 PM  
**To:** Turtill, Richard  
**Subject:** FW: Federal Radiological Preparedness Coordinating Committee (FRPCC)

(b)(5)

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**From:** OST05 Hoc  
**Sent:** Monday, March 21, 2011 10:13 AM  
**To:** Piccone, Josephine; Jackson, Deborah; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Easson, Stuart; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta  
**Subject:** FW: Federal Radiological Preparedness Coordinating Committee (FRPCC)

Forwarding meeting minutes from the Federal Radiological Preparedness Coordinating Committee (FRPCC) meeting.

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Thanks,  
Cindy Flannery  
State Liaison – Liaison Team  
NRC Incident Response Center

# Federal Radiological Preparedness Coordinating Committee (FRPCC)

## Meeting Minutes –

March 17, 2011 | 2:00 p.m. to 3:30 p.m.

The FRPCC convened a short-notice meeting to discuss responses to the Japanese nuclear power plant emergency, and information coordination among Federal agencies about actions being taken here in the United States. Each Federal agency was asked to describe its current efforts, capabilities offered, and information needs.

### FEMA Technological Hazards Division (FEMA Radiological Emergency Preparedness Program):

- **Current Activities**
  - Started coordinating with FEMA Region IX and X (due to tsunami warnings).
  - Maintained liaisons: National Response Coordination Center (NRCC), Nuclear Regulatory Commission (NRC), US Agency for International Development (USAID), Incident Management Assistance Team (IMAT), ESF-5, ESF-15.
  - Answering information requests specific to offsite response organizations (ORO). planning/procedures – staying within domestic scope (issues + current activities).
  - Furnishing background information to regional offices.
  - Other issues forwarded to appropriate places as possible.
  - Radiological Emergency Preparedness Program (REPP) Exercises remain on-schedule.
  - Currently maintaining watch capability 24/7 to respond to intergovernmental informational requests.
- **Capable of providing**
  - Coordination through FRPCC.

### Department of State:

- **Current Activities**
  - Responsibility is to receive information that comes under the agreement for notification in an accident – Japan forwards regular information to International Atomic Energy Agency (IAEA), which State receives and can distribute (fine to distribute).
  - Convention on provision of assistance – country can request (through IAEA) assistance, and IAEA distributes.
  - State has received a request for assistance including some drones (for air monitoring) and robot/non-manned equipment capable of use at the sight.
  - State has distributed the request – not required to assist, but required to respond/provide conditions. There is a 24/7 task force that's stood up and is busy.
- **What's needed**

- Support from DOD and other Federal agencies on distributed request.
  - EPA indicated it may have a robot (checking into that). DOE has air monitoring assets in Japan, they're being used (helicopter, plane) – there are people there who can speak for that.
- Inquired whether NRC could produce something capable of distribution to the public
  - (b)(5)
  - Seconded by DHS Infrastructure Protection (IP)

- **Capable of providing**

- **Action Items:**

- (b)(5)

**DOE:**

- **Current Activities**

- DOE has one person deployed to USAID.
- Rotary plane is going to fly again at 2000 EDT.
- The Nuclear Incident Response Team (NIRT) is standing up up.
- DOE is developing situational reports two times a day.
- Interagency Modeling and Atmospheric Assessment Center (IMAAC) Activation
  - The DOE National Atmospheric Release Advisory Center (NARAC) has done modeling, but it was based on hypothetical assumptions. After the flights (which were recently completed), DOE will crunch the data and have product based on that.
  - NARAC/IMAAC; interface with NRC and others is taking place.
  - DOE is not currently doing a federal model based on everyone's data.
  - IMAAC was stood down; all products are coming from NARAC.
  - DOD is using its own Hazard Prediction and Assessment Capability (HPAC) plots, which DOE is providing to our DOD components in Japan. Defense Threat Reduction Agency (DTRA) is trying to help as well. (b)(5)
  - (b)(5)
  - (b)(5)
  - DOE indicated that different plots are being used, and they are incomparable.

- **What's needed**

- DOE has no unmet needs.

- **Capable of providing**

**USDA:**

- **Current Activities**

- Standing up IMAT group.
- Staff member on the Japan Interagency Policy Committee at the White House.

- Assembling talking points for the Secretary.
- Coordinating with Advisory Team informally. It is not activated.
- (b)(5)
- **What's needed**
  - The States are looking for information on food, agriculture, and milk.
- **Capable of providing**
  - Monitoring assets.

**CDC:**

- **Current Activities**
  - The Advisory Team for Environment, Food, and Health (an interagency body identified in the Nuclear/Radiological Incident Annex that coordinates advice and recommendations on environmental, food, public health and animal health issues during radiological incidents) was not requested to activate, but meeting informally.
    - Daily teleconference.
  - CDC is developing guidelines for cargo and personnel for Customs and Border Patrol (CBP). Guidelines are going through the CDC clearance process.
- **What's needed**
- **Capable of providing**
- **Action Items**
  - Provide guidelines to FRPCC (send to Rick Collins at Rick.Collins@fema.gov).
  - CDC had protocols for CBP (contact (b)(6)).

**FEMA IMAT-East:**

- **Current Activities**
  - FEMA has activated one IMAT, which has been given management oversight on this incident.
  - FEMA IMAT-East is supporting EPA to get portable monitors.
  - There are two Urban Search and Rescue (USAR) Teams on the ground in Japan.
  - Looking at contingency planning based on possible scenarios that might come out of this incident.
- **What's needed**
- **Capable of providing**
  - FEMA IMAT-East is positioned to give info to USAID concerning commodities and planning.
  - Supporting those agencies that are operational at this point in time.

**NRC:**

- **Current Activities**
  - NRC has been monitoring the situation in its Emergency Operations Center (EOC) (executive team, liaison team [Federal/State/International] FEMA REPP representation,



Public Affairs team, Nuclear Navy representation, DOE, protective measures team), which is fully staffed.

- All data is from numerous sources, and working with NARAC.
  - We are sending out status updates every 12 hours to Federal Agencies/Departments.
  - Continuing to monitor 24/7.
  - Constant contact with staff at Tokyo embassy (11 personnel).
  - Staff at USAID (deal with Department of State through them).
  - Getting info from TEPCO (Tokyo Electric Power Co.) in Japan, trying to get data and verify sources.
  - There will be a Commissioner briefing on the Japanese events on 3/21. Check NRC website for time.
- **What's needed**
    - DOE intends to provide NRC several plume models and data.
    - Relevant data from other FRPCC member agencies.
  - **Capable of providing**
    - NRC issues press releases.
      - Press releases are accessible on NRC website and are freely distributable to the public.
  - **Action Items**
    - Federal Agency personnel can email [lia11.hoc@nrc.gov](mailto:lia11.hoc@nrc.gov) and cc: [lia01.hoc@nrc.gov](mailto:lia01.hoc@nrc.gov) to receive status update messages.
    - DOE: has some real data and will deliver to NRC as soon as analyzed.
    - Any data other agencies have for inclusion in NRC sit reps.
    - (b)(5)
    - Prescribed messages for guidance to the States on communications with the public.
      - **Related:** CRCPD indicated that States are looking for a consistent message. CRCPD is working with CDC and State and Tribal Health Associations (STHA), State Epidemiologists. CDC is working Frequently Asked Questions (FAQs), some States on the Pacific Coast are putting out their own information. CRCPD is also working on appropriate screening in airports.
      - CRCPD indicated State issues include receiving information from federal agencies, especially in a timely manner.
    - CRCPD would like an alert when NRC is putting out press releases. 

(b)(5)

(b)(5)
    - Provide rationale behind evacuating US citizens in Japan within 50-miles of plant.

**FBI:**

- **Current Activities**
  - Maintaining situational awareness.
- **What's needed**

- Capable of providing

**DOD:**

- **Current Activities**

- Providing assets through U.S. 7th Fleet, US Forces Japan, *et al.*
- Providing humanitarian assistance and disaster relief.
- Providing radiological assistance with DOD air sampling capabilities.
- DTRA is providing information to DOE and NRC on plume models.
- DOD is flying aircrafts.
- DOD is not doing any samples for Guam and Pacific territories.
- DOD has been asked about use of robotic assets.

- (b)(5)

- Maintaining situational awareness.
- DOE is providing to DTRA some plume analysis.

- **What's needed**

- **Capable of providing**

- Air sampling.

- **Action Items**

- (b)(5)

**EPA:**

- **Current Activities**

- Developing public website for people to access RadNet data without needing password.
- EPA is monitoring US West Coast.

- **What's needed**

- EPA would like to see any modeling results from other Agencies/Departments.

- **Capable of providing**

- EPA provides additional information at [EPA.gov/radiation](http://EPA.gov/radiation).

- **Action Items**

- EPA will send the link of the RadNet website to FRPCC (send to Rick Collins at [Rick.Collins@fema.gov](mailto:Rick.Collins@fema.gov)).

**FDA:**

- **Current Activities**

- FDA is working on food guidelines.
- FDA activated its EOC on March 11.
- Engaged with Advisory Team and FRMAC.
- Responding to inquiries on potassium iodide (KI), food, and imports/exports.
  - Addressing through public affairs.

- Regarding KI: CDC Strategic National Stockpile has only liquid formulation of KI. All tablets distributed to States through NRC.
  - Providing messaging on food, based on requests from Domestic Readiness Group (DRG) and HHS. These are circulating amongst federal agencies, but not publicly.
  - Has responded to request from USAID for assessment of personnel with rad/nuc expertise who may be able to respond, if needed.
  - FDA has activated Food Emergency Response Network (FERN).
    - FDA is not doing sampling yet, but developing protocols.
    - Labs activated.
  - Working with USDA and NOAA on common interests.
- **What's needed**
  - Send email/forwards about food to both FDA and USDA and cc: HHS (Contacts; CDR Michael Noska at [Michael.noska@fda.gov](mailto:Michael.noska@fda.gov); Gordon Cleveland at [Gordon.s.cleveland@aphis.usda.gov](mailto:Gordon.s.cleveland@aphis.usda.gov); George Alexander, MD at [George.alexander@hhs.gov](mailto:George.alexander@hhs.gov)).
  - Send FRPCC an email to who you want the request for personnel with rad/nuc expertise information to go to (send to Rick Collins at [Rick.Collins@fema.gov](mailto:Rick.Collins@fema.gov)).
  - Public Health Service Related: Identify environmental health officers to deploy (nationally/internationally) to provide monitoring assistance. Have about 30-40 environmental health officers. No formal request yet.
    - Regarding deployment of environmental health officers: Veterans Affairs Medical Emergency Radiological Response Team (MERRT) could help supply instrumentation assets.
- **Capable of providing**
  - Messaging on food.
  - Food sampling.
- **Action Items**
  - **Send FRPCC the content of the Public Health Service request (send to Rick Collins at [Rick.Collins@fema.gov](mailto:Rick.Collins@fema.gov)).**

## NOAA

- **Current Activities**
  - Conducting Hybrid Single Particle Lagrangian Integrated Trajectory (HYSPLIT) plume model runs at the request of the IAEA as part of ongoing agreement as one of the Regional Specialized Meteorological Centers. These runs are produced by the National Weather Service (NWS) upon request to the Senior Duty Meteorologist (SDM). The SDM has also produced additional runs for internal use or upon request from DOE. The NOAA Air Resources Laboratory (source of the HYSPLIT model) has also performed some experimental runs. These runs have not been made public. As with DOE, NOAA does not have a good source term but are very much in need of one.
  - (b)(5)
  - NOAA/NWS has been in touch with FAA on setting criteria for the issuance of radiation Significant Meteorological Information (SIGMETS).

- A prescriptive message to the general public (probably whatever is set up for the States to disseminate) would be very helpful. NOAA is receiving requests from the general public and would like to be responsive.
- NOAA National Marine Fisheries Service has been considering effects on food safety and is in touch with FDA.

**Miscellaneous**

- DOT:
  - FedEx and UPS are concerned about flying into Japan, and are trying to figure out what the dose rates are from the DOD website.
  - There was a no-fly zone established.
  - (b)(5)

If you would like to add information into the minutes, send FRPCC an email (send to Rick Collins at Rick.Collins@fema.gov).

The next FRPCC meeting is scheduled for Tuesday, March 22. FEMA THD will distribute the time and call information through the FRPCC distribution list.

**From:** Shapiro, Nicholas S.  
**To:** Racusen, Rachel; Leistikow, Dan; Brenner, Eliot; Whithorne, Bobby; Stevens, Clark; andy.adora@epa.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov; Harrington, Holly; Colburn, Brent  
**Cc:** Bradley.carroll@dhs.gov  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident  
**Date:** Monday, March 21, 2011 2:43:09 PM

(b)(5)

**From:** Racusen, Rachel [mailto:Rachel.Racusen@dhs.gov]  
**Sent:** Monday, March 21, 2011 2:39 PM  
**To:** Racusen, Rachel; Leistikow, Dan; eliot.brenner@nrc.gov; Shapiro, Nicholas S.; Whithorne, Bobby; Stevens, Clark; andy.adora@epa.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov; Holly.Harrington@nrc.gov; Colburn, Brent  
**Cc:** Bradley.carroll@dhs.gov  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

Adding Brent. Here is our proposed background for the reporter, and background from the NRC (added under the section that says response), as well as some suggested edits to your quote Nick.

(b)(5)

Let us know if you all are good with this. And if anyone else has background they want to send me – please do so by 3 pm.

**Suggested edits to quote:**

(b)(5)

**SUGGESTED BACKGROUND:**

(b)(5)

(b)(5)

(b)(5)

(b)(5)

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**From:** Racusen, Rachel [mailto:Rachel.Racusen@dhs.gov]  
**Sent:** Monday, March 21, 2011 11:52 AM  
**To:** Leistikow, Dan; eliot.brenner@nrc.gov; (b)(6); Racusen, Rachel; Whithorne, Bobby; (b)(6); andy.adora@epa.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov; Holly.Harrington@nrc.gov  
**Cc:** Bradley.carroll@dhs.gov  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

Just spoke to the reporter to get a little more info. He is mostly interested in the evacuations piece of this, from both a planning and response perspective. His main question is "if the NRC or the federal government were to issue a 50 mile radius evacuation order because of an incident at a plant, how would it be carried out? What would logistics look like?"

(b)(5)

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**From:** Leistikow, Dan [mailto:Dan.Leistikow@hq.doe.gov]  
**Sent:** Monday, March 21, 2011 11:15 AM  
**To:** 'eliot.brenner@nrc.gov'; (b)(6); 'Rachel.Racusen@dhs.gov'; Whithorne, Bobby; (b)(6); 'andy.adora@epa.gov'; Mueller, Stephanie; 'gilfillan.brendan@epa.gov'; 'Holly.Harrington@nrc.gov'  
**Cc:** 'Bradley.carroll@dhs.gov'  
**Subject:** Re: WSJ story on how US would respond to domestic radiological incident

Happy to help however we can, (b)(5)



(b)(5)

---

**From:** Brenner, Eliot <Eliot.Brenner@nrc.gov>  
**To:** Shapiro, Nicholas S. <(b)(6)>; Racusen, Rachel <Rachel.Racusen@dhs.gov>; Whithorne, Bobby <Bobby.Whithorne@dhs.gov>; Stevens, Clark <(b)(6)>; andy.adora@epa.gov <andy.adora@epa.gov>; Leistikow, Dan; Mueller, Stephanie; gilfillan.brendan@epa.gov <gilfillan.brendan@epa.gov>; Harrington, Holly <Holly.Harrington@nrc.gov>  
**Cc:** Carroll, Bradley <Bradley.Carroll@dhs.gov>  
**Sent:** Mon Mar 21 11:05:02 2011  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

Holly Harrington (email address included above) is point for NRC on this.

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**From:** Shapiro, Nicholas S. [mailto:(b)(6)]  
**Sent:** Monday, March 21, 2011 11:01 AM  
**To:** Racusen, Rachel; Whithorne, Bobby; Stevens, Clark; andy.adora@epa.gov; Dan.Leistikow@hq.doe.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov; Brenner, Eliot  
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The Wall Street Journal  
Desk: (713) 547-9229  
Mobile: (b)(6)  
[daniel.gilbert@wsj.com](mailto:daniel.gilbert@wsj.com)  
**Deadline: 2 or 3 p.m. today**

\*\*\*

Rachel Racusen  
Director of Public Affairs  
Federal Emergency Management Agency  
202-646-3272 (24 Hour News Desk)  
202-212-1656 (Direct)  
(b)(6) (Blackberry)

**From:** Brenner, Eliot  
**To:** Harrington, Holly  
**Subject:** Re: Please review immediately.  
**Date:** Monday, March 21, 2011 3:20:04 PM

---

Looks good. (b)(5)

Eliot Brenner  
Director, Office of Public Affairs  
US Nuclear Regulatory Commission  
Protecting People and the Environment  
301 415 8200

C: (b)(6)

Sent from my Blackberry

---

**From:** Harrington, Holly  
**To:** Brenner, Eliot  
**Sent:** Mon Mar 21 15:14:37 2011  
**Subject:** Please review immediately.

(b)(5)

**Suggested edits to quote:**

(b)(5)

**SUGGESTED BACKGROUND:**

(b)(5)

(b)(5)

(b)(5)

(b)(5)

**From:** Racusen, Rachel  
**To:** Harrington, Holly  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident  
**Date:** Monday, March 21, 2011 3:29:24 PM

---

(b)(5)

**From:** prvs=054326b82=Holly.Harrington@nrc.gov [mailto:prvs=054326b82=Holly.Harrington@nrc.gov]  
**On Behalf Of** Harrington, Holly  
**Sent:** Monday, March 21, 2011 3:09 PM  
**To:** Racusen, Rachel  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

(b)(5)

**From:** Racusen, Rachel [mailto:Rachel.Racusen@dhs.gov]  
**Sent:** Monday, March 21, 2011 2:39 PM  
**To:** Racusen, Rachel; Leistikow, Dan; Brenner, Eliot; (b)(6) Whithorne, Bobby; (b)(6) andy.adora@epa.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov; Harrington, Holly; Colburn, Brent  
**Cc:** Bradley.carroll@dhs.gov  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

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(b)(5)

Let us know if you all are good with this. And if anyone else has background they want to send me – please do so by 3 pm.

**Suggested edits to quote:**

(b)(5)

(b)(5)

**SUGGESTED BACKGROUND:**

(b)(5)



(b)(5)

(b)(5)

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**Cc:** Bradley.carroll@dhs.gov

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(b)(5)

(b)(5)

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**To:** 'eliot.brenner@nrc.gov'; [redacted] (b)(6) 'Rachel.Racusen@dhs.gov'; Whithorne, Bobby; [redacted] (b)(6); 'andy.adora@epa.gov'; Mueller, Stephanie; 'gilfillan.brendan@epa.gov'; 'Holly.Harrington@nrc.gov'  
**Cc:** 'Bradley.carroll@dhs.gov'  
**Subject:** Re: WSJ story on how US would respond to domestic radiological incident

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(b)(5)

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**Sent:** Mon Mar 21 11:05:02 2011  
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**Cc:** Carroll, Bradley  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

FEMA, can you please coordinate a USG wide approach/response to this story? should also include NRC, added here.

Should include relevant info from DOE/EPA/NRC/DHS and FEMA. I can send him this comment from me starting us off

(b)(5)

(b)(5)

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Rachel Racusen  
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202-646-3272 (24 Hour News Desk)  
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(b)(6) (Blackberry)

**From:** [Harrington, Holly](#)  
**To:** [Brenner, Eliot](#)  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident  
**Date:** Monday, March 21, 2011 3:14:00 PM

---

(b)(5)

---

**From:** Brenner, Eliot  
**Sent:** Monday, March 21, 2011 3:06 PM  
**To:** Harrington, Holly  
**Subject:** Re: WSJ story on how US would respond to domestic radiological incident

In about a nanosecond please. Tnx.  
Eliot Brenner  
Director, Office of Public Affairs  
US Nuclear Regulatory Commission  
Protecting People and the Environment  
301 415 8200  
C: (b)(6)  
Sent from my Blackberry

---

**From:** Harrington, Holly  
**To:** Brenner, Eliot  
**Sent:** Mon Mar 21 15:05:00 2011  
**Subject:** FW: WSJ story on how US would respond to domestic radiological incident

I'll get someone in NSIR to bless

---

**From:** Racusen, Rachel [<mailto:Rachel.Racusen@dhs.gov>]  
**Sent:** Monday, March 21, 2011 2:39 PM  
**To:** Racusen, Rachel; Leistikow, Dan; Brenner, Eliot; (b)(6); Whithorne, Bobby; (b)(6); [andy.adora@epa.gov](mailto:andy.adora@epa.gov); Mueller, Stephanie; [gilfillan.brendan@epa.gov](mailto:gilfillan.brendan@epa.gov); Harrington, Holly; Colburn, Brent  
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Let us know if you all are good with this. And if anyone else has background they want to send me – please do so by 3 pm.

**Suggested edits to quote:**

(b)(5)

(b)(5)

**SUGGESTED BACKGROUND:**

(b)(5)

(b)(5)



(b)(5)

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**From:** [Harrington, Holly](#)  
**To:** [Racusen, Rachel](#)  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident  
**Date:** Monday, March 21, 2011 3:05:00 PM

---

I'll look this over and get someone from our EP division to bless

---

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**SUGGESTED BACKGROUND:**

[REDACTED] (b)(5)

(b)(5)

(b)(5)

(b)(5)

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Rachel Racusen  
Director of Public Affairs  
Federal Emergency Management Agency  
202-646-3272 (24 Hour News Desk)  
202-212-1656 (Direct)  
(b)(6) (Blackberry)

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#); [Harrington, Holly](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** RE: OPA Assistance  
**Date:** Monday, March 21, 2011 3:05:27 PM

---

Hi Jenny:

Please let me know if I am overwhelming you with emails and should stop sending them. I really value your ability to address some of the more technical questions. But – if you can't handle them, I'm sure Holly would help me find someone else....not that there is any real substitute for you!

Thank you so much for all of your help!!

Amy

---

**From:** Tobin, Jennifer  
**Sent:** Monday, March 21, 2011 3:02 PM  
**To:** Harrington, Holly  
**Cc:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** OPA Assistance

Holly,

Due to the small size of our office and our involvement with Japanese counterparts, my management has said that they need me in our office. I can still respond to the emails that you forward me but it doesn't look like I'll be able to "man a desk" with you guys for the remainder of the event. Hopefully things are calming down though!

-Jenny

Jenny (Tobin) Wollenweber  
Export Licensing Officer  
Office of International Programs  
office: 301-415-2328

**From:** [Racusen, Rachel](#)  
**To:** [Harrington, Holly](#)  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident  
**Date:** Monday, March 21, 2011 2:13:32 PM

---

Thanks.

---

**From:** prvs=054326b82=Holly.Harrington@nrc.gov [mailto:prvs=054326b82=Holly.Harrington@nrc.gov]  
**On Behalf Of** Harrington, Holly  
**Sent:** Monday, March 21, 2011 2:12 PM  
**To:** Racusen, Rachel  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

I have only two brain cells left and one is leaving shortly . . . See changes below

(b)(5)

---

**From:** Racusen, Rachel [mailto:Rachel.Racusen@dhs.gov]  
**Sent:** Monday, March 21, 2011 2:07 PM  
**To:** Harrington, Holly  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

(b)(5)

---

**From:** prvs=054326b82=Holly.Harrington@nrc.gov [mailto:prvs=054326b82=Holly.Harrington@nrc.gov]  
**On Behalf Of** Harrington, Holly  
**Sent:** Monday, March 21, 2011 12:19 PM  
**To:** Racusen, Rachel  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

I know. I used to work at FEMA . . . long-standing issue all the way around.

---

**From:** Racusen, Rachel [mailto:Rachel.Racusen@dhs.gov]  
**Sent:** Monday, March 21, 2011 12:14 PM  
**To:** Harrington, Holly  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

(b)(5)

**From:** prvs=054326b82=Holly.Harrington@nrc.gov [mailto:prvs=054326b82=Holly.Harrington@nrc.gov]  
**On Behalf Of** Harrington, Holly  
**Sent:** Monday, March 21, 2011 11:55 AM  
**To:** Racusen, Rachel  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

Yes, thank you.

(b)(5)

Holly

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**Sent:** Monday, March 21, 2011 11:52 AM  
**To:** Leistikow, Dan; Brenner, Eliot; (b)(6) Racusen, Rachel; Whithorne, Bobby; (b)(6) andy.adora@epa.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov; Harrington, Holly  
**Cc:** Bradley.carroll@dhs.gov  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

Just spoke to the reporter to get a little more info. He is mostly interested in the evacuations piece of this, from both a planning and response perspective. His main question is "if the NRC or the federal government were to issue a 50 mile radius evacuation order because of an incident at a plant, how would it be carried out? What would logistics look like?"

(b)(5)

**From:** Leistikow, Dan [mailto:Dan.Leistikow@hq.doe.gov]  
**Sent:** Monday, March 21, 2011 11:15 AM  
**To:** 'eliot.brenner@nrc.gov'; (b)(6) 'Rachel.Racusen@dhs.gov'; Whithorne, Bobby; (b)(6); 'andy.adora@epa.gov'; Mueller, Stephanie; 'gilfillan.brendan@epa.gov'; 'Holly.Harrington@nrc.gov'  
**Cc:** 'Bradley.carroll@dhs.gov'  
**Subject:** Re: WSJ story on how US would respond to domestic radiological incident

Happy to help however we can, (b)(5)

(b)(5)

to japan (ie not a terror threat)?

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**From:** Brenner, Eliot <Eliot.Brenner@nrc.gov>  
**To:** Shapiro, Nicholas S. <(b)(6)>; Racusen, Rachel <Rachel.Racusen@dhs.gov>; Whithorne, Bobby <Bobby.Whithorne@dhs.gov>; Stevens, Clark <(b)(6)>; andy.adora@epa.gov <andy.adora@epa.gov>; Leistikow, Dan; Mueller, Stephanie; gilfillan.brendan@epa.gov <gilfillan.brendan@epa.gov>; Harrington, Holly <Holly.Harrington@nrc.gov>  
**Cc:** Carroll, Bradley <Bradley.Carroll@dhs.gov>  
**Sent:** Mon Mar 21 11:05:02 2011  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

Holly Harrington (email address included above) is point for NRC on this.

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**From:** Shapiro, Nicholas S. [mailto:(b)(6)]  
**Sent:** Monday, March 21, 2011 11:01 AM  
**To:** Racusen, Rachel; Whithorne, Bobby; Stevens, Clark; andy.adora@epa.gov; Dan.Leistikow@hq.doe.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov; Brenner, Eliot  
**Cc:** Carroll, Bradley  
**Subject:** RE: WSJ story on how US would respond to domestic radiological incident

FEMA, can you please coordinate a USG wide approach/response to this story? should also include NRC, added here.

Should include relevant info from DOE/EPA/NRC/DHS and FEMA. I can send him this comment from me starting us off

(b)(5)

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**From:** Racusen, Rachel [mailto:Rachel.Racusen@dhs.gov]

**Sent:** Monday, March 21, 2011 10:53 AM

**To:** Shapiro, Nicholas S.; Whithorne, Bobby; Stevens, Clark; andy.adora@epa.gov;  
Dan.Leistikow@hq.doe.gov; Mueller, Stephanie; gilfillan.brendan@epa.gov

**Cc:** Carroll, Bradley

**Subject:** WSJ story on how US would respond to domestic radiological incident

Sorry for the several chains – but also just got a call from the WSJ for a story looking at how the U.S. would respond to a radiological release from a nuclear power plant, the likelihood for evacuation around the plant, etc.

Some of this is FEMA related – we handle planning and preparedness activities for the communities/areas around a nuclear plant. We are pulling together background we can walk him through in response to his questions, but wanted to send around to all of you in case anyone else got pinged for this story.

\*\*\*

All,

Wall Street Journal reporter Daniel Gilbert is writing a story on how the U.S. would respond to a radiological release from a nuclear power plant, the likelihood for evacuation around the plant and the associated logistical challenges. He would like to know if there is anyone available to speak with him on this.

The request came via email. His deadline is 2 or 3 this afternoon, but he would like to know ASAP.

Contact:

Daniel Gilbert

The Wall Street Journal

Desk: (713) 547-9229

Mobile:

[daniel.gilbert@wsj.com](mailto:daniel.gilbert@wsj.com)

**Deadline: 2 or 3 p.m. today**

\*\*\*

Rachel Racusen

Director of Public Affairs

Federal Emergency Management Agency

202-646-3272 (24 Hour News Desk)

202-212-1656 (Direct)

(Blackberry)

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**From:** OST05 Hoc  
**Sent:** Monday, March 21, 2011 9:53 AM  
**To:** Piccone, Josephine; Jackson, Deborah; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Herral; Maier, Bill; McNamara, Nancy; Tift, Doug; Trojanowski, Robert; Woodruff, Gena; Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark; Easson, Stuart; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta  
**Subject:** FW: SITREP: MARCH 20 (1600 EDT)  
**Attachments:** SITREP 20110320\_REPP\_JapanEarthquake 1.docx; Draft 20110319\_REPP\_SITREP\_JapanEarthquake.docx

Forwarding Situation Reports from March 19 and 20 developed by FEMA.

**Please note that this information is "~~Official Use Only~~" and is only being shared within the federal family.**

Thanks,  
Cindy Flannery  
State Liaison – Liaison Team  
NRC Incident Response Center



Earthquake / Tsunami Status Update - REPP Response Operations SITREP	
Situation Reporting Period:	
<b>Date/Time:</b>	20 March 2011 1600 EDT
<b>Incident:</b>	Earthquake & Tsunami effecting nuclear power plants
<b>Location of Incident:</b>	Northern Japan
<b>Incident Period:</b>	11 March 2011; 0946 EST
<b>POC &amp; Phone #:</b>	Harry Sherwood, Professional Services Branch Chief (510) 712-0132 Steve Horwitz, Outreach – Public Affairs Officer (703) 605-1208 John D. Simpson – Public Outreach Specialist (312) 718-1991

**Summary of Events**

A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan caused catastrophic damage to buildings and infrastructure on the northern coast of the Japanese mainland, causing widespread loss of electricity. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant, and interrupted primary cooling of nuclear fuel both within the reactors and within spent fuel pools at four of the six nuclear reactors, initiating a radiation emergency.

The Government of Japan's (GoJ) 20km (12 mile) evacuation zone remains in place around the Fukushima Daiichi Nuclear Power Plant, with a shelter-in-place order for those up to 30km (19 miles) out.

**Current Initiatives and Actions:**

**NRCC/IMAT**

- No significant changes for 3-20-11

**THD**

- No significant changes for 3-20-11

**NOC:**

- The Department of Energy plans to complete four Aerial Monitoring System missions today, which will provide additional data. The International Atomic Energy Agency reports seawater injections continue in Unit 1 and 2, fire trucks are reinforcing water spraying efforts to Unit 3. Preparations are being made to inject water into Unit 4's spent fuel pool and water continues to be circulated within Unit 5 and 6 spent fuel pools.
- **Future:** The National Oceanic and Atmospheric Administration forecasts for the coastal Fukushima area northeasterly winds (10-15 mph) blowing onshore, throughout the day on Monday. The Department of Homeland Security National Operations Center will continue to monitor this incident. The next scheduled Senior Leadership Brief and Update Report will be published at 1800 EDT, 20 Mar.
- **Other:** The Federal Emergency Management Agency reports the Urban Search and Rescue teams have returned to the US. Department of Defense (DoD) dependents have been authorized to take commercial flights, in addition to DoD charters, to Seattle-Tacoma. Immigration and Customs Enforcement Attache personnel continue to assist with the coordination of voluntary departures of civilian and non-essential military personal to designated safe havens.

**Senior Leadership Brief:**

**Current Situation:**

- The Japanese Ministry of Health, Labour, and Welfare informed the International Atomic Energy Agency

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(IAFA) that radiation levels exceeding legal limits have been detected in milk produced in the Fukushima area and in certain vegetables in Ibaraki. Low levels of radiation have been detected in water supplies. The Ministry has requested an investigation into a possible ban on food products from the Fukushima Prefecture.

- The U.S. Department of Energy (DOE) and U.S. Environmental Protection Agency (EPA) are the Federal communicators for questions regarding domestic impacts and monitoring from the events in Japan.

Reactor Status: Tokyo Electric Power Company (TEPCO) connected external transmission lines and confirmed that electricity can be supplied. TEPCO is checking the equipment to ensure it is not damaged and will begin pumping coolant to Units 1-4 as soon as possible.

- NRC Protective Measure Team is working with the Department of Energy and National Atmospheric Release Advisory Center to refine models in an effort to develop dose projections beyond 50 miles.
- Open source media states TEPCO considering burying the reactors in sand and concrete.

*Unit 1:* (NRC priority: 4)

**Core Cooling:** RCS pressure 2.75 atm (Source: IAFA), sea water injected to cool core (Source: NISA)

**Other:** Offsite power line connected to local substation, power restoration ongoing (Source: IAFA)

*Unit 2:* (NRC priority: 3)

**Other:** Offsite power line connected to local substation, power restoration ongoing (Source: NISA), usefulness in question for pump motors & instrumentation due to time

*Unit 3:* (NRC priority: 1)

No change

*Unit 4:* (NRC priority: 2)

No change

*Unit 5:* (NRC priority: 5)

No change

*Unit 6:* (NRC priority: 6)

No change

TEPCO continues to lay cables to restore electricity to reactors No. 1, 2, 5 and 6 March 19 and said it hoped to start supplying electricity to reactors No. 3 and 4 on March 20. Once restored, TEPCO plans to test the pumps and other cooling systems, which might be damaged. Tests could pose the risk of fire. Two diesel generators at reactor No. 6 are operational. TEPCO announced the water circulation function was restored at reactor No. 5.

#### U.S. Customs and Border Protection (CBP)

- The CBP Crisis Action Cell has requested arrival/departure, passenger manifest/manifest data, and known documentation issues from U.S. Embassy Tokyo, National Targeting Center (NTC) - Passenger, and NTC - Cargo.
- The Miami Field Office received a Landing Rights Request from Miami Air for military evacuation flights from Japan. The request cites three flights with 127 passengers each. One flight is scheduled for 21 March, and two on 23 March.

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#### Immigration and Customs Enforcement (ICE)

- The two Attache Tokyo personnel continue to assist U.S. Agency for International Development with logistics matters. Attache Tokyo is taking part in coordination of the voluntary departure of civilian and non-essential military personnel to a designated safe haven.
- ICE shipped five dosimeters to the U.S. Embassy in Tokyo. Attache Tokyo had been using dosimeters on loan from CBPs Office of International Affairs.

#### Department of Energy (DOE)

- Aerial Measuring System (AMS) operations will continue between Tokyo and north to the power plant. Priorities will be the Fukushima area, areas southwest of the U.S. citizen 50-mile ordered departure area, the Joban and Tohoku expressways from north of Tokyo to within the U.S. citizen 50-mile ordered departure area, and the highway between Yokota and Tokyo.

#### Department of Defense (DoD)

- DoD dependents are authorized to take commercial flights in addition to the organized charters to Seattle-Tacoma.
- Seattle-Tacoma is the primary entry for repatriation of DoD personnel. Total number of personnel estimated to be repatriated is 9,400. The first flight departed on 19 March with 233 passengers onboard. There are eight flights currently scheduled over the next seven days and 11 flights through 25 March.
- Region 10 Defense Coordinating Officer will establish a Forward Joint Reception Coordination Center for repatriation of DoD families and personnel from PACOM. Teams of Army, Air Force, and Navy representatives will meet and support DoD dependents as they arrive.

#### Environmental Protection Agency (EPA)

- EPA does not expect to see harmful levels of radiation reach the U.S. from damaged Japanese nuclear power plants.

#### Department of State (DOS)

- The consular team deployed to Sendai has returned to Tokyo.

#### National Oceanic and Atmospheric Administration (NOAA)

- Winds southwest to west at 5 to 10 mph on 20 March, and then southwest to west at 5 to 10 mph through 21 March.

#### Food and Drug Administration (FDA)

- Based on current information, there is no risk to the U.S. food supply.

#### *USNRC Emergency Operations Center Status Update*

NRC has issued numerous press releases related to the earthquake and tsunami. These press releases can be found online at: <http://www.nrc.gov/reading-rm/doc-collections/news/2011/>

**Current Top Priorities:**

- Coordination with other U.S. Departments and Agencies, the Institute of Nuclear Power Operations (INPO), Bechtel, General Electric Hitachi (GEH), Tokyo Electric Power Company (TEPCO), and the Japanese military.
- NRC continues to work with other Federal agencies to deliver temporary cooling equipment to the Daiichi site. An initial shipment of equipment will depart for Japan on March 20, 2011.
- TEPCO continued to lay cables to restore electricity to reactors No. 1, 2, 5 and 6 on March 19 and said it hoped to start supplying electricity to reactors No. 3 and 4 on March 20. Once restored, TEPCO plans to test the pumps and other cooling systems, which might be damaged. Tests could pose the risk of fire. Two diesel generators at reactor No. 6 are operational. TEPCO announced the water circulation function was restored at reactor No. 5.

**Protective Measures Team (PMT) Update**

- On March 20, NARAC received MELCOR source term information for reactors and spent fuel pools for use in further modeling of worst case scenarios.
- RASCAL runs using the data supplied by the AMS fly over and MEXT monitoring point readings support the decision for the 50 mile evacuation recommendation for US citizens issued on March 16.
- Information received from Naval Reactors discussed military aircraft survey activities and the identification of very low level indications of radionuclides approximately 2300 miles NE of the Fukushima reactors and south of the Aleutian Islands. AK EPA Radnet monitoring stations appeared to record a short lived, very low level indication at stations in Anchorage and Juneau on March 17 and 18.

**REPP Updates**

FRPCC

No call for March 20, 2011

Lisa Hammond, RAC Chair Region VI, is providing copies of REP-related emergency information in Spanish.

Dan Feighert (Region VIII) has been detailed to FEMA HQ.

Lou DeGilio and Larry Broockerd are serving as liaisons at USAID working with the NRC/DOE partners. They are fielding questions and assisting in document preparation about emergency evacuations, decontamination, and mass care. Each will be working a 13-hour shift daily.

Bonnie Sheffield and Ken Wicman are detailed to the NRC HQ Operations Center.

Joshua Barnes has been detailed to IMAT.

John Simpson (Region V), Joseph Harworth (Region IV), and Odis Spencer (Region IV) are detailed to HQ FEMA.

In a senior-level conference call on March 18, including the RAC Chairs, FEMA External Affairs indicated that REP HQ will be sending the most up-to-date fact sheets to the RAC Chairs.

**NOTE to readers that FOUO material should not be shared outside of the federal government.** Please refer inquiries regarding exercise reports to the NRC Reading Room: <http://nrc.gov/reading-rm.html>

Please collect and continue to submit questions to HQ.

Please submit all public meetings, events, exercises, etc. to HQ to be drawn into a calendar of events that will be shared.

**Requested Personnel (DRWs)**

REPP Business Operations has coordinated with THD HQ for 24/7 on-call coverage.

**New Resource Requirements**

TBD

**Anticipated Resources / Services / Personnel (Next 48-96 hours)**

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<b>Shortfalls / Limiting Factors</b>

<b>Future Operations Planning / Sustainment - Next 48 hours and out</b>
TBD

<b>Funding Source and Cost Data</b>
REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.

<b>Retrograde Planning &amp; Execution</b>
TBD

<b>Other Significant Information</b>
Statement from Governor Andrew M. Cuomo, Albany, NY (March 19, 2011)  "After watching the events in Japan and having previously opposed the Indian Point plant, this past Tuesday, I requested the White House schedule a meeting between my staff and senior members of the Nuclear Regulatory Commission. That meeting has now been scheduled for Tuesday, March 22 with, among others, Lieutenant Governor Robert Duffy and Director of State Operations Howard Glaser."  "The purpose of the meeting will be to discuss the risks facing Indian Point in the event of an earthquake, how prepared Indian Point is to handle an earthquake, as well as what risk assessments have been completed regarding Indian Point."

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"We are looking forward to a productive dialogue with the NRC."

Earthquake / Tsunami Status Update - REPP Response Operations SITREP	
Situation Reporting Period:	
Date/Time:	19 March 2011; 1600
Incident:	Earthquake & Tsunami effecting nuclear power plants
Location of Incident:	Northern Japan
Incident Period:	11 March 2011; 0946 EST
POC & Phone #:	Harry Sherwood, Professional Services Branch Chief (510) 712-0132 Steve Horwitz, Outreach - Public Affairs Officer (703) 605-1208 John D. Simpson - Public Outreach Specialist (312) 718-1991

### Summary of Events

A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan caused catastrophic damage to buildings and infrastructure on the northern coast of the Japanese mainland, causing widespread loss of electricity. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant, and interrupted primary cooling of nuclear fuel both within the reactors and within spent fuel pools at four of the six nuclear reactors, initiating a radiation emergency.

The Government of Japan's (GoJ) 20km (12 mile) evacuation zone remains in place around the Fukushima Daiichi Nuclear Power Plant, with a shelter-in-place order for those up to 30km (19 miles) out.

#### Current Initiatives and Actions:

#### NRCC/IMAT

- Establish a contingency planning task force with support from the FEMA Radiological Emergency Preparedness Program (REPP), DHS Office of Health Affairs (OHA), U.S. Department of Health and Human Services (HHS), FEMA Office of Chief Counsel (OCC), and FEMA Office of External Affairs.

#### THD

- THD has been operational continuously from 0630 March 11.
- Initial support was provided in coordinating with FEMA Region IX on the status of Offsite Preparedness at Diablo Canyon Power Plant and San Onofre Nuclear Generating Station due to Tsunami warnings in the event a Disaster Initiated Review (DIR) was necessary.
- THD has maintained liaisons at NRCC, NRC, USAID and IMAT.
- Responding to information requests in support of ESF-5 and ESF-15 specific to offsite response organization planning procedures and preparedness at domestic nuclear power plants and general information on the Radiological Emergency Preparedness Program.
- THD is maintaining media monitoring and trend analysis specific to offsite preparedness.
- Regions continue to provide situational awareness and information requests from State counterparts and offsite response organizations and furnishing background information to Regional Offices.
- Requests for information and assistance are being referred to the appropriate agency.
- THD continues to maintain 24/7 watch capability.

*Senior Leadership Brief:* As of 18 March, the NRC continues to affirm its 13 March scientific judgment that no harmful radiation is expected to reach the U.S., even with worsening conditions in Japan.

- The U.S. Embassy Tokyo warden message stating American citizens within 80km (50 miles) of the Fukushima Nuclear Power Plant should evacuate or take shelter indoors, and the Government of Japan's (GOJ) established evacuation zone/shelter-in-place order remain in effect.



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Reactor Status: Tokyo Electric Power Company (TEPCO) connected external transmission lines and confirmed that electricity can be supplied. TEPCO is checking the equipment to ensure it is not damaged and will begin pumping coolant to Units 1-4 as soon as possible.

- NRC Protective Measure Team is working with the Department of Energy and National Atmospheric Release Advisory Center to refine models in an effort to develop dose projections beyond 50 miles.
- Open source media states TEPCO considering burying the reactors in sand and concrete.

*Unit 1:* No change

*Unit 2:* No change

*Unit 3:* The reactor water level has been measured at 6.5 feet below the top of the fuel rods. The reactor vessel is intact; however, the primary containment chamber is believed to have a small crack, and the secondary containment chamber is severely damaged. The spent fuel pool is exhibiting boiling and a large amount of vapor. Calculations indicate the pool will dry out by 4 April. Helicopter water drops and water cannons continue to provide water to the spent fuel pool. The NRC believes spent fuel pool is already dry.

*Unit 4:* There are conflicting reports regarding the amount of water in the spent fuel pool. The NRC believes the fuel pool has likely run dry. International Atomic Energy Agency (IAEA) officials convey conditions within the unit are consistent with the GOJ position that water is present. Embassy officials could not make a definitive confirmation.

*Unit 5:* The reactor is stable and is being adequately cooled to maintain safety. The level in the spent fuel pool is decreasing; the water circulation function was restored at the spent fuel storage pool, making it possible to prevent the rise of temperature and drop of water level in the pool.

*Unit 6:* No change

#### U.S. Customs and Border Protection (CBP)

- CBP is coordinating with DHS and interagency partners to ensure the safety of arriving persons and cargo from Japan. The National Targeting Center – Cargo has instructed cargo ports of entry to scan all cargo from Japan (to include international mail) for radiation using Radiation Portal Monitors. CBP frontline personnel are equipped with Personal Radiation Detectors that can detect the presence of radiological materials.
- Issued field guidance reiterating its operational protocols and provided field personnel specific direction with regard to monitoring of maritime and air traffic from Japan.

#### Department of Energy (DOE)

- The greatest concentration of contaminated material is northwest of the accident site. A narrow 13-mile band shows integrated four-day doses approach or exceed one (1) rem.
- As of 18 March, Aerial Measuring System (AMS) flight measurements have not covered a large enough geographical location to completely map the extent of contamination. AMS flights are planned for east and south of Fukushima Daiichi for ground contamination and exposure rate measurements.
- Data collected from four AMS flights which targeted U.S. Embassy/Military installations, the Honda Test Track, and coastal areas show two to three times the historical background range; measured exposure rates are assumed to be due to ground deposits; additional flights will monitor true ground deposits.

March 14, 2011

# Talking Points

~~*For Internal Use Only*~~

## RESPONSE TO RADIOLOGICAL EMERGENCIES INVOLVING NUCLEAR POWER PLANTS IN THE U.S.

- **In the event of an incident or explosion occurring at a nuclear power plant in the U.S., the Department of Homeland Security would bring to bear the expertise and authorities of agencies across the Federal government.** These roles are outlined in the National Response Framework, a guide to how the nation conducts all-hazards response – from the smallest incident to the largest catastrophe. The NRF makes clear the roles and responsibilities of federal agencies under all domestic incidents, so that all other members of the nation’s emergency management team understand how the federal response would be coordinated. It applies to both Stafford Act and non-Stafford Act events. For more on the NRF, click here: [http://www.fema.gov/pdf/emergency/nrf/NRF\\_FAQ.pdf](http://www.fema.gov/pdf/emergency/nrf/NRF_FAQ.pdf).
- **Under this scenario, several agencies would have lead roles in technical and operational needs. For instance:**
  - The Nuclear Regulatory Commission (NRC) would coordinate incidents at, or caused by, a facility that is licensed by the NRC or under agreement with the NRC, such as commercial nuclear power plants.
  - The Environmental Protection Agency EPA would coordinate the Federal environmental response to incidents involving the release of nuclear/radioactive materials that occur in the inland zone and in certain coastal zones.
- **FEMA would stand ready to support the federal response efforts in any way needed, as permitted under our authorities.** We would leverage all of the resources our agency brings to bear, including our expertise in disaster response and recovery coordination, help with staffing, and other needs, in support of the federal response and the impacted states and local communities.
- When disasters strike, the first responders are local emergency and public works personnel, volunteers, humanitarian organizations, and numerous private interest groups who provide emergency assistance required to protect the public’s health and safety and to meet immediate human needs.
- While the NRC has a key role in working with many of the nation’s nuclear power plants meet regulatory requirements for emergency planning and preparedness for onsite nuclear power plant activities, FEMA has a key role in working with states and local communities with

emergency planning and preparedness for offsite radiological activities – meaning for the residents and communities beyond the physical boundaries of the power plant.

- FEMA established the Radiological Emergency Preparedness Program to provide state and local communities the support and resources they need to ensure the health and safety of citizens living around commercial nuclear power plants would be adequately protected in the event of a nuclear power plant accident; and inform and educate the public about radiological emergency preparedness.
- As part of this effort, FEMA works closely with state, local and tribal communities to ensure they have adequate emergency plans in place to protect public health and safety, ensure that these plans can be used by emergency response personnel and include sufficient resources and equipment during an emergency, and provided emergency preparedness training to state and local officials as needed. Under this program, FEMA also evaluates the alert and notification system for nuclear power plants, including outdoor warning sirens and back-up systems.
- FEMA cooperates closely with the NRC in these efforts and provides its findings from these evaluations to the NRC.
- As we do with all hazards, FEMA is focused on making sure the public is aware of the various risks in their communities and providing preparedness and safety information about the potential impact of a nuclear or radiological threat. Families that live near or around nuclear power plants should become informed about simple steps they can take to protect themselves in the event of a nuclear explosion by contacting their local Office of Emergency Management, referring to information in the local telephone directory and publications received about emergency preparedness. Individuals and families can also visit <http://www.ready.gov/america/beinformed/nuclear.html>

###

Earthquake / Tsunami Status Update - REPP Response Operations SITREP	
Situation Reporting Period:	
Date/Time:	18 March 2011; 1600
Incident:	Earthquake & Tsunami effecting nuclear power plants
Location of Incident:	Northern Japan
Incident Period:	11 March 2011; 0946 EST
POC & Phone #:	Harry Sherwood, Professional Services Branch Chief (510) 712-0132 Michelle Ralston, Public Information & Outreach (202) 280-9304 Steve Horwitz, Outreach – Public Affairs Officer (703) 605-1208

Summary of Events
<p>11 March, an 8.9 magnitude earthquake followed by a tsunami occurred 80 miles east of Sendai, Honshu Island, Japan. The USGS upgraded the earthquake to a 9.0 magnitude on March 14.</p> <p><i>Excerpt From the NOC:</i> The Government of Japan's (GoJ) 12-mile evacuation zone remains in place around the Fukushima Daiichi Nuclear Power Plant, with a shelter-in-place order for those up to 19 miles out. The US Department of State is assisting US citizens departing from affected areas. The primary containment for Unit 3 is reported to have a small crack and the secondary containment is severely damaged. The GoJ has requested US Coast Guard (USCG) assistance with immediate response to the nuclear emergency, damage assessment, and long-term remediation. This request includes aerial spraying, high capacity pumps, shiploads of fresh water, remote controlled cameras, protective clothing, and the transportation of 5,500 civilians. The US Environmental Protection Agency (EPA) continues to keep all radiological data available in the current online database (RadNet).</p> <p><i>Future:</i> The US Department of Transportation reports the Maritime Administration, in cooperation with the USCG, intends to release a notice advising mariners to avoid areas within 50 miles of the Fukushima Daiichi Nuclear Power Plant. The National Oceanic and Atmospheric Administration forecasts southwest winds blowing 10 mph offshore through 18 March. The Department of Homeland Security National Operations Center will continue to monitor this incident.</p> <p><i>Other:</i> The US EPA deployed eight radiological air monitoring units, which are expected to arrive today. The radiological air monitors were deployed to Guam (1), Northern Mariana Islands (1), Hawaii (1), Dutch Harbor USCG Station, Alaska (1), Nome, Alaska (1), Juneau, Alaska (1), and Anchorage, Alaska (2). All units are expected to be operational and providing initial data by 20 March.</p> <p><i>Senior Leadership Brief:</i> As of 18 March, the NRC continues to affirm its 13 March scientific judgment that no harmful radiation is expected to reach the U.S., even with worsening conditions in Japan.</p> <ul style="list-style-type: none"> <li>• The Centers for Disease Control and Prevention (CDC) have posted radiation exposure guidance to their website.</li> <li>• Department of State (DOS) Disaster Assistance Response Team (DART), assisting USAID, will remain in Japan until further notice.</li> <li>• U.S. Embassy Seoul forwarded 5,000 doses of potassium iodide from U.S. Forces Korea contingency stock to U.S. Embassy Tokyo.</li> </ul> <p><i>USNRC Emergency Operations Center Status Update</i></p> <p>NRC has issued numerous press releases related to the earthquake and tsunami. These press releases can be found online at: <a href="http://www.nrc.gov/reading-rm/doc-collections/news/2011/">http://www.nrc.gov/reading-rm/doc-collections/news/2011/</a></p> <p><i>Current Top Priorities</i></p> <ul style="list-style-type: none"> <li>• Currently, NRC's top priorities are determining radiological conditions, dose projections, and protective action recommendations, as well as facilitating the design, procurement, and delivery of temporary pumping equipment for emergency cooling.</li> </ul> <p><i>Status of NRC Licensee and Agreement State Facilities</i></p>

- NRC is discontinuing reporting status of NRC licensee and Agreement State facilities. NRC will resume this reporting should any issues arise related to earthquake or tsunami effects. NRC is currently working on a generic communication for distribution to the U.S. nuclear power reactor fleet.
- The Institute of Nuclear Power Operations (INPO) issued a Level 1 Event Report (highest level) to its members on the afternoon of March 15, 2011. It identifies 4 actions, with due dates, and requires a written response. In general, the actions include walkdowns and verifications of aspects of facility capabilities to address B.5.b equipment and procedures, Severe Accident Management Guidelines (SAMGs), mitigation of station blackout (SBO) conditions, mitigation of internal and external flooding, and fire and flooding events that could be impacted by a concurrent seismic event.
- The Nuclear Energy Institute (NEI) issued two fact sheets on March 16, 2011: "Industry Taking Action to Ensure Continued Safety at U.S. Nuclear Energy Plants" and "Used Nuclear Fuel Storage at the Fukushima Daiichi Nuclear Power Plant."

Current Understanding of Japanese Facilities (This information is compiled from TEPCO: press releases, IAEA information releases, Federation of Electric Power Companies of Japan, Japan Atomic Industrial Forum, World Association of Nuclear Operators, the NRC in-country team and others.)

- Japanese national government instructed evacuation for local residents within a 20km radius of the site boundary and sheltering in place out to 30 km for residents who stayed behind. As of March 12, a 10 km complete radius evacuation has been ordered for the public. IAEA confirms a no-fly zone out to 30 km around the Fukushima Daiichi plant. As of 1830 EDT on March 15, 2011, there have been no updates to protective actions.
- Japanese authorities have changed the classification of the event from a Level 4 to a Level 5 "Accident with Wider Consequences" on the International Nuclear and Radiological Event Scale (INES).
- DOE Aerial Measurement Teams have completed two flyovers of the Daiichi site. Data from the second flyover was received and is being analyzed. The NRC in-country team is embedding a staffer at the TEPCO EOC.
- Protective Measures Team (PMT) Conducting Two Analyses: PMT is actively working with DOE, NARAC, and other Federal Agencies to refine and model offsite dose calculation models to estimate the potential for radio nuclides to reach US territories. The models assume fuel damage, containment damage, and damage to some spent fuel pools with open access to the environment. Wind shift over land is not expected until March 20, 2011.

**International Response**

- IAEA has sent a two-person team to conduct coordination activities and to take measurements. NRC communicated with IAEA to discuss the status and concerns.
- France is sharing technical data with the NRC and publicly posted their assessment of doses in Tokyo on the IRSN website.
- Spain Parliament is still reviewing and deciding on support levels.
- Italy is interested in discussing what the USG is doing, and might be interested in helping in some way.
- Russia has sent a team to Tokyo. The U.S. team is planning to meet to understand Russian capabilities and to coordinate activities.

*Excerpt from NRC Talking Points of March 18 @ 3:15 PM:*

"The Department of Energy has been designated the lead agency for communicating information to the States regarding monitoring of radiation heading toward or over the United States. The DOE's Lawrence Livermore National Laboratory (National Atmospheric Release Assessment Center) is monitoring weather patterns over the Pacific Ocean. The Environmental Protection Agency maintains air monitoring stations throughout the country and has reinforced its monitoring effort. DOE will provide aerial monitoring. Questions about this effort should be directed to DOE at 202 586 4940."

*Government Security News: Governors order nuclear plant reviews, congress urges more action*

Florida Governor Rick Scott has asked his state's Division of Emergency Management Director Bryan Koon to

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review emergency action plans for the state's five nuclear reactors in the face of natural or manmade disaster. There are three additional facilities within 100 miles of Florida's borders, Scott's office said. New York Governor Andrew Cuomo has ordered a safety review of a nuclear plant located near a seismic fault 35 miles north of Manhattan. Cuomo said the Indian Point Energy Center on the Hudson River in suburban Westchester County will be reviewed. The plant is near a fault line, but scientists are in disagreement about the level of threat it poses.

FEMA Administrator Craig Fugate was quoted in the Washington Post of March 18: "You don't get to pick the next disaster. You don't necessarily know where the threats are ... We plan for the things we know, but we also plan for the things we don't know."

#### ~~REPP Updates~~

##### FRPCC Call March 17, 2011

- FEMA led a Federal Radiological Preparedness Coordinating Committee (FRPCC) Teleconference on March 17, 2011. Participating agencies reported out on the status of activities, capabilities available, and information and resource needs.
- FEMA REP reported that it is maintaining its current REP Exercise Schedule.
- DOE reported that it has aircraft in Japan and has initiated monitoring flights. The National Atmospheric Release Advisory Center (NARAC) will use data from these flights to create models.
- The FRPCC recommended that the Interagency Modeling and Atmospheric Assessment Center (IMAAC) be re-activated to provide a single source for Federal hazard predictions.
- EPA reported that it is working on a simplified website for access to the RadNet data.

Lisa Hammond, RAC Chair Region VI, is providing copies of REP-related emergency information in Spanish. (See below, last two attachments.)

Lou DeGilio and Larry Brockerd are serving as liaisons at USAID working with the NRC/DOE partners. They are fielding questions and assisting in document preparation about emergency evacuations, decontamination, and mass care. Each will be working a 13-hour shift daily.

Bonnie Sheffield has been detailed to the NRC HQ Operations Center.

In a senior-level conference call on March 18, including the RAC Chairs, FEMA External Affairs indicated that REP HQ will be sending the most up-to-date fact sheets to the RAC Chairs.

~~NOTE to readers that FOUO material should not be shared outside of the federal government.~~ Please refer inquiries regarding exercise reports to the NRC Reading Room: <http://nrc.gov/reading-rm.html>

Please collect and continue to submit questions to HQ.

Please submit all public meetings, events, exercises, etc. to HQ to be drawn into a calendar of events that will be shared.

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**Requested Personnel (DRWs)**

REPP Business Operations has coordinated with THD HQ for 24/7 on-call coverage.

**New Resource Requirements**

TBD

**Anticipated Resources / Services / Personnel (Next 48-96 hours)**

**Shortfalls / Limiting Factors**

**Future Operations Planning / Sustainment - Next 48 hours and out**

TBD

**Funding Source and Cost Data**

REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.






**Retrograde Planning & Execution**

TBD

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~~FOUO~~

~~FOUO~~

<b>Other Significant Information</b>				
 A Whole Community Approach To Alert An	 Is FEMA ready for the next disaster.pdf	 Emergency Planning Zones.pdf	 Spanish Public Info.pdf	 STP Public Information-Spanish.1



## EMERGENCY PLANNING ZONES

### EPZs in Brief

Federal Emergency Management Agency (FEMA) and Nuclear Regulatory Commission (NRC) emergency preparedness planning guidance provides for two emergency planning zones (EPZs) for U.S. commercial nuclear power plants (NPPs):

- **Plume** Exposure Pathway (apx. 10 Miles in radius)
  - Designed to safeguard the population most at risk from **direct exposure** to radiation levels in excess of Environmental Protection Agency Protective Action Guidelines (PAGs)
- **Ingestion** Exposure Pathway (apx. 50 Miles in radius)
  - **Designed to protect** the public from **secondary exposure** to radiation through the food chain or public water supplies

The planning zones are intended to be scalable over time to account for changing conditions that could possibly extend outside the initial EPZ.

Specifically, NUREG-0654/FEMA-REP-1 states: "In a particular emergency, protective actions might well be restricted to a small part of the planning zone. On the other hand, for the worst possible accidents, protective actions would need to be taken outside the planning zones" (I.D., p.11) **i.e., the EPZs are the base areas requiring emergency planning - they are designed to be expanded (beyond the base of 10, 50 miles), as necessary, during emergencies.**

**Note:** The 10 & 50 mile EPZs are the Federally required minimum. FEMA and NRC regulations state that the exact size and shape of the EPZs shall be determined by the State and local governments - in consultation with FEMA and the NRC, taking into account such local conditions as demography, topography, land characteristics, access routes and local jurisdiction boundaries.(44 CFR § 350.7).

### EPZ Evacuations

FEMA affirms that evacuation of the public is the preferred initial protective action in the event of a severe (core damage) emergency occurring (or likely to occur) at NPPs. Federal requirements for NPPs include the establishment of EPZs at 10 and 50-mile distances surrounding the site that detail evacuation routes. Evacuation planning includes the development and incorporation of periodic evacuation time estimate studies to inform evacuation strategies such that prompt and effective actions can be taken by offsite response organizations to protect the public in the event of a radiological emergency. This includes accounting for both permanent and transient populations, persons with disabilities and access/functional needs, those whose mobility may be impaired because of institutional or other confinement as well as provisions for the monitoring, decontamination and congregate care of evacuees, as necessary.

Where immediate evacuation of an affected population within the EPZ is not practical due to impediments (e.g., debris blocking evacuation routes, severe weather, etc.) or where evacuation could pose a greater potential health risk, temporary sheltering-in-place of the public is the preferred protective action. State, Tribal and local evacuation plans and

procedures for NPP communities are reviewed and approved by FEMA. While actual evacuations of the public are not required in biennial FEMA evaluations, appropriate demonstrations by State, Tribal and local response agencies to direct and control a public evacuation is assessed.

**EPZs in Detail**

The Emergency Planning Zone (EPZ) is the area surrounding an commercial nuclear power plant (NPP) for which plans/procedures have been made to ensure that prompt and effective actions are taken to protect the health and safety of the public in case of an incident at the NPP. The Federal Emergency Management Agency (FEMA) recognizes two types of EPZs for planning purposes: the plume exposure pathway EPZ and the ingestion exposure pathway EPZ. The characteristics of these two types of EPZs are summarized in Exhibit I. Each EPZ is a roughly circular area, with the NPP at the center.

The EPZs sizes represent a technical judgment based on the type and quantity of hazardous materials present (source term) and the potential risks where detailed planning is needed to ensure adequate response to an emergency. An EPZ may include more than one State. "Split" jurisdictions (i.e., part of the jurisdiction is included in the EPZ and part is not) also exist. In these cases, EPZ boundaries are determined based on consultation with all parties involved, including OROs, FEMA, and the NRC. In some cases, a conservative option is taken and the entire jurisdiction is included in the EPZ.

**Exhibit I: Plume and Ingestion EPZ Characteristics**

Type of EPZ	Exposure Sources	Size
<b>Plume Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Whole-body external exposure to gamma radiation from the passing plume and from deposited material</li> <li>• Thyroid exposure through inhalation from the passing plume</li> <li>• Committed effective dose equivalent exposure to other critical organs through inhalation</li> </ul>	Approximately 10-mile radius
<b>Ingestion Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Ingestion of contaminated water or foods, such as milk, fresh vegetables, and aquatic foodstuffs, may result in increased risk of radiation-induced cancer to the thyroid, bone marrow, and other organs</li> </ul>	Approximately 50-mile radius

The size of the plume exposure pathway EPZ, about 10 miles in radius, is based on the following considerations from NUREG-0654/FEMA-REP-1:

- Projected doses from traditional design-basis accidents/incidents would not exceed the Environmental Protection Agency Protective Action Guideline (PAG) levels outside the zone;
- Projected doses from most core damage sequences would not exceed PAG levels outside the zone;
- For the worst-case core damage sequences, immediate life-threatening doses would generally not occur outside the zone; and

- **Detailed planning within approximately 10 miles would provide a substantial base for expansion of response efforts to a larger area, if necessary.**

The size of the ingestion exposure pathway EPZ, about 50 miles in radius, including the 10-mile radius plume exposure pathway EPZ, is based on the following considerations:

- The downwind range within which contamination may potentially exceed the PAGs is limited to about 50 miles from an NPP because of wind shifts during the release and travel periods;
- Atmospheric iodine (i.e., iodine suspended in the atmosphere for long periods) may be converted to chemical forms that do not readily enter the ingestion pathway; and
- Much of the particulate material in a radioactive plume would have been deposited on the ground within about 50 miles from the NPP.

The likelihood of exceeding ingestion exposure pathway PAG levels at 50 miles is comparable to the likelihood of exceeding plume exposure pathway PAG levels at 10 miles.

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**From:** LIA05 Hoc  
**Sent:** Thursday, March 24, 2011 4:27 PM  
**To:** LIA06 Hoc; LIA08 Hoc  
**Cc:** LIA04 Hoc; OST05 Hoc  
**Subject:** FW: SitRep: March 24  
**Attachments:** SITREP 2011-03-24 REPP Japan Earthquake Final.doc

FYI,

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

\*\*\*\*\*~~FOR OFFICIAL USE ONLY~~\*\*\*\*\*

~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Thursday, March 24, 2011 4:24 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: SitRep: March 24

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry [redacted] (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

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**From:** Horwitz, Steve  
**To:** Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; Hammond, Lisa <lisa.hammond@dhs.gov>; Feighert, Dan; Fiore, Craig; Webb, Bill  
**Cc:** Sherwood, Harry; Ralston, Michelle; Hlavaty-LaPosa, Janet <janet.hlavaty-laposa@dhs.gov>; Quinn, Vanessa; Coons, Albert; Greten, Timothy; 'Kish, James' <James.Kish@dhs.gov>; Sheffield, Bonnie; Wierman, Kenneth; Purvis, James <james.purvis@dhs.gov>; 'Hobbs, Terry' <Terry.Hobbs@dhs.gov>; 'Rohmer, Ashton' <[redacted] (b)(6)>  
**Sent:** Thu Mar 24 16:18:08 2011  
**Subject:** SitRep: March 24

Earthquake / Tsunami Status Update - REPP Response Operations SITREP	
Situation Reporting Period:	
Date/Time:	24 March 2011 1600 EDT
Incident:	Earthquake & Tsunami effecting nuclear power plants
Location of Incident:	Northern Japan
Incident Period:	11 March 2011; 0946 EST
POC & Phone #:	Harry Sherwood, Professional Services Branch Chief (510) 712-0132 Steve Horwitz, Outreach - Public Affairs Officer (703) 605-1208 Dan Feighert - RAC Chair, Region VIII (202) 212-1370

**Summary of Events**

A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan caused catastrophic damage to buildings and infrastructure on the northern coast of the Japanese mainland, causing widespread loss of electricity. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant, and interrupted primary cooling of nuclear fuel both within the reactors and within spent fuel pools (SFP) at four of the six nuclear reactors, initiating a radiation emergency.

The Government of Japan's (GoJ) 20km (12 mile) evacuation zone remains in place around the Fukushima Daiichi Nuclear Power Plant, with a shelter-in-place order for those up to 30km (19 miles) out.

Current Initiatives and Actions:

NRCC/IMAT

- No significant changes for 03-24-11

THD

- No significant changes for 03-24-11

NOC:

- **Current:** The Tokyo Electric Power Company (TEPCO) halted a water spraying operation and evacuated the working area as a precautionary measure. The status of the nuclear units is as follows: Unit 2: The SFP has been filled, power has been restored, and electric water pump systems are being tested. Unit 3: Black smoke began rising from Unit 3 March 23; cause unknown. The seawater injection is being converted to freshwater in the reactor and trucks are pumping freshwater into SFP. Water level and pressure are stable. Power has been restored. Unit 4: Spraying continues periodically for the SFP. Power has been restored. The GoJ approved deployment of an unmanned helicopter to drop water in the fuel rod holding tanks. The Department of Defense (DoD) reports five voluntary departure flights, with a total capacity of 902, scheduled to depart with DoD family members today. The Japanese Food Safety Commission (FSC) passed an official request for a point of contact within the U.S. Government in case they need/want technical assistance or U.S. views on food safety issues. Customs and Border Protection (CBP) reports Narita and Haneda airports are almost fully operational and nearly all regular flights are operating as scheduled. Radiation monitoring devices will be installed at Narita Airport.
- **Future:** The National Oceanic and Atmospheric Administration forecast for March 24 reported variable onshore winds at 5 to 15 mph. The Department of Homeland Security (DHS) National Operations Center will continue to monitor this incident.

- **Other:** U.S. Department of Health and Human Services reports 120 Japanese medical teams, 48 Japanese Red Cross teams, and 12 staff members from Doctors Without Borders are operating mobile clinics and conducting assessments. In response to a GoJ request, 10,000 sets of personal protective equipment (PPE) have arrived at Yokota Air Base, near Tokyo. The PPE is en route to individuals working near the nuclear exclusion zone around the Fukushima Daiichi nuclear plant. The U.S. Food and Drug Administration (FDA) continues dialogue with Japanese officials on actions being taken to ensure the safety of imports.

*Senior Leadership Brief:*

Current Situation:

- **The last Senior Leadership Brief for this incident was distributed on March 23 at 1800.**
- **The Japanese National Police Agency reported 9,301 (no change) confirmed fatalities and 13,786 (no change) missing.** To date, only one U.S. fatality has been reported.
- The Nuclear Regulatory Commission (NRC) Protective Measures Team (PMT) continues to aggregate and assess available radiation dose rate information. Multi-day trending of available onsite monitors show slightly declining radiation dose rates over the past several days. The PMT has begun reviewing criteria for relaxing protective recommendations.
- On March 22, the Environmental Protection Agency (EPA) and the NRC restated that they do not expect to see radiation at harmful levels reaching the U.S. The EPA continues to keep all RadNet radiation monitoring data available on the current online database.
- The GoJ ordered enhanced monitoring of seawater radiation levels after radioactive substances were detected in the water near the Fukushima Daiichi Nuclear Power Plant. Research vessels departed on March 22 to collect seawater samples. The results are anticipated to be released on March 24.

Nuclear Reactor Status, Fukushima Daiichi Nuclear Power Plant:

- **TEPCO reported black smoke began rising from Unit 3 on March 23. TEPCO halted a water spraying operation and evacuated the working area as a precautionary measure. The cause of the smoke has not been determined.**
- **To combat salt accumulation, TEPCO is seeking ways to transition to a source of fresh water for use in cooling operations rather than the sea water. The U.S. Navy is prepared to provide 2 barges to the Fukushima site, each with a capacity of approximately 350,000 gallons (Source: NRC Team).**
- **All available information indicates that the majority of releases from the Fukushima site have been carried out to sea by the prevailing winds. Forecast meteorological data through March 25 indicates prolonged onshore winds, shifting offshore through midnight JST on March 25. Variable winds on March 25, including periods of onshore flow. 50% chance of rain later in the day on March 25. The most recent survey data from March 23 does not indicate any substantial change of dose measurements at the site.**
- A research vessel of the Japan Agency for Marine-Earth Science and Technology will measure the air dose rates over and collect seawater samples from the coastal waters near the nuclear facility. The seawater samples collected will be brought back and sent to the Japan Atomic Energy Agency for analysis (Source: IAEA).
- The National Institute of Radiological Sciences examined Self Defense Forces (SDF) and TEPCO employees involved in the water spraying operations and reported all individuals exhibited only low levels

of radiation.

- TEPCO announced that power lines were connected to the switchboards of all six reactor units and power has been restored to the central control room of Unit 3.

*Unit 1: (NRC priority: 4)*

Core Status: Damaged, extent undetermined  
 Core Cooling: Fire truck providing seawater to core spray line to cool core (Source: NISA); recent information indicates that a second seawater injection path through a feedwater line was established; **increased amount of water sprayed, leading to reduction in temperature of reactor pressure vessel from 400 to 230°C (Source: NRC Team per TEPCO)**  
 Primary Containment: functional (Source: JAIF)  
 Secondary Containment: Lost during hydrogen explosion  
 Other: Offsite power line connected to local substation, power restoration ongoing (Source: IAEA)

TEPCO reports that the water levels are stable and seawater injections continue. The U.S. Forces Japan (USFJ) has reported that the primary containment is intact and the secondary containment has been breached. Core damage is reported to be severe, but core cooling is stable via seawater. **The SFP temperatures remain stable.**

*Unit 2: (NRC priority: 3)*

Core Status: Damaged, extent undetermined  
 Core Cooling: Fire truck providing seawater to recirculation line to cool core (Source: NISA)  
 Primary Containment: Damaged  
 Secondary Containment: Blowout panel opened in side of reactor building to reduce hydrogen buildup; steam reported coming from hole (Source: visual/multiple media outlets)  
 Power: Offsite power restored to load-side power panel (Source: IAEA); condition of pump motors and instrumentation being evaluated (Source: IAEA); restoration is ongoing

TEPCO reports that the water levels are stable and seawater injections continue. The USFJ has reported that the primary containment is intact and the secondary containment has been breached. Core damage is reported to be severe, but core cooling is stable via seawater. **The SFP temperatures remain stable. The SFP has been filled, power has been restored, and electric water pump systems are being tested.**

*Unit 3: (NRC priority: 1)*

Core Status: Damaged, extent undetermined  
 Core Cooling: Fire truck providing seawater to recirculation line to cool core  
 Primary Containment: Damaged  
 Secondary Containment: Lost during hydrogen explosion; white smoke (Source: IAEA)  
 Spent Fuel Pool: Water sprayed from ground several times (Source: NISA); at 0250 EDT March 21 grey smoke was observed coming from the Southeast corner of the Unit 3 SFP, workers were evacuated; smoke lessened 2 hours later (Source: IAEA); news reports indicate that workers have returned; extent of fuel coverage is undetermined; **attempts to cool using an internal cooling system (Source: NRC Team per TEPCO)**  
 Other: **Black smoke was detected rising out of Unit 3 building at ~1630 (Japan) on March 23 causing temporary evacuation of workers; smoke continued through nightfall (Source: NRC Team per TEPCO)**

**Seawater injection is being converted to freshwater injection in the reactor; trucks are pumping freshwater into the SFP. Water level and pressure are stable. Power has been restored. Black smoke is being reported from Unit 3.**

*Unit 4: (NRC priority: 2)*

Core Status: Offloaded to SFP

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Primary Containment: Open for refueling operations  
Spent Fuel Pool: Pool likely dry at one point causing significant fuel damage; water sprayed into pool for cooling  
Power: External electrical cable now connected to power center; work for laying electricity cable to power center completed at ~0200 EDT March 21 (Source: NISA); **power has been restored to central control room (Source: NRC Team per TEPCO)**

**Spraying continues periodically for the SFP. Power has been restored.**

*Unit 5:* (NRC priority: 5)

Core Status: Cold shutdown

Spent Fuel Pool: **Residual Heat Removal pump failed subsequent to switchover to external power (Source: TEPCO)**

Power: **Switched from emergency diesel generator to external power supply (Source: NISA)**

The temperature and pressure remain stable in both the core and SFP.

*Unit 6:* (NRC priority: 6)

Power: **Switch from emergency diesel generator to external power supply (Source: NISA)**

The temperature and pressure remain stable in both the core and SFP.

Common Spent Fuel Pool (NRC priority: 7): Water spray started 2137 EDT March 20 (Source: NISA); water level maintained full since March 18, at 61°C (Source: NISA)

Electrical Power (NRC priority: 7): Offsite power connected to Unit 2 auxiliary transformer/distribution panel; work continues on energizing equipment in Unit 2

Dry Cask Storage: Visual inspection revealed no problems; all casks are vertical casks manufactured by Hitachi Shipbuilding (Source: RST)

#### DHS Support

##### U.S. Coast Guard (USCG)

- USCG Sector Los Angeles/Long Beach reported the arrival M/V APL KOREA into the Port of Los Angeles/Long Beach. CBP conducted a sweep of the vessel and cargo utilizing various radiation detection equipment, which resulted in some above baseline readings. All readings were below levels that would impact humans. The vessel was allowed to offload all cargo without incident. USCG, Director of the Port of Los Angeles/Long Beach and Los Angeles Police Department on scene to assist CBP as necessary.

##### U.S. Customs and Border Protection (CBP)

- The Miami Field Office received a Landing Rights Request from Miami Air for military evacuation flights from Japan. The request cites three flights with 127 passengers each. One flight was scheduled for March 21, and two on March 23.
- CBP National Targeting Center-Passenger (NTC-P) has begun reviewing DoD Military Assisted Departure flight manifests from Japan for derogatory information with a nexus to terrorism.
- **Narita and Haneda Airports are almost fully operational and nearly all regular flights are operating as scheduled. Narita Airport will install radiation measurement equipment and publish measurements on its website.**



**Transportation Security Administration (TSA)**

- Seattle-Tacoma International Airport remains the primary Aerial Port of Disembarkation (APOD) airport for DoD dependents. Travis Air Force Base is the secondary APOD, with Denver International Airport and San Francisco International Airport as the third and fourth alternate APOD, respectively.

**Immigration and Customs Enforcement (ICE)**

- ICE is providing logistics assistance on a daily basis for the U.S. Agency for International Development (USAID) in movement of personnel, emergency equipment and supplies.

**Federal Emergency Management Agency (FEMA)**

- The FEMA liaison to the EPA demobilized effective close of business on March 22. The FEMA liaison to USAID demobilized on March 21.

**Department of State (DOS)**

- **The Education and Science Ministry announced high levels of radioactive cesium in a soil sample collected 24 miles from the Fukushima plant.**
- PPE, including suits, masks, gloves, decontamination bags, and other supplies, arrived in Tokyo on March 21. The DoD and USAID Disaster Assistance Response Team transported the equipment to the SDF.

**Department of Defense (DoD)**

- **The GoJ approved deployment of an unmanned helicopter to drop water in the fuel rod holding tanks.**
- DoD continues to coordinate with DOS and DHS in the transportation of all American dependents choosing authorized departure from the affected region. DoD dependents are authorized to take commercial flights. Seattle-Tacoma is the primary entry for repatriation of DoD personnel. There are currently 11 flights through March 25.

**Environmental Protection Agency (EPA)**

- All seven EPA RadNet radiation air monitors in Guam, Hawaii, Northern Marianna Islands and Alaska are operational.

**National Oceanic and Atmospheric Administration (NOAA)**

- **Variable winds, becoming offshore at 5 to 15 mph for March 24.**

**Food and Drug Administration (FDA)**

- On March 21, FDA reported its import tracking system has been programmed to automatically flag all shipments coming from Japan for radiation screening. The FDA does not have concerns with the safety of imported food products that have already reached the U.S. from Japan and are in distribution. Based on current information, there is no risk for the U.S. food supply.

**Requests for U.S. Assistance from the Government of Japan**

- **The Japanese FSC passed an official request for a point of contact within the U.S. Government in**

case they need/want technical assistance or U.S. views on food safety issues.

- GoJ officials have requested a U.S. military salvage boat to remove underwater obstacles from Port Hachinohe in northern Aomori Prefecture. The salvage boat arrived on March 23.

#### International Response

- The IAEA held a special session of the Board of Governors on March 21. Director General Amano provided a summary of his trip to Japan. The IAEA continues to have daily press and technical briefings.

#### *USNRC Emergency Operations Center Status Update*

- NRC has issued numerous press releases related to the earthquake and tsunami. These press releases can be found online at: <http://www.nrc.gov/reading-rm/doc-collections/news/2011/>
- NRC has posted a list of frequently asked questions on their website. The questions and answers can be found in the attached document below.
- NRC is participating in ongoing discussions with the White House, Ambassador Roos, Naval Reactors, U.S. Pacific Command, and USFJ regarding precautions for and protection of U.S. citizens in Japan.
- NRC continues to work with other Federal agencies to deliver temporary cooling equipment to the Daiichi site. A shipment is anticipated to arrive on March 24.
- The NRC Commission is finalizing direction to the NRC staff to establish a senior level agency task force to conduct a methodical and systematic review of NRC processes and regulations with specific near-term and long-term objectives. **The corresponding press release is attached below.**
- A team of NRC experts supporting USAID response efforts is in Japan and has engaged with the U.S. Ambassador and his staff. A relief team is being staffed and dispatched.
- **NRC issued Information Notice 2011-05 to the U.S. nuclear power reactor fleet on March 18. The document is attached below.**
- **The GoJ has expressed to the NRC an interest in acquiring robotics, unmanned aerial vehicles, protective gear, and stockpiles of potassium iodide (KI).**
- **The commercial nuclear industry has established an industry support team to immediately facilitate industry support for TEPCO during the Fukushima event response. INPO facilitated the formation of this team. This team will complement efforts of the U.S. government and is intended to provide easy access to the capabilities of the U.S. nuclear industry and assure a timely and effective industry response to emergency needs. This team is intended to function during the mitigation and stabilization phase of the Fukushima Daiichi event. It is anticipated the commercial market structure will function during the longer-term recovery and remediation phases. The following actions have been taken to make this team operational:**
  - **An individual has been dispatched to Tokyo to coordinate requests for assistance and technical support. This individual will work closely with the NRC team already in place and function as a key interface to communicate the technical needs of TEPCO to the industry.**
  - **A support organization is in place at the INPO offices in Atlanta to facilitate the location and delivery of supplies, services and materials. This organization has close contacts with all U.S. utilities and will be expanded by March 26 with additional staffing and suppliers from the broader nuclear industry.**
  - **A technical support organization is also in place at INPO to facilitate the timely response to**

requests for technical support. This organization coordinates and channels requests for technical support to utility and industry experts, Electric Power Research Institute and suppliers as appropriate to ensure timely and effective technical advice is provided. This group works closely with the NRC and other government agencies.

Current Top Priorities:

- Continued assessment of radiological conditions, dose projections, and protective action recommendations.
- Providing technical assistance to the U.S. Ambassador in Japan and the Japanese Government.
- Coordination with other U.S. Departments and Agencies, the INPO, Bechtel, General Electric Hitachi, TEPCO, and the Japanese military.

*Protective Measures Team (PMT) Update*

Per a conference call with the Office of Science and Technology Policy, U.S. Department of Energy, the National Atmospheric Release Advisory Center (NARAC) and NRC, NARAC is running a new case on a plausible realistic case for Tokyo. Once agreed upon by the inter-agency group, this analysis will be provided to the Japanese government.

Estimates of thyroid dose, worker protection dose rate and total deposition in Japan will be calculated. PMT confirmed reports that INPO had access to one million KI pills from ANBEX, Inc. (866-463-6754) at 44 cents/pill.

The PMT is continuing efforts to develop reentry plans for short-term reentry and retrieval of personal effects. A long term reentry plan was developed on March 22 and was reviewed on March 24 with no changes recommended. The PMT is also working with the EPA with environmental data from U.S. Nuclear Power plants. Finally, the PMT reviewed containment high range readings for potential indication of core damage, and determined it appears to indicate some core melt but not likely to be representative of actual core status.

In addition to monitoring the evacuation protective action recommendations, the PMT is also cognizant of potential ingestion pathway protective action recommendations and measurements on food made by the Japanese government. Levels reported in the media exceeded the values in the FDA derived levels for action. Based on data in the media reports, the PMT agreed with Japanese action to interdict those foodstuffs. The media is also reporting that Tokyo government officials advised residents to stop giving tap water to infants based on radioactive levels.

Based on March 23 discussions it is expected that DOS will recommend to the White House that a team of relevant Federal agencies (including the NRC) be assembled to quickly look at the applicable Public Affairs Guidance in the context of a potential periodic/long-duration release in Japan and make any alternative recommendations as necessary.

**REPP Updates**

Technological Hazards Division

- Jim Kish is briefing FEMA's Regional Administrators on March 24 and the National Emergency Management Association on March 25. These briefings include implementation considerations for the FEMA REPP Program Manual and NRC Rulemaking, the issues driving NUREG-0654 revisions, and updates to REPP's exercise program.
- Michelle Ralston of the THD Outreach Team has been responding to queries from the FEMA Ask page: <https://faq.fema.gov/>. Ms. Ralston has also been populating the THD SharePoint or ESW page: [https://esw.fema.net/ESW\\_NPD\\_THD\\_default.aspx](https://esw.fema.net/ESW_NPD_THD_default.aspx) (Only FEMA employees have access.)

Staff on Detail:

- Dan Feighert (Region VIII) has been detailed to FEMA Hq.
- Bonnie Sheffield and Ken Wierman are detailed to the NRC Hq Operations Center.
- Joshua Barnes has been detailed to IMAT.
- Joseph Harworth (Region IV) and Odis Spencer (Region IV) are detailed to THD.
- Bill Bischof (Region VI) is detailed to THD.

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Please collect and continue to submit questions to Hq.

Please submit all public meetings, events, exercises, etc. to Hq to be drawn into a calendar of events that will be shared.

~~FOUO~~

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<b>Requested Personnel (DRWs)</b>
REPP Business Operations has coordinated with THD leadership for 24/7 on-call coverage.
<b>New Resource Requirements</b>
TBD
<b>Anticipated Resources / Services / Personnel (Next 48-96 hours)</b>

<b>Shortfalls / Limiting Factors</b>

<b>Future Operations Planning / Sustainment - Next 48 hours and out</b>
TBD

<b>Funding Source and Cost Data</b>
REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.

<b>Retrograde Planning &amp; Execution</b>
TBD

<b>Other Significant Information</b>		
 NRC 2011-03-19 faqs-related-to-japar	 NRC 2011-03-23 News Release 11-05E	 NRC Information Notice 2011-05.pdf

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**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 5:11 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: SITREP: March 25, 2011  
**Attachments:** SITREP 2011-03-25 REPP Japan Earthquake draft.doc

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

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~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Friday, March 25, 2011 3:56 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: SITREP: March 25, 2011

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
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Sent using BlackBerry

---

**From:** Horwitz, Steve  
**To:** Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; Hammond, Lisa <lisa.hammond@dhs.gov>; McCabe, Ron; Feighert, Dan; Fiore, Craig; Webb, Bill  
**Cc:** Sherwood, Harry; Ralston, Michelle; Hlavaty-LaPosa, Janet; Quinn, Vanessa; Coons, Albert; Purvis, James; Greten, Timothy; Sheffield, Bonnie; Wierman, Kenneth; [Freeman, Carol' <(b)(6)>]; (b)(6)  
(b)(6); Bischof, Bill; 'Simpson, John' <john.simpson@dhs.gov>  
**Sent:** Fri Mar 25 15:33:07 2011  
**Subject:** SITREP: March 25, 2011

Earthquake / Tsunami Status Update - REPP Response Operations SITREP	
Situation Reporting Period:	
Date/Time:	25 March 2011 1600 EDT
Incident:	Earthquake & Tsunami effecting nuclear power plants
Location of Incident:	Northern Japan
Incident Period:	11 March 2011; 0946 EST
POC & Phone #:	Harry Sherwood, Professional Services Branch Chief (510) 712-0132 Steve Horwitz, Outreach – Public Affairs Officer (703) 605-1208 Dan Feighert – RAC Chair, Region VIII (202) 212-1370

### Summary of Events

A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan caused catastrophic damage to buildings and infrastructure on the northern coast of the Japanese mainland, causing widespread loss of electricity. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant, and interrupted primary cooling of nuclear fuel both within the reactors and within spent fuel pools (SFP) at four of the six nuclear reactors, initiating a radiation emergency.

The Government of Japan's (GoJ) 20km (12 mile) evacuation zone remains in place around the Fukushima Daiichi Nuclear Power Plant, with a shelter-in-place order for those up to 30km (19 miles) out.

#### Current Initiatives and Actions:

##### NRCC/IMAT

- No significant changes for 03-25-11

##### THD

- No significant changes for 03-25-11

##### NOC:

- **Current:** The Japanese National Police Agency reports 10,035 (+512) confirmed fatalities and 17,443 (+1,376) people missing. The Government of Japan made a formal request for U.S. military support in three categories: Radiological Controls (anti-contamination clothing and materials, radiation detectors, and radiological control technicians); Reactor Stabilization (remotely operated vehicle capabilities and unmanned aerial vehicles); and USPACOM (U.S. Pacific Command) Cell Actions (support deployment of heavy lift unmanned helicopters and the Airborne Radiological Collection System). The Department of Defense (DoD) reports the U.S. Navy is prepared to provide two barges with a capacity of 350,000 gallons of fresh water each, needed for reactor cooling; the barges will be transferred to the Japanese outside of the exclusion zone in approximately 24-36 hours. DoD forces supporting Foreign Humanitarian Assistance (FHA) operations total 15,754 personnel. The total FHA delivered to date: 117,000 servings of water, 237,000 servings of food, and 350,000 pounds of other humanitarian assistance such as medical supplies and hygiene kits. The U.S. Coast Guard Precautionary Transit Notification (50 miles / 43 nautical miles) for vessels traveling in the vicinity of the Fukushima Daiichi Nuclear Power Plant remains in effect.
- **Future:** Tokyo Electrical Power Company (TEPCO) continues to work to restore electrical power to all six reactors at the Fukushima Daiichi Nuclear Power Plant.
- **Other:** The U.S. Nuclear Regulatory Commission (NRC) reports dose measurements at the Fukushima Daiichi Nuclear Power Plant do not indicate any substantial change. The U.S.

Environmental Protection Agency's RadNet radiation air monitors across the U.S. show typical fluctuations in background radiation levels. The levels detected are far below levels of concern. The U.S. Department of State reports the first samples of U.S. Embassy tap water have been sent for testing and are awaiting results.

Nuclear Reactor Status, Fukushima Daiichi Nuclear Power Plant:

- Temporary cooling equipment has been transported to Yokota Air Force Base. Plans are being made for the U.S. Navy to provide two fresh water barges to the Daiichi site. TEPCO expects to swap to freshwater injection (from the Dam source) on Units 1-3 on March 25.
- The NRC Reactor Safety Team has provided a set of recommendations pertaining to severe accident management strategies to the NRC team in Japan. The recommendations were coordinated with GEH, Electric Power Research Institute, Institute of Nuclear Power Operations (INPO), Naval Reactors, and Department of Energy (DOE).
- Current forecast meteorological data through March 26 indicates prolonged onshore winds, shifting offshore on the morning of March 26.
- TEPCO reported black smoke began rising from Unit 3 on March 23. TEPCO halted a water spraying operation and evacuated the working area as a precautionary measure. The cause of the smoke has not been determined.
- To combat salt accumulation, TEPCO is seeking ways to transition to a source of fresh water for use in cooling operations rather than the sea water. The U.S. Navy is prepared to provide 2 barges to the Fukushima site, each with a capacity of approximately 350,000 gallons (Source: NRC Team).
- All available information indicates that the majority of releases from the Fukushima site have been carried out to sea by the prevailing winds. **The most recent survey data, from March 25 does not indicate any substantial change of dose measurements at the site.**

*Unit 1:* (NRC priority: 4)

Core Status: Damaged, extent undetermined

Core Cooling: Fire truck providing seawater to core spray line to cool core (Source: NISA); recent information indicates that a second seawater injection path through a feedwater line was established; increased amount of water sprayed, leading to reduction in temperature of reactor pressure vessel from 400 to 172°C; **expect to swap freshwater injection from the Dam source on Units 1-3 on March 25** (Source: NRC Team per TEPCO)

Primary Containment: functional (Source: JAIF)

Secondary Containment: Lost during hydrogen explosion

Other: Offsite power line connected to local substation, power restoration ongoing (Source: IAEA)

*Unit 2:* (NRC priority: 3)

Core Status: Damaged, extent undetermined

Core Cooling: Fire truck providing seawater to recirculation line to cool core (Source: NISA); **expect to swap to freshwater injection from the Dam source on Units 1-3 on March 25** (Source: NRC Team per TEPCO)

Primary Containment: Damaged

Secondary Containment: Blowout panel opened in side of reactor building to reduce hydrogen buildup; steam reported coming from hole (Source: visual/multiple media outlets)

Power: Offsite power restored to load-side power panel (Source: IAEA); condition of pump motors and instrumentation being evaluated (Source: IAEA); restoration is ongoing



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*Unit 3: (NRC priority: 1)*

Core Status: Damaged, extent undetermined

Core Cooling: Fire truck providing seawater to recirculation line to cool core; expect to swap to freshwater injection from the Dam source on Units 1-3 on March 25 (Source: NRC Team per TEPCO)

Primary Containment: Had been thought damaged, JAIF stated that was not damaged on March 25 (Source: JAIF)

Secondary Containment: Lost during hydrogen explosion; white smoke (Source: IAEA)

Spent Fuel Pool: Water sprayed from ground several times (Source: NISA); at 0250 EDT March 21 grey smoke was observed coming from the Southeast corner of the Unit 3 SFP, workers were evacuated; smoke lessened 2 hours later (Source: IAEA); news reports indicate that workers have returned; extent of fuel coverage is undetermined; attempts to cool using an internal cooling system (Source: NRC Team per TEPCO)

Other: Black smoke was detected rising out of Unit 3 building at ~1630 (Japan) on March 23 causing temporary evacuation of workers; smoke continued through nightfall (Source: NRC Team per TEPCO)

*Unit 4: (NRC priority: 2)*

Core Status: Offloaded to SFP

Primary Containment: Open for refueling operations

Spent Fuel Pool: Pool likely dry at one point causing significant fuel damage; water sprayed into pool for cooling

Power: External electrical cable now connected to power center; work for laying electricity cable to power center completed at ~0200 EDT March 21 (Source: NISA); power has been restored to central control room (Source: NRC Team per TEPCO)

*Unit 5: (NRC priority: 5)*

Core Status: Cold shutdown

Spent Fuel Pool: Residual Heat Removal pump failed subsequent to switchover to external power (Source: TEPCO)

Power: Switched from emergency diesel generator to external power supply (Source: NISA)

*Unit 6: (NRC priority: 6)*

Power: Switch from emergency diesel generator to external power supply (Source: NISA)

Common Spent Fuel Pool (NRC priority: 7): Water spray started 2137 EDT March 20 (Source: NISA); water level maintained full since March 18, at 61°C (Source: NISA)

Electrical Power (NRC priority: 7): Offsite power connected to Unit 2 auxiliary transformer/distribution panel; work continues on energizing equipment in Unit 2

Dry Cask Storage: Visual inspection revealed no problems; all casks are vertical casks manufactured by Hitachi Shipbuilding (Source: RST)

DHS Support

U.S. Customs and Border Protection (CBP)

- Narita and Haneda Airports are almost fully operational and nearly all regular flights are operating as scheduled. Narita Airport will install radiation measurement equipment and publish measurements on its website.

Department of State (DOS)

- The Education and Science Ministry announced high levels of radioactive cesium in a soil sample collected

24 miles from the Fukushima plant.

#### Department of Defense (DoD)

- The GoJ approved deployment of an unmanned helicopter to drop water in the fuel rod holding tanks.
- DoD dependents are authorized to take commercial flights. Seattle-Tacoma is the primary entry for repatriation of DoD personnel. There are currently 11 flights through March 25.

#### Requests for U.S. Assistance from the Government of Japan

- The Japanese Food Safety Commission passed an official request for a point of contact within the U.S. Government in case they need/want technical assistance or U.S. views on food safety issues.

#### USNRC Emergency Operations Center Status Update

- NRC has issued numerous press releases related to the earthquake and tsunami. These press releases can be found online at: <http://www.nrc.gov/reading-rm/doc-collections/news/2011/>
- NRC has posted a list of frequently asked questions on their website. The questions and answers can be found in the attached document below.
- The NRC Commission is finalizing direction to the NRC staff to establish a senior level agency task force to conduct a methodical and systematic review of NRC processes and regulations with specific near-term and long-term objectives. The corresponding press release is attached below.
- NRC issued Information Notice 2011-05 to the U.S. nuclear power reactor fleet on March 18. The document is attached below.
- The GoJ has expressed to the NRC an interest in acquiring robotics, unmanned aerial vehicles, protective gear, and stockpiles of potassium iodide (KI).
- The commercial nuclear industry has established an industry support team to immediately facilitate industry support for TEPCO during the Fukushima event response. INPO facilitated the formation of this team. This team will complement efforts of the U.S. government and is intended to provide easy access to the capabilities of the U.S. nuclear industry and assure a timely and effective industry response to emergency needs. This team is intended to function during the mitigation and stabilization phase of the Fukushima Daiichi event. It is anticipated the commercial market structure will function during the longer-term recovery and remediation phases. The following actions have been taken to make this team operational:
  - An individual has been dispatched to Tokyo to coordinate requests for assistance and technical support. This individual will work closely with the NRC team already in place and function as a key interface to communicate the technical needs of TEPCO to the industry.
  - A support organization is in place at the INPO offices in Atlanta to facilitate the location and delivery of supplies, services and materials. This organization has close contacts with all U.S. utilities and will be expanded by March 26 with additional staffing and suppliers from the broader nuclear industry.
  - A technical support organization is also in place at INPO to facilitate the timely response to requests for technical support. This organization coordinates and channels requests for technical support to utility and industry experts, Electric Power Research Institute and suppliers as appropriate to ensure timely and effective technical advice is provided. This group works closely with the NRC and other government agencies.

**Current Top Priorities:**

- Continued assessment of radiological conditions, dose projections, and protective action recommendations.
- Providing technical assistance to the U.S. Ambassador in Japan and the Japanese Government.
- Coordination with other U.S. Departments and Agencies, the INPO, Bechtel, General Electric Hitachi, TEPCO, and the Japanese military.

***Protective Measures Team (PMT) Update***

Estimates of thyroid dose, worker protection dose rate and total deposition in Japan will be calculated. PMT confirmed reports that INPO had access to one million KJ pills from ANBEX, Inc. (866-463-6754) at 44 cents/pill.

The PMT is continuing efforts to develop reentry plans for short-term reentry and retrieval of personal effects. A long term reentry plan was developed on March 22 and was reviewed on March 24 with no changes recommended. The PMT is also working with the EPA with environmental data from U.S. Nuclear Power plants. Finally, the PMT reviewed containment high range readings for potential indication of core damage, and determined it appears to indicate some core melt but not likely to be representative of actual core status.

**The PMT continues to aggregate and assess available dose rate information from DOE Aerial Monitoring operations, the U.S. Navy, and TEPCO.**

**Potential ingestion pathway radiation measurements made by the Japanese government on food from regions near the Daiichi site exceed the values established by the U.S. Food and Drug Administration. Tokyo government officials advised residents to stop giving tap water to infants based on radioactive levels.**

**On March 24, the NRC recommended to Office of Science and Technology Policy, the National Atmospheric Release Advisory Center (NARAC), and DOE that NARAC run a new Tokyo case. The RASCAL source terms were based upon the following major assumptions: Unit 1: assumed 70% core melt as provided by NRC RST and a 10% release rate/day as provided by the Japanese (translated report). Unit 2: assumed 33% core melt as before and a 5 in hole in containment based on Japanese report. Unit 3: assumed 33% core melt as before and a 100% release rate/day based upon data provided by the Japanese. NRC held a teleconference with NARAC at 2230 on March 24 to confirm the above. NARAC results should be available on March 25 as directed by the White House.**

**Per IAEA 1700 UTC March 24, Radiation exposure on 3 TEPCO related workers was confirmed. They were working in the basement Unit 3 turbine building where contaminated water was on the floor. Two of the workers had severely contaminated their feet and were transferred to the Fukushima Prefecture Medical University.**

**REPP Updates**

## Technological Hazards Division

- Jim Kish briefed FEMA's Regional Administrators on March 24 and the National Emergency Management Association on March 25. These briefings include implementation considerations for the FEMA REPP Program Manual and NRC Rulemaking, the issues driving NUREG-0654 revisions, and updates to REPP's exercise program.
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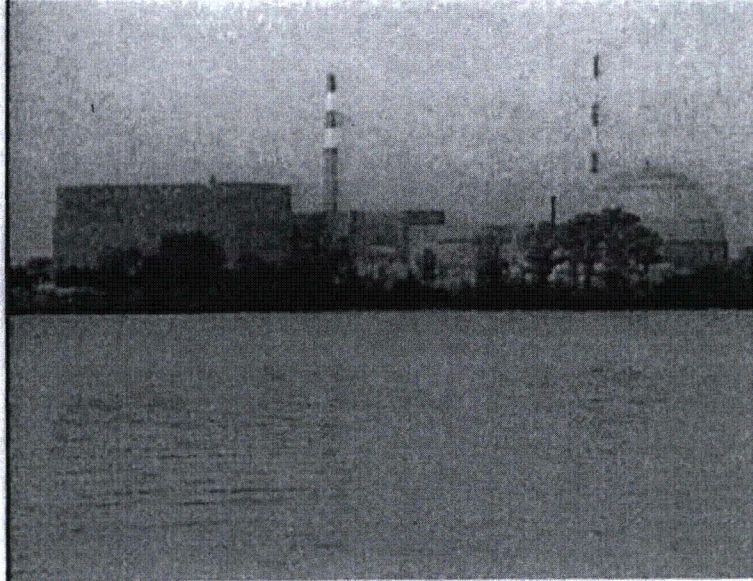
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<b>New Resource Requirements</b>		
TBD		
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<b>Shortfalls / Limiting Factors</b>		
<b>Future Operations Planning / Sustainment - Next 48 hours and out</b>		
TBD		
<b>Funding Source and Cost Data</b>		
REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.		
<b>Retrograde Planning &amp; Execution</b>		
TBD		
<b>Other Significant Information</b>		
 NRC 2011-03-19 faqs-related-to-japer	 NRC 2011-03-23 News Release 11-055	 NRC Information Notice 2011-05.pdf

# State Officials Conduct Nuclear Crisis Drill

March 23, 2011 3:40 PM

Print Share 1



**JOLIET, Ill. (CBS) —** The state today conducts a top-to-bottom nuclear crisis drill to test the state's ability to respond to a nuclear reactor in the county and the surrounding area.

CBS's Susan S. Sorenson reports that the state is conducting a nuclear crisis drill to test the state's ability to respond to a nuclear reactor in the county and the surrounding area.

From talking to the state's top nuclear officials, the state is conducting a nuclear crisis drill to test the state's ability to respond to a nuclear reactor in the county and the surrounding area.

Illinois Emergency Management Agency Director Richard ... watching Japan closely and will learn from the tragedy.

Asked what they have learned so far about the crisis in Japan, he said, "I think we will be able to present a more prepared response."

They are obviously don't have the same amount that the state is ... can always be better. He says, "I think we will be able to present a more prepared response."

He said that ... He says, "I think we will be able to present a more prepared response."

In his state, he said ... He says, "I think we will be able to present a more prepared response."

There is a potential for ... He says, "I think we will be able to present a more prepared response."

The company ... He says, "I think we will be able to present a more prepared response."

State officials made a strategic decision to keep the press ... He says, "I think we will be able to present a more prepared response."

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**From:** LIA05 Hoc  
**Sent:** Saturday, March 26, 2011 5:12 PM  
**To:** LIA06 Hoc; LIA08 Hoc; LIA04 Hoc; LIA07 Hoc; OST05 Hoc  
**Subject:** FW: Final SITREP 2011-03-26  
**Attachments:** SITREP 2011-03-26 REPP Japan Earthquake.doc

Please find the attached FEMA REPP Sitrep for today.

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

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~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Saturday, March 26, 2011 5:09 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: Final SITREP 2011-03-26

Kenneth L. Wierman Jr.  
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Sent using BlackBerry

---

**From:** Feighert, Dan  
**To:** Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; 'Hammond, Lisa' <lisa.hammond@dhs.gov>; McCabe, Ron; Feighert, Dan; Fiore, Craig; Webb, Bill  
**Cc:** Sherwood, Harry; Ralston, Michelle; Hlavaty-LaPosa, Janet; Quinn, Vanessa; Coons, Albert; Purvis, James; Greten, Timothy; Sheffield, Bonnie; Wierman, Kenneth; 'Freeman, Carol' (b)(6); (b)(6)  
<(b)(6)>; Bischof, Bill; 'Simpson, John' <john.simpson@dhs.gov>  
**Sent:** Sat Mar 26 16:15:58 2011  
**Subject:** FW: Final SITREP 2011-03-26

**From:** John D. Simpson [mailto:(b)(6)]  
**Sent:** Saturday, March 26, 2011 2:15 PM  
**To:** Dan Feighert  
**Subject:** Final SITREP 2011-03-26



~~FOUO~~

~~FOUO~~

~~FOUO~~

<b>Earthquake / Tsunami Status Update - REPP Response Operations SITREP</b>	
Situation Reporting Period:	
<b>Date/Time:</b>	26 March 2011 1600 EDT
<b>Incident:</b>	Earthquake & Tsunami effecting nuclear power plants
<b>Location of Incident:</b>	Northern Japan
<b>Incident Period:</b>	11 March 2011; 0946 EST
<b>POC &amp; Phone #:</b>	Albert Coons, Team Lead, 202-309-6520 Dan Feighert – RAC Chair, Region VIII (202) 212-1370 Bill Bischof, FEMA Region VI, Public Outreach Specialist John D. Simpson, FEMA Region V, Public Outreach Specialist
<b>Summary of Events</b>	

~~FOUO~~

~~FOUO~~

~~FOUO~~

A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan caused catastrophic damage to buildings and infrastructure, and widespread loss of electricity, on the northern coast of the Japanese mainland. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant, and interrupted primary cooling of nuclear fuel both within the reactors and within spent fuel pools (SFP) at four of the six nuclear reactors.

The Japanese national government instructed evacuation for local residents within a 20km radius of the site boundary and sheltering in place out to 30 km. IAEA confirms a no-fly zone out to 30 km around the Fukushima Daiichi plant. Japanese government officials have recommended to residents living within 20 to 30 km of the site to voluntarily evacuate their homes – not because of changing conditions at the site – but because of increasingly difficult logistical issues.

Current Initiatives and Actions:

NRCC/IMAT

- No significant changes for 03-26-11

THD

- No significant changes for 03-26-11

NOC:

- **Current:** The Japanese National Police Agency reports 10,151 (+116) confirmed fatalities and 17,053 (-390) people missing. Tokyo Electrical Power Company (TEPCO) has restored electrical power to all six reactors at the Fukushima Daiichi Nuclear Power Plant. They have also restored fresh water flow to reactors 1 and 3; a switch to fresh water is underway for Unit 2. The US Nuclear Regulatory Commission (NRC) reports the Protective Measures Team (PMT), assessing available dose rate information from 25-26 Mar, shows slightly declining dose rates at Fukushima Daiichi Nuclear Power Plant's front gate. The PMT drafted a short-term re-entry guide for the NRC Team in Japan regarding members of the public. The International Atomic Energy Agency and the United Nations Food and Agriculture Organization will send three technical experts to work with Japanese officials to analyze food and agriculture samples. The Department of Defense reports they have flown 1,113 humanitarian assistance flights in support of Operation TOMODACHI. Operation PACIFIC PASSAGE has transported 4,408 passengers to destinations in the US.
- **Future:** TEPCO reports no rolling blackouts will be scheduled for 26-27 Mar. Current meteorological data indicates winds are shifting offshore, from northwest to west, mid-day today and continuing offshore through Tuesday, 29 Mar. The Department of Homeland Security National Operations Center will continue to monitor this event and will publish the next Update Report at 1800 EDT.
- **Other:** The US Environmental Protection Agency's RadNet radiation air monitors across the US show typical fluctuations in background radiation levels. The levels detected remain far below levels of concern. The US Department of Energy reports many other foreign governments have advised their citizens in Japan to voluntarily evacuate areas within 50 miles from the Fukushima Daiichi Nuclear Power Plant, consistent with US recommendations.

Nuclear Reactor Status, Fukushima Daiichi Nuclear Power Plant:

The NRC Reactor Safety Team has provided a set of recommendations pertaining to severe accident management strategies to the NRC team in Japan. The recommendations were coordinated with GEH, EPRI, INPO, Naval Reactors, and DOE.

The U.S. Department of Energy and the U.S. Environmental Protection Agency are the Federal communicators for questions regarding possible domestic impacts from the events in Japan and on domestic monitoring.

The Commission has established a senior level agency task force to conduct a methodical and systematic review of NRC processes and regulations with specific near-term and long-term objectives.

**Unit 1 – (NRC Priority 1)**

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO). The volume of sea water injected to cool the core has left enough salt to fill the lower plenum to the core plate (Source: GEH, US Industry). Vessel temperatures 149C at bottom drain, 197C at FW nozzle (Source: NISA) RPV at 65.7 psig (increasing trend), DW and torus pressure at 40 psig (decreasing trend) (Source: NISA).

**Core Cooling:** Fresh water injection initiated at 1537 hrs JDT 3/25, injecting through FW 120l/min or 31.7 g/m (Source: NISA). Recirculation pump seals have likely failed. (Source: GEH)

**Primary Containment:** Not damaged, 40 psig (TEPCO was considering venting on 3/24)

**Secondary Containment:** Severely damaged (hydrogen explosion)

**Spent Fuel Pool:** Fuel covered, no seawater injected - (Source: JAIF, NISA, TEPCO). The fuel in this pool is all over 12 years old and very little heat input (<0.1 MW) (Source: DOE).

**Rad Levels:** DW 4780 R/hr, Torus 3490 R/hr (source instruments unknown), Outside plant: 16mR/hr at main gate (slight trend downward) (Source: MEXT)

**Power:** Electric power available, equipment testing in progress (Source: JAIF, NISA, TEPCO) External AC power to the Main Control Room of Unit 1 became available at 11:30 JDT 3/24/2011. Lighting operating in Main Control Room.

**Unit 2 – (NRC Priority 2)**

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO). Suspect the volume of sea water injected to cool the core has left enough salt to fill the lower plenum to the core plate (Source: GEH, US Industry). Bottom head temperature 104C, feed water nozzle temperature 107C (Source: JAIF, NISA, TEPCO).

**Core Cooling:** Fresh water with boric acid injection as of 10:10 A.M. on March 26 (TEPCO), recirculation pump seals have likely failed. (Source: GEH)

**Primary Containment:** Damage suspected (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO), hole in refuel floor siding (Source: visual)

**Spent Fuel Pool:** Fuel covered, seawater injected on March 20, fuel pool temperature 52C (Source: JAIF, NISA, TEPCO)

**Rad Levels:** DW 4560 R/hr; Torus 154 R/hr (source instruments unknown); Outside plant: 16mR/hr at main gate (slight trend downward) (Source: MEXT)

**Power:** External AC power has reached the unit, checking integrity of equipment before energizing.

**Unit 3 – (NRC Priority 3)**

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO). Suspect the volume of sea water injected to cool the core has left enough salt to likely fill the lower plenum to the core plate (Source: GEH, US Industry). Bottom head temperature 111C, FW nozzle temperature: Unreliable (Source: JAIF, NISA 1800 JDT 3/25/11, TEPCO)

**Core Cooling:** Freshwater injection via fire line initiated 1802 JDT 3/25/11 (Source: NISA). Sea water injection through RHR. Recirculation pump seals have likely failed. (Source: GEH)

**Primary Containment:** Damage suspected (Source: NISA, TEPCO). "Not damaged" (Source: JAIF).

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level (Source: JAIF, NISA, TEPCO), spraying and pumping sea water into the SFP via the Cooling and Purification Line (Source: NISA)

**Rad Levels:** DW 5100 R/hr, torus 150 R/hr (INPO source instruments unknown); Outside plant: 16mR/hr at main gate (slight trend downward) (Source: MEXT); 100 R/hr debris outside Rx building (covered).

**Power:** External AC power has reached the unit, checking integrity of equipment before energizing. Lighting operating in Main Control Room.

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**Unit 4 – (NRC Priority 4)**

**Core Status:** Offloaded 105 days at time at accident (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Not necessary (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Not applicable (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Severely damaged, hydrogen explosion. (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level, spraying with sea water, hydrogen from the fuel pool exploded, fuel pool is cool heating up very slowly (Source: JAIF, NISA, TEPCO). Temperature is unknown (Source: NISA). Video was to be taken of SFP pool on 3/24 (Source: unverified)

**Power:** External AC power has reached the unit, checking electrical integrity of equipment before energizing. (Source: JAIF, NISA, TEPCO)

**Unit 5 – (NRC Priority 5)**

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, RHR pump repaired, temperature 37.9 C (Source: JAIF, NISA, TEPCO)

**Power:** External AC power supplying the unit, diesel generators available. (Source: JAIF, NISA, TEPCO)

**Unit 6 – (NRC Priority 6)**

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, temperature 22 C (Source: JAIF, NISA, TEPCO)

**Power:** External AC power supplying the unit, diesel generators available. (Source: JAIF, NISA, TEPCO)

**Common Spent Fuel Pool (NRC priority: 7):** 6,000 bundles (Source: GEH); water level maintained at 53°C (Source: NISA); water spray started at 2137 EDT March 20 (Source: NISA); normal cooling started 1805 JDT 3/24/2011 (Source: NISA)

**Electrical Power (NRC priority: 7):** Offsite power connected to Unit 2 auxiliary transformer /distribution panel; work continues on energizing equipment in Unit 2.

**Dry Cask Storage:** Visual inspection revealed no problems. All casks are vertical casks manufactured by Hitachi Shipbuilding (Source: RST)

On March 25, 2011, NRC assigned revised priorities to Units 1 through 4. This was based on analysis by the Reactor Safety Team. Unit 1 is priority 1 based on the fact that primary containment integrity can still be preserved if the responders take the correct actions to inject to the RPV and Primary containment. Unit 2 is priority 2 because of the apparent damage to primary containment and the other barriers to release. This damage requires continued attention to cool the core and provide water to the primary containment to minimize potential for release. Unit 3 is priority 3 because primary containment may be okay, but continued attention is required to pursue core cooling and injection. Unit 4 is priority 4 because progress has been made in addressing the spent fuel pool heat removal requirements and the SFP area has indicated temperatures of less than 100 °C.

DHS Support

U.S. Customs and Border Protection (CBP)

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- Narita and Haneda Airports are almost fully operational and nearly all regular flights are operating as scheduled. Narita Airport will install radiation measurement equipment and publish measurements on its website.

#### Department of State (DOS)

- The Education and Science Ministry announced high levels of radioactive cesium in a soil sample collected 24 miles from the Fukushima plant.

#### Department of Defense (DoD)

- The GoJ approved deployment of an unmanned helicopter to drop water in the fuel rod holding tanks.
- DoD dependents are authorized to take commercial flights. Seattle-Tacoma is the primary entry for repatriation of DoD personnel. There are currently 11 flights through March 25.

#### Requests for U.S. Assistance from the Government of Japan

- The Japanese Food Safety Commission passed an official request for a point of contact within the U.S. Government in case they need/want technical assistance or U.S. views on food safety issues.

#### *USNRC Emergency Operations Center Status Update*

- NRC has issued numerous press releases related to the earthquake and tsunami. These press releases can be found online at: <http://www.nrc.gov/reading-rm/doc-collections/news/2011/>
- NRC has posted a list of frequently asked questions on their website. The questions and answers can be found in the attached document below.
- The NRC Commission is finalizing direction to the NRC staff to establish a senior level agency task force to conduct a methodical and systematic review of NRC processes and regulations with specific near-term and long-term objectives. The corresponding press release is attached below.
- NRC issued Information Notice 2011-05 to the U.S. nuclear power reactor fleet on March 18. The document is attached below.
- The GoJ has expressed to the NRC an interest in acquiring robotics, unmanned aerial vehicles, protective gear, and stockpiles of potassium iodide (KI).
- The commercial nuclear industry has established an industry support team to immediately facilitate industry support for TEPCO during the Fukushima event response. INPO facilitated the formation of this team. This team will complement efforts of the U.S. government and is intended to provide easy access to the capabilities of the U.S. nuclear industry and assure a timely and effective industry response to emergency needs. This team is intended to function during the mitigation and stabilization phase of the Fukushima Daiichi event. It is anticipated the commercial market structure will function during the longer-term recovery and remediation phases. The following actions have been taken to make this team operational:
  - An individual has been dispatched to Tokyo to coordinate requests for assistance and technical support. This individual will work closely with the NRC team already in place and function as a key interface to communicate the technical needs of TEPCO to the industry.
  - A support organization is in place at the INPO offices in Atlanta to facilitate the location and delivery of supplies, services and materials. This organization has close contacts with all U.S. utilities and will be expanded by March 26 with additional staffing and suppliers from the broader nuclear industry.

- A technical support organization is also in place at INPO to facilitate the timely response to requests for technical support. This organization coordinates and channels requests for technical support to utility and industry experts, Electric Power Research Institute and suppliers as appropriate to ensure timely and effective technical advice is provided. This group works closely with the NRC and other government agencies.

Current Top Priorities:

- Continued assessment of radiological conditions, dose projections, and protective action recommendations.
- Providing technical assistance to the U.S. Ambassador in Japan and the Japanese Government.
- Coordination with other U.S. Departments and Agencies, the INPO, Bchtel, General Electric Hitachi, TEPCO, and the Japanese military.

*Protective Measures Team (PMT) Update*

Estimates of thyroid dose, worker protection dose rate and total deposition in Japan will be calculated. PMT confirmed reports that INPO had access to one million KI pills from ANBEX, Inc. (866-463-6754) at 44 cents/pill.

The PMT is continuing efforts to develop reentry plans for short-term reentry and retrieval of personal effects. A long term reentry plan was developed on March 22 and was reviewed on March 24 with no changes recommended. The PMT is also working with the EPA with environmental data from U.S. Nuclear Power plants. Finally, the PMT reviewed containment high range readings for potential indication of core damage, and determined it appears to indicate some core melt but not likely to be representative of actual core status.

The PMT continues to aggregate and assess available dose rate information from DOE Aerial Monitoring operations, the U.S. Navy, and TEPCO.

Potential ingestion pathway radiation measurements made by the Japanese government on food from regions near the Daiichi site exceed the values established by the U.S. Food and Drug Administration. Tokyo government officials advised residents to stop giving tap water to infants based on radioactive levels.

On March 24, the NRC recommended to Office of Science and Technology Policy, the National Atmospheric Release Advisory Center (NARAC), and DOE that NARAC run a new Tokyo case. The RASCAL source terms were based upon the following major assumptions: Unit 1: assumed 70% core melt as provided by NRC RST and a 10% release rate/day as provided by the Japanese (translated report). Unit 2: assumed 33% core melt as before and a 5 in hole in containment based on Japanese report. Unit 3: assumed 33% core melt as before and a 100% release rate/day based upon data provided by the Japanese. NRC held a teleconference with NARAC at 2230 on March 24 to confirm the above. NARAC results should be available on March 25 as directed by the White House.

Per IAEA 1700 UTC March 24, Radiation exposure on 3 TEPCO related workers was confirmed. They were working in the basement Unit 3 turbine building where contaminated water was on the floor. Two of the workers had severely contaminated their feet and were transferred to the Fukushima Prefecture Medical University.

**REPP Updates**

Technological Hazards Division

- Jim Kish briefed FEMA's Regional Administrators on March 24 and the National Emergency Management Association on March 25. These briefings include implementation considerations for the FEMA REPP Program Manual and NRC Rulemaking, the issues driving NUREG-0654 revisions, and updates to REPP's exercise program.
- Michelle Ralston of the THD Outreach Team has been responding to queries from the FEMA Ask page: <https://faq.fema.gov/>. Ms. Ralston has also been populating the THD SharePoint or ESW page: <https://esw.fema.net/esw/NPD/THD/default.aspx> (Only FEMA employees have access.)

Staff on Detail:

- Dan Feighert (Region VIII) has been detailed to FEMA HQ.
- Bonnie Sheffield and Ken Wierman are detailed to the NRC HQ Operations Center.
- Joshua Barnes has been detailed to IMAT.
- Bill Bischof (Region VI) is detailed to THD.
- John Simpson (Region V) is detailed to THD.

**NOTE to readers that ~~FOUO~~ material should not be shared outside of the federal government.** Please refer inquiries regarding exercise reports to the NRC Reading Room: <http://nrc.gov/reading-rm.html>

Please collect and continue to submit questions to HQ.

Please submit all public meetings, events, exercises, etc. to HQ to be drawn into a calendar of events that will be shared.

**Requested Personnel (DRWs)**

REPP Business Operations has coordinated with THD leadership for 24/7 on-call coverage.
<b>New Resource Requirements</b>
TBD
<b>Anticipated Resources / Services / Personnel (Next 48-96 hours)</b>
<b>Shortfalls / Limiting Factors</b>
<b>Future Operations Planning / Sustainment - Next 48 hours and out</b>
TBD
<b>Funding Source and Cost Data</b>
REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.
<b>Retrograde Planning &amp; Execution</b>
TBD
<b>Other Significant Information</b>



# State Officials Conduct Nuclear Crisis Drill

March 23, 2011 3:40 PM

Print Share 1



**JOHN BRUBAKER** - The state's nuclear crisis drill was a success, with officials from across the state participating in the exercise and demonstrating their readiness to respond to a nuclear emergency.

The exercise was a joint effort between the state and the federal government, and was designed to test the state's ability to coordinate with federal agencies in the event of a nuclear emergency.

Participants included state officials from various agencies, as well as federal officials from the Department of Energy and the Federal Emergency Management Agency. The exercise was held in a secure location and was conducted in a highly controlled environment.

Illinois Emergency Management Agency Director James C. Hines said the exercise was a "great success" and that the state is well-prepared to respond to a nuclear emergency.

A key objective of the exercise was to ensure that state officials are able to communicate effectively with federal agencies and to coordinate their response to a nuclear emergency.

The exercise was a significant step in the state's efforts to improve its nuclear emergency response capabilities and to ensure that it is able to protect the public in the event of a nuclear emergency.

The exercise was a success and demonstrated the state's ability to coordinate with federal agencies in the event of a nuclear emergency.

In this exercise, state officials participated in a series of drills that simulated a nuclear emergency and tested their ability to respond to such a crisis.

The exercise was a success and demonstrated the state's ability to coordinate with federal agencies in the event of a nuclear emergency.

The exercise was a success and demonstrated the state's ability to coordinate with federal agencies in the event of a nuclear emergency.

State officials will continue to work with federal agencies to improve their nuclear emergency response capabilities and to ensure that they are able to protect the public in the event of a nuclear emergency.

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**From:** Wierman, Kenneth <kenneth.wierman@dhs.gov>  
**Sent:** Wednesday, March 30, 2011 4:28 PM  
**To:** LIAOS Hoc  
**Subject:** Fw: SITREP 20110329  
**Attachments:** SITREP 2011-03-30 REPP Japan Earthquake.doc

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry: (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

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**From:** Simpson, John <john.simpson@dhs.gov>  
**To:** Simpson, John <john.simpson@dhs.gov>; Colman, Steve <steve.colman@dhs.gov>; Thomson, Rebecca <rebecca.thomson@dhs.gov>; Hammons, Darrell <darrell.hammons@dhs.gov>; Burnside, Conrad <conrad.burnside@dhs.gov>; King, William <William.King@dhs.gov>; Hammond, Lisa <lisa.hammond@dhs.gov>; McCabe, Ron <ron.mccabe@dhs.gov>; Feighert, Dan <dan.feighert@dhs.gov>; Fiore, Craig <craig.fiore@dhs.gov>; Webb, Bill <bill.webb@dhs.gov>  
**Cc:** Sherwood, Harry <harry.sherwood@dhs.gov>; Ralston, Michelle <Michelle.Ralston@dhs.gov>; Hlavaty-LaPosa, Janet <janet.hlavaty-laposa@dhs.gov>; Quinn, Vanessa <Vanessa.Quinn@dhs.gov>; Coons, Albert <albert.coons@dhs.gov>; Purvis, James <james.purvis@dhs.gov>; Greten, Timothy <Timothy.Greten@dhs.gov>; Sheffield, Bonnie <Bonnie.Sheffield@dhs.gov>; Wierman, Kenneth <kenneth.wierman@dhs.gov>; Freeman, Carol (CTR) <Carol.Freeman@associates.dhs.gov>; Noecker, Robert <(b)(6)>; Bischof, Bill <bill.bischof@dhs.gov>; Simpson, John <john.simpson@dhs.gov>; Jeremy, David <David.Jeremy@dhs.gov>; Fontenot, Rebecca <Rebecca.Fontenot@dhs.gov>; DeFelice, Anthony C <anthony.defelice@dhs.gov>; Horton, Douglas A <Douglas.Horton@dhs.gov>; Howe, Michael <Michael.Howe@dhs.gov>; Horwitz, Steve <steve.horwitz@dhs.gov>; Partlow, Courtney <(b)(6)>  
**Sent:** Wed Mar 30 16:26:59 2011  
**Subject:** RE: SITREP 20110329

The FEMA THD SITREP for March 30, 2011 is attached.

<b>Earthquake / Tsunami Status Update – REPP Response Operations SITREP</b>
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<b>Situation Reporting Period:</b>
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**Date:** 30 March 2011; 1600 EDT  
**Incident:** Earthquake & Tsunami effecting nuclear power plants  
**Location of Incident:** Northern Japan  
**Incident Period:** 11 March 2011; 0946 EST  
**POC & Phone #:** Steve Horwitz, Outreach – Public Affairs Officer (703) 605-1208  
 Dan Feighert – RAC Chair, Region VIII (202) 212-1370  
 John D. Simpson – Public Outreach Specialist (312) 718-1991

<b>Summary of Events</b>
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A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan caused catastrophic damage to buildings and infrastructure, and widespread loss of electricity, to the northern coast of Japan. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant, and interrupted primary cooling of nuclear fuel both within the reactors and within spent fuel pools (SFP), at four of the six nuclear reactors, initiating a radiation emergency.

The Japanese national government instructed evacuation for local residents within a 20 km radius of the site boundary and sheltering in place out to 30 km. The International Atomic Energy Agency (IAEA) confirms a no-fly zone out to 30 km around the Fukushima Daiichi plant. Japanese government officials have recommended to residents living within 20 to 30 km of the site to voluntarily evacuate their homes – not because of changing conditions at the site – but because of increasingly difficult logistical issues.

**Current Initiatives and Actions:**

The current protective action recommendation for U.S. citizens residing within 50 miles (80 km) of the Fukushima Daiichi site is to evacuate.

The U.S. Environmental Protection Agency (EPA) and the Department of Energy (DOE) are the Federal communicators for questions regarding possible domestic impacts from the events in Japan and on domestic monitoring.

The Nuclear Regulatory Commission (NRC) has established a senior level agency task force to conduct a methodical and systematic review of NRC processes and regulations with specific near-term and long-term objectives.

**NRCC/IMAT**

- No significant changes for 03-30-11

**THD**

- No significant changes for 03-30-11

**NOC:**

- **Current: The Japanese National Police Agency reports 11,257 (+194) confirmed fatalities and 16,344 (-914) people missing. The DOE reports the Tokyo Electric Power Company**

(TEPCO) Fukushima Daiichi Plant Operator plans to drain the basements of Unit Two and Unit Three, and transfer the leaked water into turbine condensers which are already full of water and will first have to be transferred to other tanks in the system. The IAEA provided the following status regarding the Fukushima Daiichi Plant: fresh water has been continuously injected into the Reactor Pressure Vessels of Units One, Two and Three; some water has been discovered within trenches directly outside the closed pumping system. An investigation is underway as to how the water accumulated in the trenches. The Nuclear Safety Commission believed the water to be either condensed vapor emitted from containment vessels or from water being sprayed onto the damaged reactor buildings to aid in the cooling of spent fuel.

- Future: Current meteorological data indicates winds are primarily from the west (headed offshore) and should generally continue in this direction through March 30.
- Other: The Federal Emergency Management Agency reports the Region X Response Division and Mission Support Divisions continue to assist the National Incident Management Assistance Team and the EPA in air monitoring operations.

#### Status of NRC Licensee and Agreement State Facilities

- Air sample and standing water sample results from U.S. nuclear plant licensees are being entered into a password protected database established by the Nuclear Energy Institute. NRC and federal partners have access to the plant data.

#### Industry Consortium / Contractor Activities

- The NRC/Consortium call has been re-established. The request has been made that the Site Team in Japan act as a clearinghouse reviewer of requests to avoid duplication. This will be shared with the other stakeholders in order to maintain a "single-list" for operational consistency. The call will take place at 2000 EDT.
- The Shaw Group has entered into an agreement with Westinghouse, Babcock and Wilcox, and Toshiba to provide support to TEPCO. They are ramping up staff in Japan and have developed a program with short, medium, and long range goals. The short term effort includes expertise in BWRs and environmental remediation.

#### Nuclear Reactor Status, Fukushima Daiichi Nuclear Power Plant:

- One train of temporary cooling equipment has been transported to Yokota Air Force Base. Two fresh water barges from the U.S. Navy are en route to the Daiichi site.
- On March 25, NRC assigned revised priorities to Units 1 through 4. This was based on analysis by the Reactor Safety Team. Unit 1 is priority 1 because the primary containment integrity can still be preserved if the responders take the correct actions to inject to the RPV and Primary containment. Unit 2 is priority 2 because of the apparent damage to primary containment and the other barriers to release. This damage requires continued attention to cool the core and provide water to the primary containment to minimize potential for release. Unit 3 is priority 3, because primary containment may be okay but continued attention is required to pursue core cooling and injection. Unit 4 is priority 4 because progress has been made in addressing the spent fuel pool heat removal requirements and the SFP area has indicated temperatures of less than 100°C.

*Unit 1 - (NRC Priority: 1)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO); the volume of sea water injected to cool the core has left enough salt to fill the lower plenum to the core plate (Source: GEH, U.S. Industry); vessel temperatures 138°C at bottom drain, 309°C at FW nozzle (Source: NISA-3/29); RPV at 60.5 psig (Source: JAIF 3/29), DW and torus pressure at 26.6 psig (Source: NISA 3/29)

**Core Cooling:** Fresh water injection initiated at 1537 JST on March 25, injecting through FW 37.4 gpm (Source: NISA); recirculation pump seals have likely failed (Source: GEH)

**Primary Containment:** Functional, 26.6 psig (Source: JAIF 3/29); pumping water from turbine building basement to main condenser (Source: IAEA 3/29)

**Secondary Containment:** Severely damaged (hydrogen explosion)

**Spent Fuel Pool:** Temperature and level unconfirmed; white smoke being emitted as of 0630 JST on March 29 (Source: TEPCO 3/29); considering injecting water (Source: JAIF 3/28); all fuels in this pool are over 12 years old and have very little heat input (<0.1 MW) (Source: DOE)

**Rad Levels:** DW 3370 R/hr. Torus 2110 R/hr (source instruments unknown); outside plant: 12 mR/hr at main gate (slight trend downward) (Source: MEXT)

**Power:** On external power (Source: NISA); equipment testing in progress (Source: JAIF, NISA, TEPCO); external AC power to the Main Control Room of Unit 1 became available at 1130 JST on March 24; lighting operating in Main Control Room

*Unit 2 - (NRC Priority: 2)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO); bottom head temperature 120° C, feed water nozzle temperature 153.7°C (Source: NISA); RVP pressure -3.9 psig (Source: JAIF 3/29); DW pressure 0 psig (Source: NISA 3/29)

**Core Cooling:** Fresh water with boric acid injection as of 1010 JST on March 26 (Source: TEPCO); 7 m<sup>3</sup>/h or 31 gpm (Source: NISA 3/29); recirculation pump seals have likely failed (Source: GEH)

**Primary Containment:** Damage suspected (Source: JAIF, NISA, TEPCO). Pressure: 0 psig (Source: NISA 3/29)

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO), blowout panels removed from side of reactor building to reduce hydrogen buildup (Source: visual)

**Spent Fuel Pool:** Fuel covered, freshwater periodically injected via fuel pool cooling system (Source: TEPCO 3/29); fuel pool temperature 46°C (Source: NISA 3/29); pool may be overflowing based on observations of water in adjacent areas (Source: NRC Team); white smoke being emitted as of 1830 EDT on March 27 (Source: IAEA 3/28) - confirmed (Source: TEPCO 3/29)

**Rad Levels:** DW 4050 R/hr; Torus 139 R/hr (source instruments unknown); outside plant: 12 mR/hr at main gate (slight trend downward) (Source: MEXT)

**Power:** External AC power has reached the unit; checking integrity of equipment before energizing; power distribution panels connected (IAEA 3/27)

*Unit 3 - (NRC Priority: 3)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO); bottom head temperature 121°C, FW nozzle temperature: 62°C (Source: NISA 3/29); RVP pressure: 3.7 psig (Source: JAIF 3/29); RPV level ~2/3 TAF (Source: IAEA 3/28); DW pressure 0.97 psig (Source: IAEA 3/28)

**Core Cooling:** Freshwater injection via fire line initiated, 52.8 gpm via temporary electrical pump on 1802 JST March 25 (Source: IAEA 3/29); recirculation pump seals have likely failed (Source: GEH)

**Primary Containment:** Japanese report functional, NRC assessment is that damage is suspected

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level (Source: JAIF, NISA, TEPCO), spraying ocean water periodically into SFP (Source: TEPCO 3/29); white smoke being emitted as of 0630 JST on March 29 (Source: NISA 3/29)

**Rad Levels:** DW 3150 R/hr, torus 124 R/hr (INPO source instruments unknown); outside plant: 12 mR/hr at main gate (slight trend downward) (Source: MEXT); 100 R/hr debris outside Rx building (covered)

**Power:** External AC power has reached the unit; checking integrity of equipment before energizing; lighting operating in Main Control Room

*Unit 4 - (NRC Priority: 4)*

**Core Status:** Offloaded 105 days at time of accident (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Not necessary (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Not applicable (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Severely damaged from hydrogen explosion (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level, spraying with sea water, hydrogen from the fuel pool exploded, fuel pool is cool heating up very slowly (Source: JAIF, NISA, TEPCO); temperature is unknown (Source: NISA); planning to pump fresh water (Source: IAEA 3/28). White smoke confirmed 0630 JST on March 29 (Source: NISA 3/29)

**Power:** External AC power has reached the unit; checking electrical integrity of equipment before energizing (Source: JAIF, NISA, TEPCO); power distribution panels connected (IAEA 3/27)

*Unit 5 - (NRC Priority: 5)*

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO), temperature 35°C (Source: JAIF 3/29)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, RHR pump repaired, temperature 39°C (Source: JAIF 3/29)

**Power:** External AC power supplying the unit, diesel generators available (Source: JAIF, NISA, TEPCO)

*Unit 6 - (NRC Priority: 6)*

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO), temperature 38°C (Source: JAIF 3/29)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, temperature 22°C (Source: JAIF 3/29)

**Power:** External AC power supplying the unit, diesel generators available (Source: JAIF, NISA, TEPCO)

**Common Spent Fuel Pool** (NRC priority: 7): 6,000 bundles (Source: GEH); water level maintained at 39°C (Source: IAEA 3/28); normal cooling started 1805 JST March 24 (Source: NISA)

**Electrical Power** (NRC priority: 7): Offsite power connected to Unit 2 auxiliary transformer/distribution panel; work continues on energizing equipment in Unit 2

**Dry Cask Storage:** Visual inspection revealed no problems; all casks are vertical casks manufactured by Hitachi Shipbuilding (Source: RST)

*USNRC Emergency Operations Center Status Update*

- NRC has issued numerous press releases related to the earthquake and tsunami. These press releases can be found online at: <http://www.nrc.gov/reading-rm/doc-collections/news/2011/>
- NRC has posted a list of frequently asked questions on their website. The questions and answers can be found in the attached document below.

- IAEA reported an earthquake of magnitude 6.5 occurred at 2223 UTC March 27 near the east coast of Honshu, Japan. The Onagawa Nuclear Power Plant is the closest plant to the epicenter. The three reactor units at Onagawa Nuclear Power Plant remain in cold shutdown following March 11 earthquake. No abnormal radiation readings observed on the Onagawa site. As of 0230 UTC March 28, no report of any issue at Fukushima Daiichi, Fukushima Daini, or Tokai Nuclear Power Plants related to this earthquake.
- **In its March 29 Situation Report #30, the U.S. Department of State indicated that the Japan Task Force has disbanded. No further situation reports will be issued from the State Department. NRC believes that this change is the result of sufficient information flow through other channels.**

Current Top Priorities:

- Continued assessment of radiological conditions, dose projections, and protective action recommendations.
- Providing technical assistance to the U.S. Ambassador in Japan and the Japanese Government, **including technical assessment on Unit 1 drywell status.**
- Coordination with other U.S. Departments and Agencies, INPO, Bechtel, GEH, TEPCO, and the Japanese military.

*Protective Measures Team (PMT) Update*

On March 30, the PMT received a request from the NRC Japan Team for dose projections using (1) current conditions, and (2) pessimistic scenario (not worst case), to address return of U.S. personnel to metropolitan Tokyo after April 15. Projections needed to U.S. Ambassador to Japan by April 6 - draft requested by April 3. PMT responded that this would require a National Atmospheric Release Advisory Center (NARAC) run by DOE. NRC will forward this request to the White House and await direction to develop and run dose models. NRC is to develop the source term and NARAC is to run scenario.

The PMT continues to aggregate and assess available dose rate information from DOE Aerial Monitoring operations, the U.S. Navy, and TEPCO. Multi-day trending of available onsite monitors shows slightly declining dose rates over the past several days. Based upon information received on March 28, dose rates at the west gate were about 12 mR/hr (Source: MEXT). This shows a continued slight trend downward. Historical Ministry of Education, Culture, Sports, Science and Technology (MEXT) data does appear to show slight increases in dose rates (2 -- 3 mR/hr) when wind shifts such that monitors are downwind of the site.

The PMT evaluated information from TEPCO and NISA regarding levels of Plutonium sampled on site. The levels ( $5.4 \times 10^{-1}$  Bq/kg) are very low, and below background levels applicable to the eastern range of the Rocky Mountains (in the U.S.). This measurement falls within a range of known plutonium background levels in Japan.



**REPP Updates**

Technological Hazards Division

- THD SharePoint page: <https://esw.fema.net/esw/NPD/THD/default.aspx> (Only FEMA employees have access.)

Staff on Detail:

- Dan Feighert (Region VIII) has been detailed to FEMA Hq.
- Bonnie Sheffield and Ken Wierman are detailed to the NRC Hq Operations Center.
- John Simpson (Region V) is detailed to THD.

**NOTE to readers that FOUO material should not be shared outside of the federal government.**  
Please refer inquiries regarding exercise reports to the NRC Reading Room: <http://nrc.gov/reading-rm.html>

Please collect and continue to submit questions to Hq.

Please submit all public meetings, events, exercises, etc. to Hq to be drawn into a calendar of events that will be shared.

**Requested Personnel (DRWs)**

REPP Business Operations has coordinated with THD leadership for 24/7 on-call coverage.

**Funding Source and Cost Data**

REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.

**Other Significant Information**

  
NRC 2011-03-19  
faqs-related-to-japan

**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:25 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW:

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

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**DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY**

**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 2:24 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Thanks.

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:55 PM  
**To:** Williams, Kevin  
**Subject:** FW:

Region	RAC Chair	Email	Phone
1	Steve Colman	Steve.Colman@dhs.gov	417-832-4731-O
2	Rebecca Thomson	Rebecca.Thomson@dhs.gov	212-680-8509-O (b)(6) -C
3	Darrell Hammonds	Darrell.Hammonds@dhs.gov	215-931-5546-O (b)(6) -C
4	Conrad Burnside	Conrad.Burnside@dhs.gov	770-220-5486-O (b)(6) -C
5	William King	William.King@dhs.gov	312-408-5575-O (b)(6) -C
6	Lisa Hammond	Lisa.Hammond@dhs.gov	940-898-5199-O (b)(6) -C
7	Ronald McCabe	Ronald.McCabe@dhs.gov	816-283-7007-O (b)(6) -C
8	Dan Feighert	Dan.Feighert@dhs.gov	303-235-4737-O (b)(6) -C
9	Craig Fiore	Craig.Fiore@dhs.gov	510.627.7252-O (b)(6) -C
10	Bill Webb	Bill.Webb@dhs.gov	425-427-2175-O

**Technological Hazards Division Headquarters  
Contacts**

<b>Name Last, First</b>	<b>Branch</b>	<b>Title</b>
Arszulowicz, John	REPP	Program Specialist
Barker, Ronald	CSEPP	(Emergency Preparedness)
Barnes, Joshua	REPP	Emergency Management Specialist
Broockerd, Lany	REPP	Training Specialist
Butler, Lolita	CSEPP	Secretary
Coleman-Marbury, Brenda	BizOps	Executive Assistant
Collins Jr., Richard W.	FRPCC	Program Specialist
Connell, Renae	REPP	Emergency Management Specialist
Coons, Albert	REPP	Lead Program Specialist (Emergency Preparedness)
Darlington, Lisa	BizOps	Acting Branch Chief
DeFelice, Anthony	REPP	Attorney
DeGilio, Lou	REPP	Training Specialist
Du, Jingtong (James)	ProfServices	Electronics Engineer
Eberst, William	ProfServices	Program Specialist
Fiore, Craig	REPP	Deputy Branch Chief
Flores, Kaori	REPP	Emergency Management Specialist
Fontenot, Rebecca	REPP	Emergency Management Specialist
Galloway, Clark	BizOps	Program Specialist (Emergency Preparedness)
Gardner, Patricia	REPP	Program Specialist
Gates II, Russell P. (Russ)	ProfServices	Senior Electronics Engineer
Gilder, David	CSEPP	Program Specialist
Greten, Tim	Division	Deputy Director
Hallett, Scott	REPP	Training Specialist
Halsey, LaShawn	REPP	Emergency Management Specialist
Hamilton, Lisa	REPP	Emergency Management Specialist
Hammond-Woodard, Odessa	ProfServices	Program Support Assistant
Herring, Joe	CSEPP	Deputy Director
Hobbs, Terry	CSEPP	Acting Branch Chief
Horton, Douglas	REPP	Attorney
Horwitz, Steve	ProfServices	Public Affairs Specialist
Howe, Michael	ProfServices	Health Physicist
Jeremy, David	REPP	Program Specialist (Emergency Management)
Kish, James	Division	Director
Mauldin, Deborah	REPP	Emergency Management Specialist
McSwain, Alonzo	BizOps	Program Specialist (Emergency Preparedness)
Mingledolph, Juvart	BizOps	Senior Program Specialist (Emergency Preparedness)
Nash Jr., Harry W.	REPP	Program Specialist
Nevitt, Jason	BizOps	Lead Program Specialist
Norville, Robert	CSEPP	(Emergency Preparedness)

Owens, Tamara	FRPCC	Administrative Program Specialist
Page, Christopher	ibd	Emergency Management Specialist
Purvis, James	REPP	Emergency Management Specialist
Quinn, Vanessa E.	REPP	Branch Chief
Name Last, First	Branch	Title
Ralston, Michelle	ProfServices	Emergency Management Specialist Program Specialist
Sanders, Tamara	BizOps	(Emergency Preparedness)
Schafer, John	ProfServices	Electronics Engineer
Scipio, Tanya	BizOps	Program/Policy Specialist
	BizOps	Branch Chief
		Program Specialist (Emergency Management)
Sheffield, Bonnie	REPP	Program Specialist
		(Emergency Preparedness)
Strother, Thomas	BizOps	Program Specialist
Taylor-Redman, Crystal	BizOps	Program Specialist
		(Emergency Preparedness)
Tenorio, Pat	BizOps	Program Analyst
Turner, Sheila	BizOps	Health Physicist
Ward, Paul	ProfServices	Program Specialist
Warnock, Thomas	CSEPP	Emergency Management Specialist
Wilt, Michael C	REPP	Program Specialist
		Training Specialist
Wicman, Ken	REPP	
	Division	Technological Hazards Division
	BizOps	Business Operations
	ProfServices	Professional Services
		Radiological Emergency Preparedness Program
	REPP	Chemical Stockpile Emergency Preparedness Program
	CSEPP	Federal Radiological Emergency Preparedness Program
	FRPCC	

Per your request. I hope this helps. Let me know if I can be of any other assistance to you.

Bonnie Sheffield

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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---

**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 12:49 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Both

---

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:39 PM  
**To:** Williams, Kevin  
**Subject:**

I heard through the grapevine that you need a contact list for FEMA. What do you need Regions, HQ or both? I have all that here.

Bonnie Sheffield

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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**From:** LIA05 Hoc  
**Sent:** Sunday, March 27, 2011 5:49 PM  
**To:** Sheffield, Bonnie  
**Subject:** FW: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)  
**Attachments:** Japan Earthquake Team Rosters (3-25-2011 to 4-2-2011).doc  
**Importance:** High

Ms. Sheffield,

FYI,

You are on the schedule for tomorrow.

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

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---

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

All

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

Thank You

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

Office: 202-212-2332

Mobile: (b)(6)

Email: [juvart.mingledolph@dhs.gov](mailto:juvart.mingledolph@dhs.gov)

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## Daily Roster (Japan Earthquake- JE)

**Friday, March 25, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #	
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)	
Albert Coons	Team Lead (Alt)	856			
Dan Feighert	Team Lead	819			
Rebecca Fontenot	Action Officer	852			
Lisa Hamilton	Action Officer	853			
Anthony DeFelice	Legal	829			
Doug Horton	Legal	833			
Paul Ward	Health Physicist	849			
Michelle Ralston	Public Affairs	828			<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>
Steve Horwitz	Public Affairs	811			<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>
Bill Bischof	Public Affairs	415	<a href="mailto:Bill.Bischof@dhs.gov">Bill.Bischof@dhs.gov</a>		
ICF Contractor Rob and Courtney	Overall Support	847			

### NRC

Name	Shift	E-mail	BB #
Larry Broockerd	6 am to 3:00 pm	<a href="mailto:Larry.Broockerd@dhs.gov">Larry.Broockerd@dhs.gov</a>	(b)(6)
Kenneth Wierman	3:00 pm to 11 pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team





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## Daily Roster (Japan Earthquake- JE)

**Saturday, March 26, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Albert Coons	Team Lead	856	(b)(6)	(b)(6)
Dan Feighert	Team Lead	819		
Rebecca Fontenot	Action Officer	852		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Mike Howe	Health Physicist	858		
Bill Bischof	Public Affairs	415		
John Simpson	Public Affairs	818	<a href="mailto:John.Simpson@dhs.gov">John.Simpson@dhs.gov</a>	

### NRC

Name	Shift	E-mail	BB #
Larry Broockerd	6:00 am to 3 pm	<a href="mailto:Larry.Broockerd@dhs.gov">Larry.Broockerd@dhs.gov</a>	(b)(6)
Kenneth Wierman	3:00 pm to 11 pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team



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## Daily Roster (Japan Earthquake- JE)

**Sunday, March 27, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Albert Coons	Team Lead	856	(b)(6)	(b)(6)
Dan Feighert	Team Lead	819		
Lisa Hamilton	Action Officer	852		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Mike Howe	Health Physicist	858		
John Simpson	Public Affairs	818		

### NRC

Name	Shift	E-mail	BB #
Larry Broockerd	6am to 3pm	<a href="mailto:Larry.Broockerd@dhs.gov">Larry.Broockerd@dhs.gov</a>	(b)(6)
Kenneth Wierman	3pm to 11pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team



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## Daily Roster (Japan Earthquake - JE)

**Monday, March 28, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #	
David Jeremy	Team Lead	854	(b)(6)	(b)(6)	
Dan Feighert	Team Lead	819			
Rebecca Fontenot	Action Officer	852			
Anthony DeFelice	Legal	829			
Doug Horton	Legal	833			
Mike Howe	Health Physicist	858			
Steve Horwitz	Public Affairs	811			<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>
John Simpson	Public Affairs	818			<a href="mailto:John.Simpson@dhs.gov">John.Simpson@dhs.gov</a>
ICF Contractor Rob and Courtney	Overall Support	847			

### NRC

Name	Shift	E-mail	BB #
Bonnie Sheffield	6am to 3pm	<a href="mailto:Bonnie.Sheffield@dhs.gov">Bonnie.Sheffield@dhs.gov</a>	(b)(6)
Kenneth Wierman	3pm to 11pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team



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## Daily Roster (Japan Earthquake - JE)

**Tuesday, March 29, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #	
Al Coons	Team Lead	856	(b)(6)	(b)(6)	
Dan Feighert	Team Lead	819			
David Jeremy	Team Lead	854			
Rebecca Fontenot	Action Officer	852			
Anthony DeFelice	Legal	829			
Doug Horton	Legal	833			
Mike Howe	Health Physicist	858			
Steve Horwitz	Public Affairs	811			<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>
John Simpson	Public Affairs	818			<a href="mailto:John.Simpson@dhs.gov">John.Simpson@dhs.gov</a>
ICF Contractor Rob and Courtney	Overall Support	847			

### NRC

Name	Shift	E-mail	BB #
Bonnie Sheffield	6am to 3pm	<a href="mailto:Bonnie.Sheffield@dhs.gov">Bonnie.Sheffield@dhs.gov</a>	(b)(6)
Kenneth Wierman	3pm to 11pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team

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## Daily Roster (Japan Earthquake - JE)

**Wednesday, March 30, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #	
Albert Coons	Team Lead	856	(b)(6)	(b)(6)	
Dan Feighert	Team Lead	819			
David Jeremy	Team Lead	854			
Rebecca Fontenot	Action Officer	852			
Anthony DeFelice	Legal	829			
Doug Horton	Legal	833			
Mike Howe	Health Physicist	858			
Steve Horwitz	Public Affairs	811			<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>
John Simpson	Public Affairs	818			<a href="mailto:John.Simpson@dhs.gov">John.Simpson@dhs.gov</a>
ICF Contractor Rob and Courtney	Overall Support	847			

### NRC

Name	Shift	E-mail	BB #
Bonnie Sheffield	6am to 3pm	<a href="mailto:Bonnie.Sheffield@dhs.gov">Bonnie.Sheffield@dhs.gov</a>	(b)(6)
Kenneth Wierman	3pm to 11pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team



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## Daily Roster (Japan Earthquake - JE)

**Thursday, March 31, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Dan Feighert	Team Lead	819	(b)(6)	(b)(6)
Anthony DeFelice	Legal	829		
David Jeremy	Team Lead	854		
Patti Gardner	Action Officer	852		
Doug Horton	Legal	833		
Mike Howe	Health Physicist	858		
Steve Horwitz	Public Affairs	811	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
John Simpson	Public Affairs	818	<a href="mailto:John.Simpson@dhs.gov">John.Simpson@dhs.gov</a>	
ICF Contractor Rob and Courtney	Over all Support	847		

### NRC

Name	Shift	E-mail	BB #
Bonnie Sheffield	6am to 3pm	<a href="mailto:Bonnie.Sheffield@dhs.gov">Bonnie.Sheffield@dhs.gov</a>	(b)(6)
Kenneth Wierman	3pm to 11pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team



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## Daily Roster (Japan Earthquake - JE)

Friday, April 1, 2011

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Albert Coons	Team Lead	839	(b)(6)	(b)(6)
Dan Feighert	Team Lead	819		
David Jeremy	Team Lead	854		
Rebecca Fontenot	Action Officer	852		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Mike Howe	Health Physicist	858		
Steve Horwitz	Public Affairs	811	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
John Simpson	Public Affairs	818	<a href="mailto:John.Simpson@dhs.gov">John.Simpson@dhs.gov</a>	
ICF Contractor Rob and Courtney	Over all Support	847		

### NRC

Name	Shift	E-mail	BB #
Bonnie Sheffield	6am to 3pm	<a href="mailto:Bonnie.Sheffield@dhs.gov">Bonnie.Sheffield@dhs.gov</a>	(b)(6)
Kenneth Wierman	3pm to 11pm	<a href="mailto:Kenneth.Wierman@dhs.gov">Kenneth.Wierman@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team



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## Daily Roster (Japan Earthquake - JE)

**Saturday, April 2, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Rooms	E-mail	BB #
Albert Coons	Team Lead	839	(b)(6)	(b)(6)
Dan Feighert	Team Lead	819		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Mike Howe	Health Physicist	858		
Steve Horwitz	Public Affairs	811	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
John Simpson	Public Affairs	818	<a href="mailto:John.Simpson@dhs.gov">John.Simpson@dhs.gov</a>	

### NRC

Name	Shift	E-mail	BB #
Harry Nash	6am to 3pm	<a href="mailto:Harry.Nashjr@dhs.gov">Harry.Nashjr@dhs.gov</a>	(b)(6)
Larry Broockerd	3pm to 11pm	<a href="mailto:Larry.Broockerd@dhs.gov">Larry.Broockerd@dhs.gov</a>	

Note: Please forward all action items to every member of the JE Team



---

**From:** Collins, Richard <Richard.Collins@dhs.gov>  
**Sent:** Saturday, March 26, 2011 1:04 PM  
**To:** LIA05 Hoc  
**Cc:** Collins, Richard  
**Subject:** Re: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

It appears that my email address has been added to the automatic distribution list for LIA05 HOC. If this is the case, I respectfully request that my email be deleted from the automatic distro list from this group. Thanks.

---

**From:** prvs=05881ecbf=LIA05.Hoc@nrc.gov <prvs=05881ecbf=LIA05.Hoc@nrc.gov>  
**To:** Mingleolph, Juvart <Juvart.Mingleolph@dhs.gov>; THD-Employees  
**Sent:** Fri Mar 25 19:26:05 2011  
**Subject:** RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Question,

Am I off all of next weekend?

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

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---

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

All

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

Thank You

*Juvart T. Mingleolph II*

*Lead Program Specialist*

*Professional Continuity Practitioner*

*Business Operations Branch  
Technological Hazards Division  
National Preparedness Directorate  
Federal Emergency Management Agency  
US Department of Homeland Security*

*Office: 202-212-2332*

*Mobile: [redacted] (b)(6)*

*Email: [juvart.mingledolph@dhs.gov](mailto:juvart.mingledolph@dhs.gov)*

## ***"Moving At The Speed Of Business"***

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**From:** Fontenot, Rebecca <Rebecca.Fontenot@dhs.gov>  
**Sent:** Monday, March 28, 2011 7:34 AM  
**To:** LIA05 Hoc  
**Cc:** Wierman, Kenneth  
**Subject:** RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Ken,

I am only the messenger in developing the work schedule, so I will get your message to the managers should they develop a shift for Wednesday.

Sincerely,

**Rebecca Fontenot**  
REP Program  
(202) 212-2315

---

**From:** prvs=05946cc35=LIA05.Hoc@nrc.gov [mailto:prvs=05946cc35=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc  
**Sent:** Saturday, March 26, 2011 3:38 PM  
**To:** Fontenot, Rebecca  
**Cc:** Feighert, Dan  
**Subject:** RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Ms. Fontenot,

If possible, a weekend off would be nice. Thank you.

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

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---

**From:** Fontenot, Rebecca [mailto:Rebecca.Fontenot@dhs.gov]  
**Sent:** Saturday, March 26, 2011 10:33 AM  
**To:** LIA05 Hoc; Wierman, Kenneth  
**Cc:** Feighert, Dan  
**Subject:** RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Ken,

The schedule is only developed through next Saturday, for which you are not slated to work. If they decide to develop the schedule any further, we will contact you for your availability.

Sincerely,

**Rebecca Fontenot**

REP Program  
(202) 212-2315

---

**From:** prvs=05881ecbf=LIA05.Hoc@nrc.gov [mailto:prvs=05881ecbf=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc  
**Sent:** Friday, March 25, 2011 7:26 PM  
**To:** Mingledolph, Juvart; THD-Employees  
**Subject:** RE: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)

Question,

Am I off all of next weekend?

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

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---

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

All

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

Thank You

*Juvart T. Mingledolph II*

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

Office: 202-212-2332

Mobile: (b)(6)

Email: [juvart.mingledolph@dhs.gov](mailto:juvart.mingledolph@dhs.gov)

***"Moving At The Speed Of Business"***

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**From:** LIA05 Hoc  
**Sent:** Tuesday, March 29, 2011 8:48 PM  
**To:** larry.broockerd@dhs.gov; harry.nashjr@dhs.gov  
**Subject:** FW: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)  
**Attachments:** Japan Earthquake Team Rosters (3-25-2011 to 4-2-2011).doc  
**Importance:** High

Gentlemen,

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

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

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---

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

All

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

Thank You

*Juvart T .Mingleolph II*

*Lead Program Specialist  
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Email: [juvart.mingledolph@dhs.gov](mailto:juvart.mingledolph@dhs.gov)

## ***"Moving At The Speed Of Business"***

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**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 5:11 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: Technological Hazards Division Daily Roster Japan Earthquake (JE) Team (March 25, 2011 to April 2, 2011)  
**Attachments:** Japan Earthquake Team Rosters (3-25-2011 to 4-2-2011).doc  
**Importance:** High

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

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---

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

All

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

Thank You

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Office: 202-212-2332

Mobile: (b)(6)



  
Email: [juvart.mingledolph@dhs.gov](mailto:juvart.mingledolph@dhs.gov)

## ***"Moving At The Speed Of Business"***

---

**From:** Mingledolph, Juvart <Juvart.Mingledolph@dhs.gov>  
**Sent:** Thursday, March 31, 2011 4:14 PM  
**To:** THD-Employees; LIA05 Hoc  
**Subject:** Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)  
**Attachments:** Japan Earthquake Team Rosters (4-3-2011 to 4-9-2011).doc  
**Importance:** High

All

Attached Is the Daily Rosters for the FEMA Technological Hazards Division Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011). If you have any questions for FEMA-THD-JE Team regarding the Japan Earthquake, please contact the assigned Action Officer and Team Leads.

Thank You

*Juvart T .Mingledolph II*

*Lead Program Specialist  
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*Office: 202-212-2332*

*Mobile: (b)(6)*

*Email: [juvart.mingledolph@dhs.gov](mailto:juvart.mingledolph@dhs.gov)*

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## Daily Roster (Japan Earthquake- JE)

**Sunday, April 3, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)
Albert Coons	Team Lead	839		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Steve Horwitz	Public Affairs	811	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
Michelle Ralston	Public Affairs	828	<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>	

### NRC

Name	Shift	E-mail	BB #
David Jeremy	6 am to 3:00 pm	<a href="mailto:David.jeremy@dhs.gov">David.jeremy@dhs.gov</a>	(b)(6)
James Purvis	3:00 pm to 11 pm	<a href="mailto:James.Purvis@dhs.gov">James.Purvis@dhs.gov</a>	

Note: NRC Liaison will be on call (via Blackberry).

Note: Please forward all action items to every member of the JE Team.

CJ 1829 of 1949



**Homeland  
Security**

## Daily Roster (Japan Earthquake - JE)

**Monday, April 4, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)
Albert Coons	Team Lead	839		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Steve Horwitz	Public Affairs	811		
Michelle Ralston	Public Affairs	828		
			<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
			<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>	

### NRC

Name	Shift	E-mail	BB #
David Jeremy	6 am to 3:00 pm	<a href="mailto:David.jeremy@dhs.gov">David.jeremy@dhs.gov</a>	(b)(6)
James Purvis	3:00 pm to 11 pm	<a href="mailto:James.Purvis@dhs.gov">James.Purvis@dhs.gov</a>	

Note: NRC Liaison will be on call (via Blackberry).

Note: Please forward all action items to every member of the JE Team.

CJ 1830 of 1949



**Homeland  
Security**

## Daily Roster (Japan Earthquake - JE)

**Tuesday, April 5, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)
Albert Coons	Team Lead	839		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Steve Horwitz	Public Affairs	811	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
Michelle Ralston	Public Affairs	828	<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>	

### NRC

Name	Shift	E-mail	BB #
Patti Gardner	6 am to 3:00 pm	<a href="mailto:Patricia.Gardner@dhs.gov">Patricia.Gardner@dhs.gov</a>	(b)(6)
Harry Nash	3:00 pm to 11 pm	<a href="mailto:Harry.Nashjr@dhs.gov">Harry.Nashjr@dhs.gov</a>	

Note: NRC Liaison will be on call (via Blackberry).

Note: Please forward all action items to every member of the JE Team.

CJ 1831 of 1949



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## Daily Roster (Japan Earthquake - JE)

Wednesday, April 6, 2011

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)
Albert Coons	Team Lead	839		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Steve Horwitz	Public Affairs	811		
Michelle Ralston	Public Affairs	828		
			<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
			<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>	

### NRC

Name	Shift	E-mail	BB #
Patti Gardner	6 am to 3:00 pm	<a href="mailto:Patricia.Gardner@dhs.gov">Patricia.Gardner@dhs.gov</a>	(b)(6)
Harry Nash	3:00 pm to 11 pm	<a href="mailto:Harry.Nashjr@dhs.gov">Harry.Nashjr@dhs.gov</a>	

Note: NRC Liaison will be on call (via Blackberry).

Note: Please forward all action items to every member of the JE Team.

CJ 1832 of 1949



**Homeland  
Security**

## Daily Roster (Japan Earthquake - JE)

**Thursday, April 7, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)
Albert Coons	Team Lead	839		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Steve Horwitz	Public Affairs	811	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	
Michelle Ralston	Public Affairs	828	<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>	

### NRC

Name	Shift	E-mail	BB #
Patti Gardner	6 am to 3:00 pm	<a href="mailto:Patricia.Gardner@dhs.gov">Patricia.Gardner@dhs.gov</a>	(b)(6)
Harry Nash	3:00 pm to 11 pm	<a href="mailto:Harry.Nashjr@dhs.gov">Harry.Nashjr@dhs.gov</a>	

Note: NRC Liaison will be on call (via Blackberry).

Note: Please forward all action items to every member of the JE Team.

CJ 1833 of 1949



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## Daily Roster (Japan Earthquake - JE)

**Friday, April 8, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Room	E-mail	BB #
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)
Albert Coons	Team Lead	839		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Steve Horwitz	Public Affairs	811		
Michelle Ralston	Public Affairs	828	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>

### NRC

Name	Shift	E-mail	BB #
Patti Gardner	6 am to 3:00 pm	<a href="mailto:Patricia.Gardner@dhs.gov">Patricia.Gardner@dhs.gov</a>	(b)(6)
Harry Nash	3:00 pm to 11 pm	<a href="mailto:Harry.Nashjr@dhs.gov">Harry.Nashjr@dhs.gov</a>	

Note: NRC Liaison will be on call (via Blackberry).

Note: Please forward all action items to every member of the JE Team.

CJ 1834 of 1949





**Homeland  
Security**

## Daily Roster (Japan Earthquake - JE)

**Saturday, April 9, 2011**

### JE Team (Normal Hours - On Call)

Name	Role	Rooms	E-mail	BB #
Vanessa Quinn	Team Lead	837	(b)(6)	(b)(6)
Albert Coons	Team Lead	839		
Lisa Hamilton	Action Officer	853		
Anthony DeFelice	Legal	829		
Doug Horton	Legal	833		
Steve Horwitz	Public Affairs	811		
Michelle Ralston	Public Affairs	828	<a href="mailto:Steve.Horwitz@dhs.gov">Steve.Horwitz@dhs.gov</a>	<a href="mailto:Michelle.Ralston@dhs.gov">Michelle.Ralston@dhs.gov</a>

### NRC

Name	Shift	E-mail	BB #
Patti Gardner	6 am to 3:00 pm	<a href="mailto:Patricia.Gardner@dhs.gov">Patricia.Gardner@dhs.gov</a>	(b)(6)
Harry Nash	3:00 pm to 11 pm	<a href="mailto:Harry.Nashjr@dhs.gov">Harry.Nashjr@dhs.gov</a>	

Note: NRC Liaison will be on call (via Blackberry).

Note: Please forward all action items to every member of the JE Team.

CJ 1835 of 1949

---

**From:** Strother, Thomas <Thomas.Strother@dhs.gov>  
**Sent:** Thursday, March 31, 2011 4:21 PM  
**To:** LIA05 Hoc  
**Subject:** RE: Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)

Ken,

Thanks for serving our nation (again) in this time of need.

VR,

Tommy s.

---

**From:** prvs=064dea3aa=LIA05.Hoc@nrc.gov [mailto:prvs=064dea3aa=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc  
**Sent:** Thursday, March 31, 2011 4:18 PM  
**To:** Mingleolph, Juvart; THD-Employees  
**Subject:** RE: Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)  
**Importance:** High

Mr. Mingleolph,

Who has it on April 2?

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

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---

**From:** Mingleolph, Juvart [mailto:Juvart.Mingleolph@dhs.gov]  
**Sent:** Thursday, March 31, 2011 4:14 PM  
**To:** THD-Employees; LIA05 Hoc  
**Subject:** Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)  
**Importance:** High

All

Attached Is the Daily Rosters for the FEMA Technological Hazards Division Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011). If you have any questions for FEMA-THD-JE Team regarding the Japan Earthquake, please contact the assigned Action Officer and Team Leads.

Thank You

**Juvar T .Mingledolph II**

**Lead Program Specialist**

**Professional Continuity Practitioner**

**Business Operations Branch**

**Technological Hazards Division**

**National Preparedness Directorate**

**Federal Emergency Management Agency**

**US Department of Homeland Security**

**Office: 202-212-2332**

**Mobile:**

**Email: [juvar.mingledolph@dhs.gov](mailto:juvar.mingledolph@dhs.gov)**

**"Moving At The Speed Of Business"**

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**From:** LIA05 Hoc  
**Sent:** Thursday, March 31, 2011 4:25 PM  
**To:** Mingledolph, Juvart  
**Cc:** Dan Feighert; Andrew Seward; Harry Sherwood; John Simpson; Lisa Hamilton; Michelle Ralston; Rebecca Fontenot; Steve Horwitz; Tim Greten; Vanessa E. Quinn  
**Subject:** RE: Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)

**Importance:** High

Mr. Mingledolph,

Caution!!! You may have to have these new individuals identified (i.e. Mr. Jeremy and Mr. Purvis) come up to the NRC Operations Center (one at a time) to verify their clearances and learn the logistics. You cannot just dispatch anyone up here.

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

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**From:** Mingledolph, Juvart [mailto:Juvart.Mingledolph@dhs.gov]  
**Sent:** Thursday, March 31, 2011 4:14 PM  
**To:** THD-Employees; LIA05 Hoc  
**Subject:** Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)  
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Thank You

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*Lead Program Specialist*

*Professional Continuity Practitioner*

*Business Operations Branch*

*Technological Hazards Division*

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*Federal Emergency Management Agency  
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*Office: 202-212-2332*

*Mobile: (b)(6)*

*Email: [juart.mingledolph@dhs.gov](mailto:juart.mingledolph@dhs.gov)*

***"Moving At The Speed Of Business"***

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**From:** Strother, Thomas <Thomas.Strother@dhs.gov>  
**Sent:** Thursday, March 31, 2011 4:28 PM  
**To:** LIA05 Hoc  
**Subject:** RE: Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)

Mr. Wierman (sir!)

It's very quiet here--- I am assigned to Business Operations. Mr Andrew Seward is great to work for.

VR,

Tommy s.

---

**From:** prvs=064dea3aa=LIA05.Hoc@nrc.gov [mailto:prvs=064dea3aa=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc  
**Sent:** Thursday, March 31, 2011 4:25 PM  
**To:** Strother, Thomas  
**Subject:** RE: Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)

Mr. Strother,

What is going on back there and who is in charge?

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

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**From:** Strother, Thomas [mailto:Thomas.Strother@dhs.gov]  
**Sent:** Thursday, March 31, 2011 4:21 PM  
**To:** LIA05 Hoc  
**Subject:** RE: Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)

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Tommy s.

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**Sent:** Thursday, March 31, 2011 4:18 PM  
**To:** Mingleolph, Juvart; THD-Employees

**Subject:** RE: Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)  
**Importance:** High

Mr. Mingledolph,

Who has it on April 2?

Ken Wierman    Nightshift    1500-2300  
FEMA REP Liaison  
NRC Operations Center  
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**From:** Mingledolph, Juvart [mailto:Juvart.Mingledolph@dhs.gov]  
**Sent:** Thursday, March 31, 2011 4:14 PM  
**To:** THD-Employees; LIA05 Hoc  
**Subject:** Technological Hazards Division, Daily Roster Japan Earthquake (JE) Team (April 3, 2011 to April 9, 2011)  
**Importance:** High

All

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Thank You

*Juvart T .Mingledolph II*

*Lead Program Specialist  
Professional Continuity Practitioner  
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*Office: 202-212-2332*

*Mobile:*

*Email: [juvart.mingledolph@dhs.gov](mailto:juvart.mingledolph@dhs.gov)*

***"Moving At The Speed Of Business"***

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**From:** LIA05 Hoc  
**Sent:** Friday, April 01, 2011 2:55 PM  
**To:** Rebecca Fontenot  
**Cc:** Coons, Albert; Dan Feighert  
**Subject:** Files and DRAFT FEMA Liaison SOG  
**Attachments:** FEMA Liaison Duties and Responsibilities3.docx; NRC Operation Center FEMA Schedule.docx; Log for FEMA Liaison 03182011.docx; Log for FEMA Liaison 03172011.docx; Log for FEMA Liaison 03192011.docx; Log for FEMA Liaison 03202011.docx; Log for FEMA Liaison 03212011.docx; Log for FEMA Liaison 03222011.docx; IOG FOR FEMA Liaison 03232011.docx; LOG for FEMA Liaison 03242011.docx; Log for FEMA Liaison 03252011.docx; Log for FEMA Liaison 03262011.docx; Log for FEMA Liaison 03272011.docx; Log for FEMA Liaison 03282011.docx; Log for FEMA Liaison 03292011.docx; Log for FEMA Liaison 03302011.docx; Log for FEMA Liaison 03312011.docx

Please find the attached.

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

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FEMA Liaison LOG  
NRC Operations Center  
DATE: March 17, 2011

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**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: March 18, 2011**

TIME	ENTRY
0700	Bonnie Sheffield assumed the FEMA Liaison Watch Briefing /Discussion on the events of the last 24 hrs.
0749	Contacted Harry Sherwood about the process of communicating with the States
0848	Received the comments from NRC on the EPZ paper and transmitted them to HQ
0932	Requested FRPCC notes from HQ
1000-1100	Worked on clarifying the OPA talking point paper and the EPZ paper, for Mr. Mike Markley from NRC
1008	Transmitted the EPZ paper from FEMA HQ, it is on the shared drive and sent to NRC Regions. Still waiting for a response on how and who will distribute the information
1100 -1130	FEMA All hands meeting conference call. The administration is pleased with what we have done so far. See a need to have more involvement with the program. Thank you to all the staff that is working. The key for us is to put our name on all the e-mails. We are to send the log sheets daily to Mr. Sherwood and Ms Quinn. Asked to have a call off line.
1145	Verified that the OPA received the EPZ paper.
1230	Transmitted the e-mail that went out to all the Fed s on EPZ
1250	Per request the FEMA contact list was sent to Kevin Williams NRC
1326	Transmitted the EPZ paper to the RAC chairs.
1345	Waiting for a response for conformation on the line of communication with documents.
1350	Waiting for response for a call from HQ that was requested at 1130
1445	Ken Wierman assumes the FEMA Liaison Watch
1520	Transmitted the 0600 NRC Status Update
1534	Transmitted NRC Chairman Jaczko's Testimony from yesterday.
1540	Transmitted 18 March 2011 1500 NRC Talking Points.
1553	Transmitted information regarding White House Conference Call with Western State and Pacific Territory Governors – scheduled 1900.
1554	Transmitted information on an NRC Commissioners meeting on Monday, March 21, 2011.
1558	Transmitted request to brand the EPZ Document.
1625	Transmitted information regarding the State Health Officials Conference Call.
1638	Transmitted information on the NRC Public Meeting on Monday, 21 March 2011.
1752	Transmitted latest NRC Press Release.
1830	Transmitted the 1800 NRC Situation Report.
1847	Transmitted the proposed DHS/CBP action level on radiological contamination from passenger baggage.
1900	Monitored White House Conference Call with West Coast State and Pacific Territory Governors.
2005	Transmitted NRC In the News Summary.
2143	Transmitted IN 2011-05.
2300	Secured the FEMA Liaison Watch until 0700 19 March 2011.
<b>NO FURTHER ENTRIES THIS DATE</b>	



**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: March 23, 2011**

<b>TIME</b>	<b>ENTRY</b>
0700	Bonnie Sheffield assumed the FEMA Liaison Watch
0714	Transmitted FEMA Liaison Log to FEMA Contact list
0807	Transmitted NRC SITREP to FEMA Contact List
0730-0815	Trained Larry Broockerd (HQ) and Otis Spencer (Reg IV) on FEMA Liaison duties.
0828	Bonnie Sheffield turns watch responsibilities over to Larry Broockerd and Otis Spencer.
0825	E-mail from Mr. McDermott regarding FEMA staffing.
0935	Transmitted NRC SITREP (0700) to FEMA Contact list
1000	Received an RFI from the Congressional Research Service-passed to Liaison Director
1006	E-mail from CBP in response to RFI concerning Rad Monitoring on Aircraft, Baggage, etc
1030	Transmitted CBP information to State Liaisons, Liaison Coordinator, and Liaison Director
1036	Transmitted CBP information to FEMA Contact list
1045	Received RFI for "real time" Operations tempo from Public Affairs
1052	Responded to request for real time Operations tempo information from Public Affairs
1200	Nothing new for action
1308	Received an invitation to participate in a SVTC re: DHS Bi-weekly Intel Threat Briefing
1318	E-mail to FEMA Contact list for guidance
1323	Response from Michelle Ralston to support in any way requested
1328	Contact with Liaison Coordinator for approved information
1338	Forwarded e-mail train to Liaison Coordinator for follow up
1348	Received vetted information (NRC press release and OPA talking points) from NRC Liaison Director for dissemination
1400	Attended Liaison Staff meeting
1440	Forwarded e-mail with briefing information to FEMA Contact List.
1450	Confirmed that no Secure phone bridge is available for Briefing at 1500
1455	Conferred with Liaison Coordinator for approval to share talking points with requesting party
1500	E-mailed NRC press release and OPA talking points to FEMA Contact list and requesting party
1500	Harry Nash reported in and assumed duty.
1705	Forwarded NRC EDO Update to senior FEMA authorities and RAC Chairs.
1810	State Liaison Rep asked could EPZ Information sent by FEMA be shared with state and/or public. Question was forwarded to FEMA Contact List personnel at 1812.
1812	Question presented by State Liaison about FEMA EPZ information forwarded to FEMA Contact List.
2040	NRC Ops requests any guidance FEMA can provide on safe re-entry of personnel and food to a contaminated area. The original request came from NRC Team in Japan. Message was forwarded to FEMA Contact List at 2043.
2300	Secured the FEMA Liaison Watch
	<b>NO FURTHER ENTRIES THIS DATE</b>

**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: March 23, 2011**


**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: March 24, 2011**

<b>TIME</b>	<b>ENTRY</b>
0700	Odis Spencer (FEMA RIV Detail) assumed duties as FEMA REP Liaison (FRL) at NRC EOC. Reviewed traffic in email channel to familiarize with previous shifts events. One unresolved issue with International liaison request for support/information regarding Japan request for information on reentry of personnel into 50m EPZ.
0707	FRL sent notification to FEMA contact list of assumption of duties.
0722	Vanessa Quinn called to confirm appropriate FEMA REP staffing at EOC. I conveyed to her the inconvenience of staff not having badging that allows unescorted access. She conveyed knowledge of the issue and FEMA REPs efforts to address getting more personnel security for unescorted access.
0755	LT Director conducted staff update and brief to address outstanding action items; FRL working with International Liaison on Japan request for reference material on reentry of personnel back into the 50m EPZ. International Liaison provided hardcopy request for follow up.
0843	FRL sent a request for response (RFR) via email to HQs FEMA REP reference the International Liaison RFI. Provided a general statement based on Program knowledge; NUREG 0564 and REP Program manuals are governing references; however neither provides detailed procedures on reentry. Allows flexibility to/for jurisdictions to develop their own plans.
0917	FRL received Japan Evacuation Document from State Liaison as FYI. Forwarded to FEMA Contacts list. Received bounce back from FEMA email postmaster that Mr. Greten's mail box is full and the message was not delivered to his box. Notified FEMA Contact list. Saved in FEMA Liaison Folder.
0951	FRL spoke with Dan Feighert via phone to provide feedback on earlier RFR. He indicated he would get on top of it to provide info for feedback to International Liaison.
1022	Received inquiry from Rebecca Fontenot regarding whether FRL had received a response about the RFR. FRL responded at 1031 that I had not; had spoken with Dan Feighert and was awaiting his response.
1035	Rebecca Fontenot responded to the earlier response at 1031; she will follow-up with Dan to ensure he is attempting to resolve the RFR.
1048	Dan Feighert sent notification via email that he is working the RFR and intends to provide a response by noon (201103241200) est. FRL acknowledged message at 1049.
1148	Rebecca Fontenot provides a status update that the RFR response is being worked and will be provided by Dan soon. FRL acknowledged.
1246	FRL received notification from REP HQs, Dan Feighert that RFR response is being reviewed by REP Counsel and will be pushed as soon as completed.
1247	Forwarded NRC NR 11.056 for 2011.3.24 to FEMA Contact List.
1324	Received NRC Status Update 3.24.11-0600 from Federal Liaison Officer. Reviewed/Forwarded to FEMA Contact list. No Action items. Saved in FRL folder.
1326	Received call from NRC HQs Operations Officer for LT Director. Notified Director.
1329	Received Status update of the RFR regarding 50m EPZ from Dan. Still being reviewed by legal. Acknowledged update.
1430	Ken Wierman assumed the FEMA Liaison Watch.
1450	Transmitted NRC OPA Talking Points from 23 March 2011
1455	Transmitted NRC Press Release from today.

**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: March 24, 2011**

1625	Received response regarding guidance on recovery and reentry, forwarded to International Liaison.
1626	Received FEMA REPP SITREP
1928	Transmitted the 1800 NRC Status Update.
2300	Ken Wierman secured the FEMA Liaison Watch
	<b>NO FURTHER ENTRIES THIS DATE</b>



**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: 25 March 2011**

<b>TIME</b>	<b>ENTRY</b>
0615	Larry Broockerd (FEMA HQ) assumed duties as FEMA REP Liaison (FRL) at NRC EOC. Reviewed traffic in email channel to familiarize with previous shifts events.
0710	Confirmed that RFI has been passed to International desk in Ops Center for Federal Liaison Officers.
0800	NRC Ops Center Briefing-passed information on Re-entry/Return question from yesterday
1015	Provided a compilation of Rad guidance that is used by First Responders in US
1100	Dialed into daily ESF #8 conference call
1140	Transmitted information from conference call to FEMA Liaison Group
1500	Ken Wierman assumed the FEMA Liaison Watch.
1527	Transmitted the NRC Press Release for today.
1530	Transmitted the NRC OPA Talking Points from yesterday.
1910	Transmitted the 1800 NRC Status Update.
1918	Transmitted proposals regarding contaminated articles coming into the US.
2300	Ken Wierman secured the FEMA Liaison Watch.
	<b>NO FURTHER ENTRIES THIS DATE</b>

**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: 26 March 2011**

<b>TIME</b>	<b>ENTRY</b>
0550	Larry Broockerd assumes watch.
0659	Transmitted NRC SITREP to FEMA Liaison Team
0730	Meeting with Liaison Team Coordinator and Federal Liaisons
0900	Conference call with Executive Team, Liaison Team, and Commissioner's Technical Advisory Team, Public Affairs, and Duty Officers (internal to NRC)
1100	Conference call hosted by HHS with various Agencies reporting on activities/tempo
1145	Added Rebecca Fontenot and Lisa Hamilton to FEMA Liaison Contact List
1315	Contact with FEMA Liaison Team
1500	Ken Wierman assumed the FEMA Liaison Watch.
1548	Transmitted the NRC Clips from yesterday.
1704	Transmitted radiological reports from States.
1710	Received and transmitted today's REPP Sitrep.
1934	Transmitted DRAFT Recovery Plan review request to NNSA.DOE.
2007	Transmitted the 1800 NRC Status Update.
2300	Secured the FEMA Liaison Watch
	<b>NO FURTHER ENTRIES THIS DATE</b>





**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: 29 March 2011**

<b>TIME</b>	<b>ENTRY</b>
0630	Bonnie Sheffield assumed the FEMA Liaison Watch.
	Reviewed previous emails, documents etc.
0705	Transmitted NRC status update 3/29/2011 0430 to FEMA Contact List
0720	Worked on FEMA Liaison SOG for NRC Ops Center
0900	PRU conference call
0930	Worked on FEMA Liaison SOG for NRC Ops Center
0954	Transmitted NOC status to Liaison team
1000	Requested information on the RAD issues in PA
1010	Worked on FEMA Liaison SOG for NRC Ops Center
1300	Organized documents that have accrued at this time.
1500	Ken Wierman assumed the FEMA Liaison Watch.
1500	Transmitted I-131 info for PA.
1609	Transmitted FEMA REPP SitRep.
1630	Transmitted request regarding populations around US commercial nuclear power plants.
1950	Received information from A. Coons on 2004 numbers. Supplied numbers to Federal Liaison.
2000	Transmitted the 1800 NRC Status Update.
2300	Secured the FEMA Liaison Watch for today.
	<b>NO FURTHER ENTRIES THIS DATE</b>

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 2:49 PM  
**To:** Williams, Kevin  
**Subject:** RE:

Mr. Williams,

Harry Sherwood's contact information is [harry.sherwood@dhs.gov](mailto:harry.sherwood@dhs.gov) and he is using Craig Fiore's Office (703) 605-4218.

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 2:40 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Do you have Harry Sherwood's information?

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:55 PM  
**To:** Williams, Kevin  
**Subject:** FW:

Region	RAC Chair	Email	Phone
1	Steve Colman	Steve.Colman@dhs.gov	417-832-4731-O
2	Rebecca Thomson	Rebecca.Thomson@dhs.gov	212-680-8509-O (b)(6) -C
3	Darrell Hammonds	Darrell.Hammonds@dhs.gov	215-931-5546-O (b)(6) -C
4	Conrad Burnside	Conrad.Burnside@dhs.gov	770-220-5486-O (b)(6) -C
5	William King	William.King@dhs.gov	312-408-5575-O (b)(6) -C
6	Lisa Hammond	Lisa.Hammond@dhs.gov	940-898-5199-O (b)(6) -C
7	Ronald McCabe	Ronald.McCabe@dhs.gov	816-283-7007-O (b)(6) -C
8	Dan Feighert	Dan.Feighert@dhs.gov	303-235-4737-O (b)(6) -C
9	Craig Fiore	Craig.Fiore@dhs.gov	510.627.7252-O (b)(6) -C
10	Bill Webb	Bill.Webb@dhs.gov	425-427-2175-O



**Technological Hazards Division Headquarters  
Contacts**

<b>Name Last, First</b>	<b>Branch</b>	<b>Title</b>
Arszulowicz, John	REPP	Program Specialist
Barker, Ronald	CSEPP	(Emergency Preparedness)
Barnes, Joshua	REPP	Emergency Management Specialist
Broockerd, Larry	REPP	Training Specialist
Butler, Lolita	CSEPP	Secretary
Coleman-Marbury, Brenda	BizOps	Executive Assistant
Collins Jr., Richard W.	FRPCC	Program Specialist
Connell, Renae	REPP	Emergency Management Specialist
Coons, Albert	REPP	Lead Program Specialist
Darlington, Lisa	BizOps	(Emergency Preparedness)
DeFelice, Anthony	REPP	Acting Branch Chief
DeGilio, Lou	REPP	Attorney
Du, Jingtong (James)	ProfServices	Training Specialist
Eberst, William	ProfServices	Electronics Engineer
Fiore, Craig	REPP	Program Specialist
Flores, Kaori	REPP	Deputy Branch Chief
Fontenot, Rebecca	REPP	Emergency Management Specialist
Galloway, Clark	BizOps	Emergency Management Specialist
Gardner, Patricia	REPP	(Emergency Preparedness)
Gates II, Russell P. (Russ)	ProfServices	Program Specialist
Gilder, David	CSEPP	Senior Electronics Engineer
Greten, Tim	Division	Program Specialist
Hallett, Scott	REPP	Deputy Director
Halsey, LaShawn	REPP	Training Specialist
Hamilton, Lisa	REPP	Emergency Management Specialist
Hammond-Woodard, Odessa	ProfServices	Specialist
Herring, Joe	CSEPP	Emergency Management Specialist
Hobbs, Terry	CSEPP	Program Support Assistant
Horton, Douglas	REPP	Deputy Director
Horwitz, Steve	ProfServices	Acting Branch Chief
Howe, Michael	ProfServices	Attorney
Jeremy, David	REPP	Public Affairs Specialist
Kish, James	Division	Health Physicist
Mauldin, Deborah	REPP	Program Specialist
McSwain, Alonzo	BizOps	(Emergency Management)
Mingledolph, Juvart	BizOps	Director
Nash Jr., Harry W.	REPP	Emergency Management Specialist
Nevitt, Jason	BizOps	Program Specialist
Norville, Robert	CSEPP	(Emergency Preparedness)

Owens, Tamara	FRPCC	Administrative Program Specialist
Page, Christopher	tbd	Emergency Management Specialist
Purvis, James	REPP	Emergency Management Specialist
Quinn, Vanessa E.	REPP	Branch Chief
<b>Name Last, First</b>	<b>Branch</b>	<b>Title</b>
Ralston, Michelle	ProfServices	Emergency Management Specialist Program Specialist
Sanders, Tamara	BizOps	(Emergency Preparedness)
Schafer, John	ProfServices	Electronics Engineer
Scipio, Tanya	BizOps	Program/Policy Specialist
	BizOps	Branch Chief
Sheffield, Bonnie	REPP	Program Specialist (Emergency Management) Program Specialist
Strother, Thomas	BizOps	(Emergency Preparedness)
Taylor-Redman, Crystal	BizOps	Program Specialist Program Specialist
Tenorio, Pat	BizOps	(Emergency Preparedness)
Turner, Sheila	BizOps	Program Analyst
Ward, Paul	ProfServices	Health Physicist
Warnock, Thomas	CSEPP	Program Specialist
Wilt, Michael C	REPP	Emergency Management Specialist Program Specialist
Wierman, Ken	REPP	Training Specialist
	Division	Technological Hazards Division
	BizOps	Business Operations
	ProfServices	Professional Services
		Radiological Emergency Preparedness Program
	REPP	Chemical Stockpile Emergency Preparedness Program
	CSEPP	Federal Radiological Emergency Preparedness Program
	FRPCC	

Per your request. I hope this helps. Let me know if I can be of any other assistance to you.

Bonnie Sheffield

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187



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**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 12:49 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Both

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:39 PM  
**To:** Williams, Kevin  
**Subject:**

I heard through the grapevine that you need a contact list for FEMA. What do you need Regions, HQ or both? I have all that here.

Bonnie Sheffield

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NRC Operations Center  
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**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 2:24 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Thanks.

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:55 PM  
**To:** Williams, Kevin  
**Subject:** FW:

Region	RAC Chair	Email	Phone
1	Steve Colman	Steve.Colman@dhs.gov	417-832-4731-O
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6	Lisa Hammond	Lisa.Hammond@dhs.gov	940-898-5199-O (b)(6) -C
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Tenorio, Pat  
Turner, Sheila  
Ward, Paul  
Warnock, Thomas  
Wilt, Michael C

Wierman, Ken

BizOps  
BizOps  
ProfServices  
CSEPP  
REPP

REPP

Division  
BizOps  
ProfServices

REPP

CSEPP

FRPCC

Program Specialist  
(Emergency Preparedness)  
Program Analyst  
Health Physicist  
Program Specialist  
Emergency Management Specialist  
Program Specialist  
Training Specialist

Technological Hazards Division  
Business Operations  
Professional Services  
Radiological Emergency  
Preparedness Program  
Chemical Stockpile Emergency  
Preparedness Program  
Federal Radiological Emergency  
Preparedness Program

Per your request. I hope this helps. Let me know if I can be of any other assistance to you.

Bonnie Sheffield

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 12:49 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Both

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:39 PM  
**To:** Williams, Kevin  
**Subject:**

I heard through the grapevine that you need a contact list for FEMA. What do you need Regions, HQ or both? I have all that here.

Bonnie Sheffield

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NRC Operations Center  
(301) 816-5187

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---

**From:** LIA11 Hoc  
**Sent:** Friday, March 18, 2011 7:33 AM  
**To:** LIA04 Hoc  
**Subject:** FW: EPZ Paper - NRC Review Needed!  
**Attachments:** Emergency Planning Zones.doc

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 7:21 AM  
**To:** LIA11 Hoc  
**Subject:** FW: EPZ Paper - NRC Review Needed!

Ms. Reed,

Not sure you received this, so I am passing this on to you.

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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**From:** LIA05 Hoc  
**Sent:** Thursday, March 17, 2011 4:53 PM  
**To:** LIA06 Hoc  
**Subject:** FW: EPZ Paper - NRC Review Needed!

Please review.

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Thursday, March 17, 2011 4:51 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: EPZ Paper - NRC Review Needed!

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711

Blackberry: [redacted] (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

---

**From:** Purvis, James  
**To:** 'Sheffield, Bonnie' <Bonnie.Sheffield@dhs.gov>; Wierman, Kenneth  
**Cc:** Quinn, Vanessa; Greten, Timothy; 'harry.sherwood@dhs.gov' <harry.sherwood@dhs.gov>; Ralston, Michelle; Horwitz, Steve  
**Sent:** Thu Mar 17 16:48:21 2011  
**Subject:** EPZ Paper - NRC Review Needed!

REP Liaison to the NRC OPS Center:

Tim would like to ensure that the NRC finds this paper kosher, prior to piping it up to FEMA OPA & OLA for their consumption. Please coordinate this with the NRC. I don't think any kind of formal review & concurrence process is needed here – especially since the content is basically a summation of what is already delineated in FEMA-REP-1 – it is hoped this can be done expeditiously. Please keep me in the loop as this is being accomplished. The paper has been cleared through THD.

Thanks,

**James H Purvis**  
Emergency Management Specialist  
Radiological Emergency Preparedness Program  
Technological Hazards Division  
DHS/FEMA Protection and National Preparedness Directorate  
1800 South Bell Street, Room 830  
Arlington, VA 20598-3025  
Office: (202) 212-2334  
Mobile: [redacted] (b)(6)  
Fax: (703) 305-0738  
[james.purvis@dhs.gov](mailto:james.purvis@dhs.gov)

---

**WARNING:** This Communication is **FOR OFFICIAL USE ONLY (FOUO)** and may contain **PRIVACY SENSITIVE** information. It is to be controlled, stored, handled, transmitted, distributed, and disposed of in accordance with DHS policy relating to FOUO information. This information shall not be distributed beyond the original addressees without prior authorization of the originator. This communication, along with any attachments, is covered by Federal and State law governing electronic communications and may contain restricted and legally privileged information. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, use or copying of this message is strictly prohibited. If you have received this in error, please reply immediately to the sender and delete this message.

---

**From:** Anderson, Joseph  
**Sent:** Friday, March 18, 2011 8:13 AM  
**To:** Williams, Kevin  
**Cc:** LIA06 Hoc  
**Subject:** Fw: EPZ Paper - NRC Review Needed!  
**Attachments:** Emergency Planning Zones.doc

Are you available to look at this? I am running about at USAID.

---

**From:** LIA06 Hoc  
**To:** Williams, Kevin; Kahler, Robert; Anderson, Joseph  
**Cc:** LIA06 Hoc  
**Sent:** Fri Mar 18 08:09:42 2011  
**Subject:** FW: EPZ Paper - NRC Review Needed!

Gentlemen,

FEMA has requested NRC review of the attached document they want to make public. The PMT has reviewed and has no comments. Brian McDermott wanted me to also pass it by you all to make sure you were ok with it. Please take a look and let me know as soon as you can.

Thanks,  
Mark Lombard  
Liaison Team Director  
U.S. Nuclear Regulatory Commission  
Operations Center

**From:** LIA06 Hoc  
**Sent:** Thursday, March 17, 2011 4:56 PM  
**To:** Hoc, PMT12; Kahler, Robert; Anderson, Joseph  
**Subject:** FW: EPZ Paper - NRC Review Needed!

Please take a look at the attached information that FEMA is planning to put and let me know if you have any issues with it.

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

**From:** LIA05 Hoc  
**Sent:** Thursday, March 17, 2011 4:53 PM  
**To:** LIA06 Hoc  
**Subject:** FW: EPZ Paper - NRC Review Needed!

Please review.

FEMA REP Liaison



NRC Operations Center  
(301) 816-5187

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**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Thursday, March 17, 2011 4:51 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: EPZ Paper - NRC Review Needed!

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry: (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

---

**From:** Purvis, James  
**To:** 'Sheffield, Bonnie' <Bonnie.Sheffield@dhs.gov>; Wierman, Kenneth  
**Cc:** Quinn, Vanessa; Greten, Timothy; 'harry.sherwood@dhs.gov' <harry.sherwood@dhs.gov>; Ralston, Michelle; Horwitz, Steve  
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REP Liaison to the NRC OPS Center:

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Thanks,

**James H Purvis**  
Emergency Management Specialist  
Radiological Emergency Preparedness Program  
Technological Hazards Division  
DHS/FEMA Protection and National Preparedness Directorate  
1800 South Bell Street, Room 830  
Arlington, VA 20598-3025  
Office: (202) 212-2334  
Mobile: (b)(6)  
Fax: (703) 305-0738  
[james.purvis@dhs.gov](mailto:james.purvis@dhs.gov)

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**From:** Hoc, PMT12  
**Sent:** Thursday, March 17, 2011 8:17 PM  
**To:** LIA06 Hoc; Kahler, Robert; Anderson, Joseph  
**Subject:** RE: EPZ Paper - NRC Review Needed!

PMT has no comments.

**From:** LIA06 Hoc  
**Sent:** Thursday, March 17, 2011 4:56 PM  
**To:** Hoc, PMT12; Kahler, Robert; Anderson, Joseph  
**Subject:** FW: EPZ Paper - NRC Review Needed!

Please take a look at the attached information that FEMA is planning to put and let me know if you have any issues with it.

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

**From:** LIA05 Hoc  
**Sent:** Thursday, March 17, 2011 4:53 PM  
**To:** LIA06 Hoc  
**Subject:** FW: EPZ Paper - NRC Review Needed!

Please review.

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Thursday, March 17, 2011 4:51 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: EPZ Paper - NRC Review Needed!

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry: [REDACTED] (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

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**From:** Purvis, James  
**To:** 'Sheffield, Bonnie' <Bonnie.Sheffield@dhs.gov>; Wierman, Kenneth  
**Cc:** Quinn, Vanessa; Greten, Timothy; 'harry.sherwood@dhs.gov' <harry.sherwood@dhs.gov>; Ralston, Michelle; Horwitz, Steve  
**Sent:** Thu Mar 17 16:48:21 2011  
**Subject:** EPZ Paper - NRC Review Needed!

REP Liaison to the NRC OPS Center:

Tim would like to ensure that the NRC finds this paper kosher, prior to piping it up to FEMA OPA & OLA for their consumption. Please coordinate this with the NRC. I don't think any kind of formal review & concurrence process is needed here – especially since the content is basically a summation of what is already delineated in FEMA-REP-1 – it is hoped this can be done expeditiously. Please keep me in the loop as this is being accomplished. The paper has been cleared through THD.

Thanks,

**James H Purvis**  
Emergency Management Specialist  
Radiological Emergency Preparedness Program  
Technological Hazards Division  
DHS/FEMA Protection and National Preparedness Directorate  
1800 South Bell Street, Room 830  
Arlington, VA 20598-3025  
Office: (202) 212-2334  
Mobile: (b)(6)  
Fax: (703) 305-0738  
[james.purvis@dhs.gov](mailto:james.purvis@dhs.gov)

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**From:** Sheffield, Bonnie <Bonnie.Sheffield@dhs.gov>  
**Sent:** Saturday, March 19, 2011 12:37 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: FEMA Staff in Crystal City  
**Attachments:** 20110318\_REPP\_SITREP\_JapanEarthquake\_final.docx

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Sent using BlackBerry

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**From:** Simpson, John <john.simpson@dhs.gov>  
**To:** Sheffield, Bonnie <Bonnie.Sheffield@dhs.gov>  
**Cc:** Horwitz, Steve <steve.horwitz@dhs.gov>  
**Sent:** Sat Mar 19 11:40:19 2011  
**Subject:** FW: FEMA Staff in Crystal City

Bonne....attached is yesterday's (1600 EDT) SITREP.

**From:** Horwitz, Steve  
**Sent:** Saturday, March 19, 2011 11:26 AM  
**To:** Simpson, John  
**Subject:** Re: FEMA Staff in Crystal City

John, also please send Bonnie yesterday's SitRep.

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Sent using BlackBerry

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**From:** Simpson, John  
**To:** bonnie.sheffield@dhs.gov <bonnie.sheffield@dhs.gov>; Horwitz, Steve; Raiston, Michelle  
**Cc:** vanessa.quinn@dhs.gov <vanessa.quinn@dhs.gov>; Sherwood, Harry  
**Sent:** Sat Mar 19 11:23:39 2011  
**Subject:** FW: FEMA Staff in Crystal City

Bonnie....here are bullets that capture our involvement today. I'll look for the addressees to add to this list:

Media monitoring, situational awareness

Participation in teleconferences with our federal partners

Dialogue with Regional offices and RAC Chairs in response to questions from our state and local partners

Review and refinement of technologies to collect, analyze, and disseminate emergency information

Preparation of daily SITREP

**From:** Simpson, John  
**Sent:** Saturday, March 19, 2011 11:14 AM

**To:** bonnie.sheffield@dhs.gov  
**Subject:** FEMA Staff in Crystal City

Bonnie....I spoke with Vanessa. Can we talk for a bit? My cell is

(b)(6)

JOHN D. SIMPSON

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**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:31 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: FEMA Staff in Crystal City  
**Attachments:** TH Activities.docx

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

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**From:** Sheffield, Bonnie [mailto:Bonnie.Sheffield@dhs.gov]  
**Sent:** Saturday, March 19, 2011 12:29 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: FEMA Staff in Crystal City

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Sent using BlackBerry

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**From:** Sherwood, Harry <harry.sherwood@dhs.gov>  
**To:** Simpson, John <john.simpson@dhs.gov>; Sheffield, Bonnie <Bonnie.Sheffield@dhs.gov>; Horwitz, Steve <steve.horwitz@dhs.gov>; Ralston, Michelle <Michelle.Ralston@dhs.gov>  
**Cc:** Quinn, Vanessa <Vanessa.Quinn@dhs.gov>; Kish, James <James.Kish@dhs.gov>; Greten, Timothy <Timothy.Greten@dhs.gov>; Seward, Andrew <Andrew.Seward1@dhs.gov>; Feighert, Dan <dan.feighert@dhs.gov>  
**Sent:** Sat Mar 19 11:45:16 2011  
**Subject:** RE: FEMA Staff in Crystal City

Allcon,

Here is the ongoing status update as of 1100.

Feel free to use this and add to it as required.

Thanks,

Harry

**From:** Simpson, John  
**Sent:** Saturday, March 19, 2011 11:24 AM  
**To:** bonnie.sheffield@dhs.gov; Horwitz, Steve; Ralston, Michelle  
**Cc:** vanessa.quinn@dhs.gov; Sherwood, Harry  
**Subject:** FW: FEMA Staff in Crystal City

Bonnie....here are bullets that capture our involvement today. I'll look for the addressees to add to this list:

Media monitoring, situational awareness

Participation in teleconferences with our federal partners

Dialogue with Regional offices and RAC Chairs in response to questions from our state and local partners

Review and refinement of technologies to collect, analyze, and disseminate emergency information

Preparation of daily SITREP

**From:** Simpson, John

**Sent:** Saturday, March 19, 2011 11:14 AM

**To:** bonnie.sheffield@dhs.gov

**Subject:** FEMA Staff in Crystal City

Bonnie....I spoke with Vanessa. Can we talk for a bit? My cell is

(b)(6)

JOHN D. SIMPSON

FEMA Technological Hazards Division Status as of 1100EDT 19MAR2011

THD has been operational continuously from 0630 March 11

Initial support was provided in coordinating with FEMA Region IX on the status of Offsite Preparedness at Diablo Canyon Power Plant and San Onofre Nuclear Generating Station due to Tsunami Warnings in the event a Disaster Initiated Review was necessary.

THD has maintained liaisons at NRCC, NRC, USAID and IMAT

Responding to information requests in support of ESF-5 and ESF-15 specific to offsite response organization planning procedures and preparedness at domestic nuclear power plants and general information on the Radiological Emergency Preparedness Program.

THD is maintaining media monitoring and trend analysis specific to offsite preparedness.

Regional continues to provide situational awareness, and information requests from State counterparts and Offsite response organizations and furnishing background information to Regional Offices.

All other requests are being referred to the applicable agency.

All normal Radiological Emergency Preparedness Program and Chemical Stockpile Emergency Preparedness Program activities remain on schedule.

THD continues to maintain 24/7 watch capability.



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**From:** LIA05 Hoc  
**Sent:** Tuesday, March 29, 2011 4:08 PM  
**To:** LIA06 Hoc; LIA08 Hoc; LIA07 Hoc; LIA01 Hoc; LIA11 Hoc  
**Subject:** FW: SITREP 20110329  
**Attachments:** SITREP 2011-03-29 REPP Japan Earthquake.doc

Please find the attached FEMA REP SitRep for 29 March 2011.

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

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**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Tuesday, March 29, 2011 4:07 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: SITREP 20110329

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry: (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

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**From:** Simpson, John <john.simpson@dhs.gov>  
**To:** Colman, Steve <steve.colman@dhs.gov>; Thomson, Rebecca <rebecca.thomson@dhs.gov>; Hammons, Darrell <darrell.hammons@dhs.gov>; Burnside, Conrad <conrad.burnside@dhs.gov>; King, William <William.King@dhs.gov>; Hammond, Lisa <lisa.hammond@dhs.gov>; McCabe, Ron <ron.mccabe@dhs.gov>; Feighert, Dan <dan.feighert@dhs.gov>; Fiore, Craig <craig.fiore@dhs.gov>; Webb, Bill <bill.webb@dhs.gov>  
**Cc:** Sherwood, Harry <harry.sherwood@dhs.gov>; Ralston, Michelle <Michelle.Ralston@dhs.gov>; Hlavaty-LaPosa, Janet <janet.hlavaty-laposa@dhs.gov>; Quinn, Vanessa <Vanessa.Quinn@dhs.gov>; Coons, Albert <albert.coons@dhs.gov>; Purvis, James <james.purvis@dhs.gov>; Greten, Timothy <Timothy.Greten@dhs.gov>; Sheffield, Bonnie <Bonnie.Sheffield@dhs.gov>; Wierman, Kenneth <kenneth.wierman@dhs.gov>; Freeman, Carol (CTR) <Carol.Freeman@associates.dhs.gov>; (b)(6)@icfi.com; Bischof, Bill <bill.bischof@dhs.gov>; Simpson, John <john.simpson@dhs.gov>; Jeremy, David <David.Jeremy@dhs.gov>; Fontenot, Rebecca <Rebecca.Fontenot@dhs.gov>; DeFelice, Anthony C <anthony.defelice@dhs.gov>; Horton, Douglas A <Douglas.Horton@dhs.gov>; Howe, Michael <Michael.Howe@dhs.gov>; Horwitz, Steve <steve.horwitz@dhs.gov>; (b)(6)@icfi.com  
**Sent:** Tue Mar 29 16:05:19 2011  
**Subject:** SITREP 20110329

- The FEMA THD SITREP for March 29, 2011 is attached.

<b>Earthquake / Tsunami Status Update - REPP Response Operations SITREP</b>	
Situation Reporting Period:	
<b>Date/Time:</b>	<b>29 March 2011 1600 EDT</b>
<b>Incident:</b>	Earthquake & Tsunami effecting nuclear power plants
<b>Location of Incident:</b>	Northern Japan
<b>Incident Period:</b>	11 March 2011; 0946 EST
<b>POC &amp; Phone #:</b>	Steve Horwitz, Outreach – Public Affairs Officer (703) 605-1208 Dan Feighert – RAC Chair, Region VIII (202) 212-1370 John D. Simpson – Public Outreach Specialist (312) 718-1991

**Summary of Events**

A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan caused catastrophic damage to buildings and infrastructure, and widespread loss of electricity, to the northern coast of Japan. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant; and interrupted primary cooling of nuclear fuel both within the reactors and within spent fuel pools (SFP), at four of the six nuclear reactors, initiating a radiation emergency.

The Japanese national government instructed evacuation for local residents within a 20km radius of the site boundary and sheltering in place out to 30 km. The International Atomic Energy Agency (IAEA) confirms a no-fly zone out to 30 km around the Fukushima Daiichi plant. Japanese government officials have recommended to residents living within 20 to 30 km of the site to voluntarily evacuate their homes – not because of changing conditions at the site – but because of increasingly difficult logistical issues.

**Current Initiatives and Actions:**

The current protective action recommendation for U.S. citizens residing within 50 miles (80 km) of the Fukushima Daiichi site is to evacuate. One train of temporary cooling equipment has been transported to Yokota Air Force Base.

The Nuclear Regulatory Commission (NRC) Reactor Safety Team has provided a set of recommendations pertaining to severe accident management strategies to the NRC team in Japan. The recommendations were coordinated with General Electric Hitachi (GEH), Electric Power Research Institute, Institute of Nuclear Power Operations (INPO), Naval Reactors, and the U.S. Department of Energy (DOE). Further modifications to these recommendations may be considered if primary containment for Units 2 and 3 cannot be assured.

The U.S. Environmental Protection Agency (EPA) and DOE are the Federal communicators for questions regarding possible domestic impacts from the events in Japan and on domestic monitoring.

The NRC has established a senior level agency task force to conduct a methodical and systematic review of NRC processes and regulations with specific near-term and long-term objectives.

**NRCC/IMAT**

- No significant changes for 03-29-11

**THD**

- No significant changes for 03-29-11

**NOC:**

- **Current: The Japanese National Police Agency reports 11,044 (+132) confirmed fatalities and 17,339**

(+1,095) people missing. Open source reports residents of Oshima, off the coast of Kessennuma, had their first full day of electrical power today. Embassy Tokyo distributed 314 packets of potassium iodide to private U.S. citizens on March 27, bringing the total number distributed to 1,022. U.S. Forces Japan distributed potassium iodide to 96 percent of personnel and their dependents. Tokyo Electric Power Company (TEPCO) reports they have removed the contaminated water from Unit 1, but the method employed will not work for the other units. The Nuclear Regulatory Commission (NRC) experts are working with TEPCO to identify a solution. U.S. Pacific Command reports efforts to restore power and enhance cooling has slowed due to contaminated water in the Units. Contaminated water from Unit 1 is being stored in water tanks. Freshwater injections continue in Unit 1, 2, and 3 and sea water injections to Unit 4. IAEA reports radiation measurements in the containment vessels and suppression chambers of Units 1, 2, and 3 have decreased as of March 27. Unit 1, 2, 3, and 4 continue to emit steam.

- **Future:** NRC personnel are working to connect a pump to the U.S. Navy barge and expect to begin pumping fresh water to the facility by March 29. Current meteorological data indicates winds are primarily from the west (headed offshore) and should generally continue in this direction through March 30.
- **Other:** U.S. Navy vessels are conducting port clearance operations in Port Miyako, north of the Fukushima Plants.

**Nuclear Reactor Status, Fukushima Daiichi Nuclear Power Plant:**

- One train of temporary cooling equipment has been transported to Yokota Air Force Base. Two fresh water barges from the U.S. Navy are en route to the Daiichi site.
- On March 25, 2011, NRC assigned revised priorities to Units 1 through 4. This was based on analysis by the Reactor Safety Team. Unit 1 is priority 1 based on the fact that primary containment integrity can still be preserved if the responders take the correct actions to inject to the RPV and Primary containment. Unit 2 is priority 2 because of the apparent damage to primary containment and the other barriers to release. This damage requires continued attention to cool the core and provide water to the primary containment to minimize potential for release. Unit 3 is priority 3, because primary containment may be okay but continued attention is required to pursue core cooling and injection. Unit 4 is priority 4 because progress has been made in addressing the spent fuel pool heat removal requirements and the SFP area has indicated temperatures of less than 100 °C.

*Unit 1 - (NRC Priority 1)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO); the volume of sea water injected to cool the core has left enough salt to fill the lower plenum to the core plate (Source: GEH, U.S. Industry); vessel temperatures 139°C at bottom drain, 299°C at FW nozzle (Source: NISA); RPV at 54.8 psia (decreasing trend), DW and torus pressure at 39.2 psia (decreasing trend) (Source: NISA)

**Core Cooling:** Fresh water injection initiated at 1537 JST on March 25, injecting through FW 120 L/min or 31.7 g/m (Source: NISA); recirculation pump seals have likely failed (Source: GEH)

**Primary Containment:** Not damaged, 40 psia (TEPCO was considering venting on March 24)

**Secondary Containment:** Severely damaged (hydrogen explosion)

**Spent Fuel Pool:** Fuel covered, no seawater injected (Source: JAIF, NISA, TEPCO); all fuels in this pool are over 12 years old and have very little heat input (<0.1 MW) (Source: DOE)

**Rad Levels:** DW 3370 R/hr, Torus 2110 R/hr (source instruments unknown); outside plant: 12mR/hr at main gate (slight trend downward) (Source: MEXT)

**Power:** Electric power available, equipment testing in progress (Source: JAIF, NISA, TEPCO); external AC power to the Main Control Room of Unit 1 became available at 1130 JST on March 24; lighting operating in Main Control Room

**Other:** Planning to install equipment to inert Unit 1 by March 30<sup>th</sup>

*Unit 2 - (NRC Priority 2)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO); bottom head temperature 81.5°C, feed water nozzle temperature 130°C (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Fresh water with boric acid injection as of 1010 JST on March 26 (TEPCO); recirculation pump seals have likely failed (Source: GEH)

**Primary Containment:** Damage suspected (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO), hole in refuel floor siding (Source: visual)

**Spent Fuel Pool:** Fuel covered, seawater injected on March 20, fuel pool temperature 46°C (Source: JAIF, NISA, TEPCO)

**Rad Levels:** DW 4050 R/hr; Torus 139 R/hr (source instruments unknown); outside plant: **12mR/hr** at main gate (slight trend downward) (Source: MEXT)

**Power:** External AC power has reached the unit; checking integrity of equipment before energizing; power distribution panels connected (IAEA 3/27)

*Unit 3 - (NRC Priority 3)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO); bottom head temperature 123°C, FW nozzle temperature: Unreliable (Source: JAIF, NISA 0800 JST March 28, TEPCO)

**Core Cooling:** Freshwater injection via fire line initiated 1802 JST March 25 (Source: NISA); seawater injection through RHR; recirculation pump seals have likely failed (Source: GEH)

**Primary Containment:** Damage suspected (Source: NISA, TEPCO); "not damaged" (Source: JAIF).

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level (Source: JAIF, NISA, TEPCO), spraying and pumping seawater into the SFP via the Cooling and Purification Line (Source: NISA)

**Rad Levels:** DW 3150 R/hr, Torus 124 R/hr (INPO source instruments unknown); outside plant: **12mR/hr** at main gate (slight trend downward) (Source: MEXT); 100 R/hr debris outside Rx building (covered)

**Power:** External AC power has reached the unit; checking integrity of equipment before energizing; lighting operating in Main Control Room

*Unit 4 - (NRC Priority 4)*

**Core Status:** Offloaded 105 days at time of accident (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Not necessary (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Not applicable (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Severely damaged, hydrogen explosion (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level, spraying with sea water, hydrogen from the fuel pool exploded, fuel pool is cool, heating up very slowly (Source: JAIF, NISA, TEPCO); temperature is unknown (Source: NISA); video was to be taken of SFP pool on March 24 (Source: unverified)

**Power:** External AC power has reached the unit; checking electrical integrity of equipment before energizing. (Source: JAIF, NISA, TEPCO); power distribution panels connected (IAEA 3/27)

*Unit 5 - (NRC Priority 5)*

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, RHR pump repaired, temperature 37.9°C (Source: JAIF, NISA, TEPCO)

**Power:** External AC power supplying the unit, diesel generators available (Source: JAIF, NISA, TEPCO)

*Unit 6 - (NRC Priority 6)*

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, temperature 22°C (Source: JAIF, NISA, TEPCO)  
**Power:** External AC power supplying the unit, diesel generators available (Source: JAIF, NISA, TEPCO)

**Common Spent Fuel Pool** (NRC priority: 7): 6,000 bundles (Source: GEH); water level maintained at 39°C (Source: NISA); water spray started at 2137 EDT March 20 (Source: NISA); normal cooling started 1805 JST March 24 (Source: NISA)

**Electrical Power** (NRC priority: 7): Offsite power connected to Unit 2 auxiliary transformer /distribution panel; work continues on energizing equipment in Unit 2

**Dry Cask Storage:** Visual inspection revealed no problems. All casks are vertical casks manufactured by Hitachi Shipbuilding (Source: RST)

*USNRC Emergency Operations Center Status Update*

- NRC has issued numerous press releases related to the earthquake and tsunami. These press releases can be found online at: <http://www.nrc.gov/reading-rm/doc-collections/news/2011/>
- NRC has posted a list of frequently asked questions on their website. The questions and answers can be found in the attached document below.

**Current Top Priorities:**

- Continued assessment of radiological conditions, dose projections, and protective action recommendations.
- Providing technical assistance to the U.S. Ambassador in Japan and the Japanese Government.
- Coordination with other U.S. Departments and Agencies, INPO, Bechtel, GEH, TEPCO, and the Japanese military.

*Protective Measures Team (PMT) Update*

The PMT continues to aggregate and assess available dose rate information from DOE Aerial Monitoring operations, the U.S. Navy, and TEPCO. Multi-day trending of available onsite monitors shows slightly declining dose rates over the past several days. Based upon information received on March 28, dose rates at the main gate were about 12 mR/hr (Source: MEXT). **This shows a continued slight trend downward. Historical Ministry of Education, Culture, Sports, Science and Technology (MEXT) data does appear to show slight increases in dose rates (2 – 3 mR/hr) when wind shifts such that monitors are downwind of the site.**

Potential ingestion pathway radiation measurements made by the Japanese government on food from regions near the Daiichi site exceed the values established by the U.S. Food and Drug Administration. According to the Japanese Ministry of Economy, Trade, and Industry (METI) on March 26, the governors of Fukushima, Ibaraki, Tochigi, and Gunma Prefectures have been directed to issue suspension of shipment and restriction of intake for various vegetables and milk. In addition, restriction of drinking tap water (for all residents in some cases, and only for babies in others) has been issued in specific locations within Fukushima, Ibaraki, and Chiba Prefectures. The METI report (#57) issued on March 27 did not change these restrictions (Source: METI). The report is attached below.

**The PMT evaluated information from TEPCO and the Nuclear and Industrial Safety Agency (NISA) regarding levels of Plutonium sampled on site. The levels (5.4X10<sup>-1</sup> Bq/kg) are very low, and below background levels applicable to the eastern range of the Rocky Mountains (in the U.S.).**

The PMT received comments on recommended guidance for short term re-entry of U.S. citizens to evacuated areas from NSS (White House), via EPA. Comments were addressed and EPA concurred on the guidance. This guidance was provided back to NSS on March 28.

~~FOUO~~

~~FOUO~~

~~FOUO~~

The METI report from March 27 indicated that the two injured workers would be discharged from the hospital on March 28.

PMT completed a requested breakdown of release assumptions by each unit, and the assumed core inventories for Dr. Holdren, OSTP. The source term used from RASCAL was questioned by the White House; the PMT has re-evaluated and determined that RASCAL results are accurate based on scenario assumptions. A discussion of the NRC evaluation on the validity of the source term was sent to OSTP on March 27.

The PMT is working on Japan embassy questions on the 50 mile evacuation recommendation by the U.S.

**REPP Updates**

## Technological Hazards Division

- THD SharePoint page: <https://esw.fema.net/esw/NPD/THD/default.aspx> (Only FEMA employees have access.)

## Staff on Detail:

- Dan Feighert (Region VIII) has been detailed to FEMA Hq.
- Bonnie Sheffield and Ken Wierman are detailed to the NRC Hq Operations Center.
- John Simpson (Region V) is detailed to THD.

**~~NOTE to readers that FOUO material should not be shared outside of the federal government.~~** Please refer inquiries regarding exercise reports to the NRC Reading Room: <http://nrc.gov/reading-rm.html>

Please collect and continue to submit questions to Hq.

Please submit all public meetings, events, exercises, etc. to Hq to be drawn into a calendar of events that will be shared.



**Requested Personnel (DRWs)**

REPP Business Operations has coordinated with THD leadership for 24/7 on-call coverage.

**New Resource Requirements**

TBD

**Anticipated Resources / Services / Personnel (Next 48-96 hours)**

**Shortfalls / Limiting Factors**

**Future Operations Planning / Sustainment - Next 48 hours and out**

TBD

**Funding Source and Cost Data**

REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.

**Retrograde Planning & Execution**

TBD

**Other Significant Information**



NRC 2011-03-19  
faqs-related-to-japar



METI 2011-03-27  
1530 METI News Rek

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**From:** LIA07 Hoc  
**Sent:** Sunday, March 27, 2011 4:26 PM  
**To:** OST04 Hoc  
**Subject:** FW: SITREP 2011-03-27  
**Attachments:** SITREP 2011-03-27 REPP Japan Earthquake.doc

**From:** LIA05 Hoc  
**Sent:** Sunday, March 27, 2011 3:30 PM  
**To:** LIA06 Hoc; LIA08 Hoc; LIA01 Hoc; LIA11 Hoc; LIA07 Hoc  
**Subject:** FW: SITREP 2011-03-27

Please find the attached FEMA REPP Sitrep for today.

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

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**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Sunday, March 27, 2011 3:29 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: SITREP 2011-03-27

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
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Sent using BlackBerry

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**From:** Coons, Albert  
**To:** Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; 'Hammond, Lisa' <lisa.hammond@dhs.gov>; McCabe, Ron; Feighert, Dan; Fiore, Craig; Webb, Bill  
**Cc:** Sherwood, Harry; Ralston, Michelle; Hlavaty-LaPosa, Janet; Quinn, Vanessa; Coons, Albert; Purvis, James; Greten, Timothy; Sheffield, Bonnie; Wierman, Kenneth; (b)(6)@icfi.com>; (b)(6)@icifi.com' <(b)(6)@icifi.com>; Bischof, Bill; 'Simpson, John' <john.simpson@dhs.gov>  
**Sent:** Sun Mar 27 15:27:35 2011  
**Subject:** SITREP 2011-03-27

Attached please find the March 27, 2011 Situation Report.

Albert Coons  
Lead Program Specialist  
HQ/NPD-THD-REPP  
FEMA  
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Earthquake / Tsunami Status Update - REPP Response Operations SITREP	
Situation Reporting Period:	
<b>Date/Time:</b>	27 March 2011 1600 EDT
<b>Incident:</b>	Earthquake and tsunami effecting nuclear power plants
<b>Location of Incident:</b>	Northern Japan
<b>Incident Period:</b>	11 March 2011; 0946 EST
<b>POC &amp; Phone #:</b>	Albert Coons, Team Lead, 202-309-6520 John D. Simpson, Public Outreach Specialist, 312-718-1991

### Summary of Events

A 9.0 magnitude earthquake 80 miles east of Sendai, Honshu Island, Japan, caused catastrophic damage to buildings and infrastructure, and widespread loss of electricity, on the northern coast of the Japanese mainland. A subsequent tsunami disabled auxiliary power generation at the Fukushima Daiichi Nuclear Power Plant, and interrupted primary cooling of nuclear fuel, both within the reactors and within spent fuel pools (SFP), at four of the six nuclear reactors.

#### Current Initiatives and Actions:

The current protective action recommendation for U.S. citizens residing within 50 miles (80 km) of the Fukushima Daiichi site is to evacuate. One train of temporary cooling equipment has been transported to Yokota Air Force Base. Two fresh water barges from the U.S. Navy are en route to the Daiichi site.

The NRC Reactor Safety Team has provided a set of recommendations pertaining to severe accident management strategies to the NRC team in Japan. The recommendations were coordinated with GEH, EPRI, INPO, Naval Reactors, and DOE.

The U.S. Department of Energy and the U.S. Environmental Protection Agency are the Federal communicators for questions regarding possible domestic impacts from the events in Japan and on domestic monitoring.

The Nuclear Regulatory Commission has established a senior level agency task force to conduct a methodical and systematic review of NRC processes and regulations with specific near-term and long-term objectives.

#### NRCC/IMAT

- No significant changes for 03-27-11

#### THD

- No significant changes for 03-27-11

#### NOC:

- **Current:** The Japanese National Police Agency reports 10,151 (+116) confirmed fatalities and 17,053 (-390) people missing. Tokyo Electrical Power Company (TEPCO) has restored electrical power to all six units at the Fukushima Daiichi Nuclear Power Plant. Fresh water flow to Units 1, 2, and 3 has been restored. The US Nuclear Regulatory Commission (NRC) reports the Protective Measures Team (PMT), assessing available dose rate information from 25-26 Mar, shows slightly declining dose rates at Fukushima Daiichi Nuclear Power Plant's front gate. The Department of Defense reports they have flown 1,113 humanitarian assistance flights in support of Operation TOMODACHI. Operation PACIFIC PASSAGE has transported 5,162 passengers to destinations in the US. There

are two flights on standby for Monday, 28 Mar with 410 open seats. Two U.S. Navy fresh-water barges were requested by the Government of Japan, the first barge has arrived in Onahama. The estimated time of arrival of the second barge is 28 Mar.

- **Future:** TEPCO reports no rolling blackouts will be scheduled for 27 Mar. Current meteorological data indicates offshore winds from northwest to west, until Tuesday, 29 Mar, then shifting to offshore southwest winds. The Department of Homeland Security National Operations Center will continue to monitor this event and will publish the next Update Report at 0600 EDT, 27 Mar.
- **Other:** The US Department of Energy reports many other foreign governments have advised their citizens in Japan to voluntarily evacuate areas within 50 miles from the Fukushima Daiichi Nuclear Power Plant, consistent with US recommendations.
- **Environmental Protection Agency's RadNet radiation air monitors across the U.S. show typical fluctuations in background radiation levels. The levels detected are far below levels of concern. The U.S. Department of State reports the first samples of U.S. Embassy tap water have been sent for testing and are awaiting results.**

Status of NRC Licensee and Agreement State Facilities

No new information to report

Industry Consortium

No new information to report

Fukushima Daiichi

The Japanese national government instructed evacuation for local residents within a 20km radius of the site boundary and sheltering in place out to 30 km. IAEA confirms a no-fly zone out to 30 km around the Fukushima Daiichi plant. Japanese government officials have recommended to residents living within 20 to 30 km of the site to voluntarily evacuate their homes – not because of changing conditions at the site – but because of increasingly difficult logistical issues.

**Meteorological information obtained by PMT through NARAC and other sources indicate that a 360 degree wind shift has occurred over the duration of the accident (on March 11). Current forecast meteorological data appears to indicate that winds are primarily from the west (headed offshore) and should generally continue offshore through Thursday, March 31, 2011.**

*Unit 1 (NRC Priority 1)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO).

The volume of sea water injected to cool the core has left enough salt to fill the lower plenum to the core plate (Source: GEH, US Industry). Vessel temperatures 149°C at bottom drain, 197°C at FW nozzle (Source: NISA) RPV at 65.7 psia (increasing trend), DW and torus pressure at 40 psia (decreasing trend) (Source: NISA).

**Core Cooling:** Fresh water injection initiated at 1537 JST on March 25, injecting through FW 120 L/min or 31.7 g/m (Source: NISA). Recirculation pump seals have likely failed. (Source: GEH)

**Primary Containment:** Not damaged, 40 psia (TEPCO was considering venting on March 24)

**Secondary Containment:** Severely damaged (hydrogen explosion)

**Spent Fuel Pool:** Fuel covered, no seawater injected (Source: JAIF, NISA, TEPCO)

All fuels in this pool are over 12 years old and have very little heat input (<0.1 MW) (Source: DOE).

**Rad Levels:** DW 4780 R/hr, Torus 3490 R/hr (source instruments unknown), Outside plant: 16mR/hr at main gate (slight trend downward) (Source: MEXT)

**Power:** Electric power available, equipment testing in progress (Source: JAIF, NISA, TEPCO) External AC power to the Main Control Room of Unit 1 became available at 1130 JST on March 24, 2011. Lighting operating in Main Control Room.

*Unit 2 (NRC Priority 2)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO). Bottom head temperature 104°C, feed water nozzle temperature 107°C (Source: JAIF, NISA, TEPCO).

**Core Cooling:** Fresh water with boric acid injection as of 1010 JST on March 26 (TEPCO). Recirculation pump seals have likely failed. (Source: GEH)

**Primary Containment:** Damage suspected (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO), hole in refuel floor siding (Source: visual)

**Spent Fuel Pool:** Fuel covered, seawater injected on March 20, fuel pool temperature 52°C (Source: JAIF, NISA, TEPCO)

**Rad Levels:** DW 4560 R/hr; Torus 154 R/hr (source instruments unknown); Outside plant: 16mR/hr at main gate (slight trend downward) (Source: MEXT)

**Power:** External AC power has reached the unit; checking integrity of equipment before energizing.

*Unit 3 (NRC Priority 3)*

**Core Status:** Damaged, fuel partially or fully exposed (Source: JAIF, NISA, TEPCO). Bottom head temperature 111°C, FW nozzle temperature: Unreliable (Source: JAIF, NISA 1800 JST March 25, TEPCO)

**Core Cooling:** Freshwater injection via fire line initiated 1802 JST March 25 (Source: NISA). Seawater injection through RHR, Recirculation pump seals have likely failed. (Source: GEH)

**Primary Containment:** Damage suspected (Source: NISA, TEPCO). "Not damaged" (Source: JAIF).

**Secondary Containment:** Damaged (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level (Source: JAIF, NISA, TEPCO), spraying and pumping seawater into the SFP via the Cooling and Purification Line (Source: NISA)

**Rad Levels:** DW 5100 R/hr, torus 150 R/hr (INPO source instruments unknown); Outside plant: 16mR/hr at main gate (slight trend downward) (Source: MEXT); 100 R/hr debris outside Rx building (covered).

**Power:** External AC power has reached the unit; checking integrity of equipment before energizing. Lighting operating in Main Control Room.

*Unit 4 (NRC Priority 4)*

**Core Status:** Offloaded 105 days at time of accident (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Not necessary (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Not applicable (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Severely damaged, hydrogen explosion. (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Low water level, spraying with sea water, hydrogen from the fuel pool exploded, fuel pool is cool, heating up very slowly (Source: JAIF, NISA, TEPCO). Temperature is unknown (Source: NISA). Video was to be taken of SFP pool on March 24 (Source: unverified)

**Power:** External AC power has reached the unit; checking electrical integrity of equipment before energizing. (Source: JAIF, NISA, TEPCO)

*Unit 5 (NRC Priority 5)*

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, RHR pump repaired, temperature 37.9°C (Source: JAIF, NISA, TEPCO)

**Power:** External AC power supplying the unit, diesel generators available. (Source: JAIF, NISA, TEPCO)

*Unit 6 (NRC Priority 6)*

**Core Status:** In vessel (Source: JAIF, NISA, TEPCO)

**Core Cooling:** Functional (Source: JAIF, NISA, TEPCO)

**Primary Containment:** Functional (Source: JAIF, NISA, TEPCO)

**Secondary Containment:** Vent hole drilled in rooftop to avoid hydrogen build up (Source: JAIF, NISA, TEPCO)

**Spent Fuel Pool:** Fuel pool cooling functional, temperature 22°C (Source: JAIF, NISA, TEPCO)

**Power:** External AC power supplying the unit, diesel generators available. (Source: JAIF, NISA, TEPCO)

**Common Spent Fuel Pool (NRC priority: 7):** 6,000 bundles (Source: GEH); water level maintained at 53°C

(Source: NISA); water spray started at 2137 EDT March 20 (Source: NISA); normal cooling started 1805 JST March 24 (Source: NISA)

**Electrical Power** (NRC priority: 7): Offsite power connected to Unit 2 auxiliary transformer /distribution panel; work continues on energizing equipment in Unit 2.

**Dry Cask Storage:** Visual inspection revealed no problems. All casks are vertical casks manufactured by Hitachi Shipbuilding (Source: RST)

#### Other Plants

No new information to report

#### Protective Measures Team (PMT) Update

The PMT continues to aggregate and assess available dose rate information from DOE Aerial Monitoring operations, the U.S. Navy, and TEPCO. Multi-day trending of available onsite monitors shows slightly declining dose rates over the past several days. Based upon information received on March 25 and 26, dose rates at the main gate were 16mR/hr (Source: MEXT). This shows a slight trend downward. Potential ingestion pathway radiation measurements made by the Japanese government on food from regions near the Daiichi site exceed the values established by the U.S. Food and Drug Administration (FDA). According to the Ministry of Economy, Trade, and Industry (METI) on March 26, the governors of Fukushima, Ibaraki, Tochigi, and Gunma Prefectures have been directed to issue suspension of shipment and restriction of intake for various vegetables and milk. In addition, a restriction of drinking tap water (for all residents in some cases, and only for babies in others) has been issued in specific locations within Fukushima, Ibaraki, and Chiba Prefectures. (Source: METI).

The PMT has completed a draft of the recommendations for short term reentry of personnel for retrieval of personal effects and it has been sent to OSTP, DOE and the NRC team for comment by March 27, 2011. The PMT has begun efforts to compile a comprehensive list of hypothetical source terms since the onset of the crisis in Japan that have been supplied to NARAC. The source terms are summarized in a matrix by date and reactor unit/spent fuel pool, and percent fuel melt. Furthermore, the PMT is trending exposure rate data around the site based on Ministry of Education, Culture, Sports, Science and Technology (MEXT) data which is periodically sent to the PMT. Per IAEA 1700 UTC March 24, radiation exposure on 3 TEPCO related workers was confirmed. They were working in the basement Unit 3 turbine building where contaminated water was on the floor. The radiation exposures of the 3 workers were 180mSv, 179mSv, and 173mSv. Additional information received on March 26 by METI and two workers were evaluated for possible beta burns to the legs. The evaluation concluded that the workers received a possible beta dose between 200 – 600 Rem, and concluded that treatment was unnecessary but progress will be monitored.

PMT has completed work with NARAC on the source term for Plausible Realistic Case model based on plant conditions as of March 24, 2011. Run was completed at 1400 EDT on March 25, 2011, and results have been verified by the PMT. The Plausible Realistic Case assumed partial melting of Unit 1 (70% core melt; 10%/day release), Unit 2 (33% core melt; a 5-inch sq. hole in containment), and Unit 3 (33% core melt; 100%/day release). The case did not assume any release from the spent fuel pools. Actual meteorological data and forecasts were used. Releases were assumed to occur over 12 days, and dose results were calculated for 14 days for locations in Japan. According to the RASCAL run using this source term, TEDE was greater than 5 rem out to around 2 miles and greater than 1 rem (TEDE PAG) out to around 8 miles from the plant. Adult thyroid dose was greater than 10 rem out to approximately 5.25 miles from the plant. Child thyroid dose was greater than 5 rem out to approximately 11 miles from the plant. The NARAC run is expected to be completed and provided to the PMT for review on March 26. PMT completed a requested breakdown of release assumptions by each unit, and the assumed core inventories for Dr. Holdren, OSTP. The source term used from RASCAL was questioned by the White House, and the PMT is re-evaluating how well RASCAL models the given scenario.

#### International Response

- The IAEA held a special session of the Board of Governors on March 21, 2011. Director General Amano

provided a summary of his trip to Japan. The IAEA continues to have daily press and technical briefings.

- NRC has coordinated daily with the United Kingdom's Health and Safety Executive, Canadian Nuclear Safety Commission, and French Nuclear Safety Authority.
- France has publicly posted its assessment of projected doses in Tokyo on the French Radioprotection and Nuclear Safety Institute (IRSN) website.
- Taiwan staffed their Operations Center, beginning on March 12, and continues to do so. They are providing information on assumptions for the source term and expect NRC reciprocity.
- An Institute of Nuclear Power Operations (INPO) staff member has arrived in Tokyo and is coordinating with US government staff at the Embassy.
- NRC is coordinating with the State Department to provide the US Ambassador the plume analysis to share with the Japanese government.

#### DHS Support

##### U.S. Customs and Border Protection (CBP)

- Narita and Haneda Airports are almost fully operational and nearly all regular flights are operating as scheduled. Narita Airport will install radiation measurement equipment and publish measurements on its website.

##### Department of State (DOS)

- The Education and Science Ministry announced high levels of radioactive cesium in a soil sample collected 24 miles from the Fukushima plant.

##### Department of Defense (DoD)

- The GoJ approved deployment of an unmanned helicopter to drop water in the fuel rod holding tanks.
- DoD dependents are authorized to take commercial flights. Seattle-Tacoma is the primary entry for repatriation of DoD personnel. There are currently 11 flights through March 25.

##### Requests for U.S. Assistance from the Government of Japan

- The Japanese Food Safety Commission passed an official request for a point of contact within the U.S. Government in case they need/want technical assistance or U.S. views on food safety issues
- The commercial nuclear industry has established an industry support team to immediately facilitate industry support for TEPCO during the Fukushima event response. INPO facilitated the formation of this team. This team will complement efforts of the U.S. government and is intended to provide easy access to the capabilities of the U.S. nuclear industry and assure a timely and effective industry response to emergency needs. This team is intended to function during the mitigation and stabilization phase of the Fukushima Daiichi event. It is anticipated the commercial market structure will function during the longer-term recovery and remediation phases. The following actions have been taken to make this team operational:
  - An individual has been dispatched to Tokyo to coordinate requests for assistance and technical support. This individual will work closely with the NRC team already in place and function as a key interface to communicate the technical needs of TEPCO to the industry.
  - A support organization is in place at the INPO offices in Atlanta to facilitate the location and delivery of supplies, services and materials. This organization has close contacts with all U.S.



utilities and will be expanded by March 26 with additional staffing and suppliers from the broader nuclear industry.

- A technical support organization is also in place at INPO to facilitate the timely response to requests for technical support. This organization coordinates and channels requests for technical support to utility and industry experts, Electric Power Research Institute and suppliers as appropriate to ensure timely and effective technical advice is provided. This group works closely with the NRC and other government agencies.

**REPP Updates**

Technological Hazards Division

- Jim Kish briefed FEMA's Regional Administrators on March 24 and the National Emergency Management Association on March 25. These briefings include implementation considerations for the FEMA REPP Program Manual and NRC Rulemaking, the issues driving NUREG-0654 revisions, and updates to REPP's exercise program.
- Michelle Ralston of the THD Outreach Team has been responding to queries from the FEMA Ask page: <https://faq.fema.gov/>. Ms. Ralston has also been populating the THD SharePoint or ESW page: <https://esw.fema.net/esw/NPD/THD/default.aspx> (Only FEMA employees have access.)

Staff on Detail:

- Dan Feighert (Region VIII) has been detailed to FEMA HQ.
- Bonnie Sheffield and Ken Wierman are detailed to the NRC HQ Operations Center.
- Joshua Barnes has been detailed to IMAT.
- John Simpson is detailed to FEMA HQ to support the public outreach activity.

~~NOTE to readers that FOUO material should not be shared outside of the federal government.~~ Please refer inquiries regarding exercise reports to the NRC Reading Room: <http://nrc.gov/reading-rm.html>

Please collect and continue to submit questions to HQ.

Please submit all public meetings, events, exercises, etc. to HQ to be drawn into a calendar of events that will be shared.

**Requested Personnel (DRWs)**

REPP Business Operations has coordinated with THD leadership for 24/7 on-call coverage.

**New Resource Requirements**

TBD

**Anticipated Resources / Services / Personnel (Next 48-96 hours)**

**Shortfalls / Limiting Factors**

**Future Operations Planning / Sustainment - Next 48 hours and out**

TBD

**Funding Source and Cost Data**

REPP Business Operations has determined available funding for contractor support and overtime, as warranted, for REPP staff.

**Retrograde Planning & Execution**

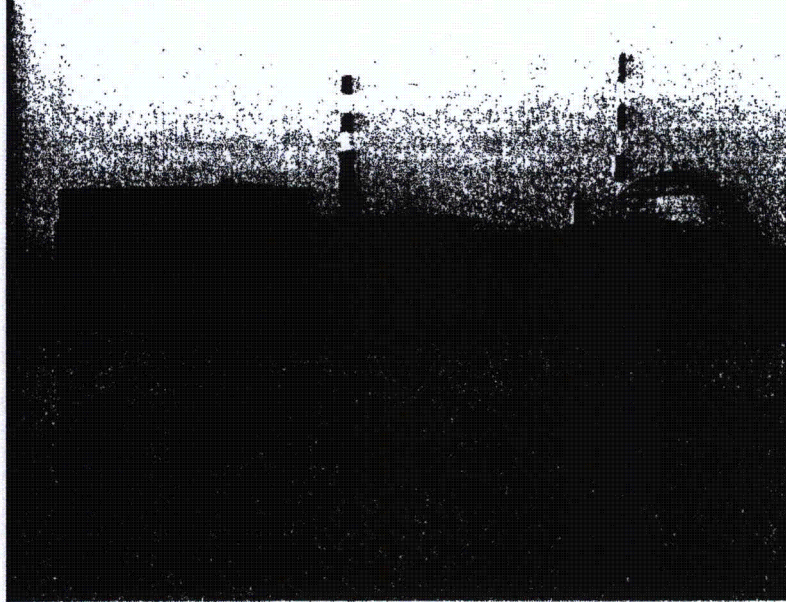
TBD

**Other Significant Information**

# State Officials Conduct Nuclear Crisis Drill

March 23, 2011 3:40 PM

Print Share 1



**JOLIET, Ill. (CBS)** - The radiation crisis in Japan has Illinois state officials watching closely. Illinois actually has the most nuclear reactors in the country and they generate half of the state's power.

CBS 2's Susanna Song reports that state officials conducted an emergency drill on Wednesday to test their readiness for a nuclear crisis here.

From talking on the phone to studying maps, top emergency officials crisscrossed into a mobile command center in Joliet with one mission in mind: make sure everyone is safe in the midst of a simulated crisis at the Dresden nuclear power plant in Morris.

Illinois Emergency Management Agency Interim Director Joe Klingler said his team is watching Japan closely and will coordinate the response.

Asked what they have learned so far from the crisis in Japan, Klingler said, "It's too early to really tell, it would be speculative on my part."

"I mean, we obviously don't have the tsunami threat that they have over there. But so can't always fear it. We think we're really good, but we can always be better," Klingler added.

He said that all six nuclear plants in Illinois must be tested every two years.

In this instance, while the drill was playing out inside the plant in Morris, teams in Joliet worked on an alternate plan.

"There's great potential for inefficiencies, because if it's not coordinated, you have people going in wrong direction," Klingler said.

The command center for the drill was located outside of the Chicago area Speedway stadium.

State officials made a strategic decision to keep their personnel outside of the four-mile radius zone of the Dresden plant.

~~FOUO~~

~~FOUO~~

~~FOUO~~

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7

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**From:** LIA05 Hoc  
**Sent:** Saturday, March 19, 2011 9:16 AM  
**To:** Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn  
**Attachments:** Log for FEMA Liaison 03182011.docx

Per your request

Bonnie Sheffield Dayshift 0700-1500  
Ken Wierman Nightshift 1500-2300  
FEMA REP Liaison  
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**From:** LIA05 Hoc  
**Sent:** Saturday, March 19, 2011 9:15 AM  
**To:** Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn  
**Attachments:** Log for FEMA Liaison 03172011.docx

Per your request

Bonnie Sheffield Dayshift 0700-1500  
Ken Wierman Nightshift 1500-2300  
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**From:** LIA05 Hoc  
**Sent:** Saturday, March 19, 2011 8:57 AM  
**To:** Markley, Michael  
**Subject:** FW: REVISED (again) - now v2.1 of Emergency Planning Zones  
**Attachments:** Emergency Planning Zones v2.1.pdf

**Importance:** High

FYI

Please find attached **Version 2.1** of the EPZ Info/fact sheet that went out earlier today. Again, this may be shared freely both internally and externally.

Version 2.1 was developed to correct a minor error in one of the references (that's it).

Bonnie Sheffield Dayshift 0700-1500  
Ken Wierman Nightshift 1500-2300  
FEMA REP Liaison  
NRC Operations Center  
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**From:** Purvis, James [mailto:james.purvis@dhs.gov]  
**Sent:** Saturday, March 19, 2011 8:35 AM  
**To:** LIA05 Hoc; Raiston, Michelle; Horwitz, Steve; Sherwood, Harry; Simpson, John; Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; Hammond, Lisa; McCabe, Ron; Feighert, Dan; Fiore, Craig; Rice, John; Hasemann, Brian; Price, John; Kinard, Richard; Robertson, Larry; Hecht, Randall; Naskrent, Gary; Flowerday, Scott; Calhoun, Nan; Valentine, Norm; Echavarría, Richard; Berkey, Johanna  
**Cc:** Seward, Andrew; Greten, Timothy; Quinn, Vanessa; Gardner, Patricia; Sheffield, Bonnie; Wierman, Kenneth; Mauldin, Deborah; Wilt, Michael C; Connell, Renae; Flores, Kaori; (b)(6)  
(b)(6)@icfi.com

**Subject:** REVISED (again) - now v2.1 of Emergency Planning Zones  
**Importance:** High

Please find attached **Version 2.1** of the EPZ Info/fact sheet that went out earlier today. Again, this may be shared freely both internally and externally.

Version 2.1 was developed to correct a minor error in one of the references (that's it).

Enjoy!

Regards,

James H Purvis



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**From:** Purvis, James  
**Sent:** Friday, March 18, 2011 11:46 PM  
**To:** 'LIA05 Hoc'; 'Ralston, Michelle'; 'Horwitz, Steve'; 'Sherwood, Harry'; 'Simpson, John'; Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; 'Hammond, Lisa'; McCabe, Ron; Feighert, Dan; Fiore, Craig; 'Rice, John'; Hasemann, Brian; Price, John; 'Kinard, Richard'; Robertson, Larry; 'Hecht, Randall'; Naskrent, Gary; Flowerday, Scott; Calhoun, Nan; Valentine, Norm; 'Echavarria, Richard'; 'Berkey, Johanna'  
**Cc:** Seward, Andrew; 'Greten, Timothy'; Quinn, Vanessa  
**Subject:** Emergency Planning Zones v2.0  
**Importance:** High

Please find attached **Version 2.0** of the EPZ Info/fact sheet that went out earlier today. Again, this may be shared freely both internally and externally.

Version 2.0 now includes listings of relevant reference documents, POC information and DHS/FEMA branding.

Regards,

**James H Purvis**  
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DHS/FEMA Protection and National Preparedness Directorate  
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# EMERGENCY PLANNING ZONES



# FEMA

## **EPZs in Brief**

Federal Emergency Management Agency (FEMA) and Nuclear Regulatory Commission (NRC) emergency preparedness planning guidance provides for two emergency planning zones (EPZs) for U.S. commercial nuclear power plants (NPPs):

- **Plume** Exposure Pathway (apx. 10 Miles in radius)
  - Designed to safeguard the population most at risk from **direct exposure** to radiation levels in excess of Environmental Protection Agency Protective Action Guidelines (PAGs)
- **Ingestion** Exposure Pathway (apx. 50 Miles in radius)
  - **Designed to protect** the public from **secondary exposure** to radiation through the food chain or public water supplies

The planning zones are intended to be scalable over time to account for changing conditions that could possibly extend outside the initial EPZ.

Specifically, NUREG-0654/FEMA-REP-1 states: "In a particular emergency, protective actions might well be restricted to a small part of the planning zone. On the other hand, for the worst possible accidents, protective actions would need to be taken outside the planning zones" (I.D., p.11) **i.e., the EPZs are the base areas requiring emergency planning – they are designed to be expanded (beyond the base of 10, 50 miles), as necessary, during emergencies.**

**Note:** The 10 & 50 mile EPZs are the Federally required minimum. FEMA and NRC regulations state that the exact size and shape of the EPZs shall be determined by the State and local governments – in consultation with FEMA and the NRC, taking into account such local conditions as demography, topography, land characteristics, access routes and local jurisdiction boundaries.(44 CFR § 350.7).

## **EPZ Evacuation Planning and Preparedness**

FEMA affirms that evacuation of the public is the preferred initial protective action in the event of a severe (core damage) emergency occurring (or likely to occur) at NPPs. Federal requirements for NPPs include the establishment of EPZs at 10 and 50-mile distances surrounding the site that detail evacuation routes. Evacuation planning includes the development and incorporation of periodic evacuation time estimate studies to inform evacuation strategies such that prompt and effective actions can be taken by offsite response organizations to protect the public in the event of a radiological emergency. This includes accounting for both permanent and transient populations, persons with disabilities and access/functional needs, those whose mobility may be impaired because of institutional or other confinement as well as provisions for the monitoring, decontamination and congregate care of evacuees, as necessary.

Where immediate evacuation of an affected population within the EPZ is not practical due to impediments (e.g., debris blocking evacuation routes, severe weather, etc.) or where evacuation could pose a greater potential health risk, temporary sheltering-in-place of the public is the preferred protective action. State, Tribal and local evacuation plans and procedures for NPP communities are reviewed and approved by FEMA. While actual evacuations of the public are not required in biennial FEMA evaluations, appropriate demonstrations by State, Tribal and local response agencies to direct and control a public evacuation is assessed.

**EPZs in Detail**

The Emergency Planning Zone (EPZ) is the area surrounding an commercial nuclear power plant (NPP) for which plans/procedures have been made to ensure that prompt and effective actions are taken to protect the health and safety of the public in case of an incident at the NPP. The Federal Emergency Management Agency (FEMA) recognizes two types of EPZs for planning purposes: the plume exposure pathway EPZ and the ingestion exposure pathway EPZ. The characteristics of these two types of EPZs are summarized in Exhibit I. Each EPZ is a roughly circular area, with the NPP at the center.

The EPZs sizes represent a technical judgment based on the type and quantity of hazardous materials present (source term) and the potential risks where detailed planning is needed to ensure adequate response to an emergency. An EPZ may include more than one State. "Split" jurisdictions (i.e., part of the jurisdiction is included in the EPZ and part is not) also exist. In these cases, EPZ boundaries are determined based on consultation with all parties involved, including State, Tribal and local governments, FEMA, and the NRC. In some cases, a conservative option is taken and the entire jurisdiction is included in the EPZ.

**Exhibit I: Plume and Ingestion EPZ Characteristics**

Type of EPZ	Exposure Sources	Size
<b>Plume Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Whole-body external exposure to gamma radiation from the passing plume and from deposited material</li> <li>• Thyroid exposure through inhalation from the passing plume</li> <li>• Committed effective dose equivalent exposure to other critical organs through inhalation</li> </ul>	Approximately 10-mile radius
<b>Ingestion Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Ingestion of contaminated water or foods, such as milk, fresh vegetables, and aquatic foodstuffs, may result in increased risk of radiation-induced cancer to the thyroid, bone marrow, and other organs</li> </ul>	Approximately 50-mile radius

The size of the **plume exposure pathway** EPZ, about 10 miles in radius, is based on the following considerations from NUREG-0654/FEMA-REP-1:

- Projected doses from traditional design-basis accidents/incidents would not exceed the Environmental Protection Agency Protective Action Guideline (PAG) levels outside the zone;
- Projected doses from most core damage sequences would not exceed PAG levels outside the zone;
- For the worst-case core damage sequences, immediate life-threatening doses would generally not occur outside the zone; and
- **Detailed planning within approximately 10 miles would provide a substantial base for expansion of response efforts to a larger area, if necessary.**

The size of the **ingestion exposure pathway** EPZ, about 50 miles in radius, including the 10-mile radius plume exposure pathway EPZ, is based on the following considerations:

- The downwind range within which contamination may potentially exceed the PAGs is limited to about 50 miles from an NPP because of wind shifts during the release and travel periods;
- Atmospheric iodine (i.e., iodine suspended in the atmosphere for long periods) may be converted to chemical forms that do not readily enter the ingestion pathway; and
- Much of the particulate material in a radioactive plume would have been deposited on the ground within about 50 miles from the NPP.

The likelihood of exceeding ingestion exposure pathway PAG levels at 50 miles is comparable to the likelihood of exceeding plume exposure pathway PAG levels at 10 miles.

### References

- Title 10 Code of Federal Regulations Part 50
- Title 44 Code of Federal Regulations Part 350
- *Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants*, NUREG-0654/FEMA-REP-1, Rev. 1, 1980
- *Manual of Protective Action Guides and Protective Actions for Nuclear Incidents*, EPA-400-R-92-001, May 1992

### Contact Information

THD-Outreach-Team@fema.gov

**From:** LIA04 Hoc  
**Sent:** Thursday, March 24, 2011 1:08 PM  
**To:** Collins, Elmo; Dean, Bill; Heck, Jared; McCree, Victor; Pederson, Cynthia; Satorius, Mark; Easson, Stuart; Flannery, Cindy; LIA04 Hoc; Lukes, Kim; Maupin, Cardelia; Noonan, Amanda; OST05 Hoc; Rautzen, William; Rivera, Alison; Ryan, Michelle; Turtill, Richard; Virgilio, Rosetta; Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tift, Doug; Trojanowski, Robert; Woodruff, Gena  
**Cc:** LIA01 Hoc; LIA11 Hoc; Kahler, Robert  
**Subject:** FW: [BVPS-FYI] Article in East Liverpool Review - EPZ / March 24, 2011  
**Attachments:** ELiverpool\_Review\_Mar24\_2011.pdf; FEMA EPZ Factsheet.pdf

I am forwarding this to you as an FYI so everyone is aware of the error in the article.

Cindy

\*\*\*\*\*

Cindy Flannery  
State Liaison – Liaison Team  
NRC Operation Center

**From:** Werkheiser, David  
**Sent:** Thursday, March 24, 2011 11:27 AM  
**To:** Bellamy, Ronald; Sheehan, Neil; Screnci, Diane  
**Cc:** Werkheiser, David; Barr, Steve; Tift, Doug; McNamara, Nancy; Bonney, Erin; Ziev, Tracey; Barber, Scott; Lafferty, Nathan; McKinley, Raymond  
**Subject:** [BVPS-FYI] Article in East Liverpool Review - EPZ / March 24, 2011

Ron,

State of Ohio BV POC ([redacted] (b)(6)) contacted me to make me aware of an article (attached) from East Liverpool (~5 west of BVPS) concerning an apparent published error in the EPZ radius (15 mi vs. 10mi). He wanted to confirm that 10 miles was the correct number.

I was fairly sure 10 miles was correct but confirmed with the region by speaking to Ray McKinley and reviewing the EPZ Fact sheet provided by Ray (thanks!)...Steve Barr was not able to be reached.

I called back [redacted] (b)(6) and communicated 10 miles was correct. He was in process of contacting his stakeholders to correct any misunderstanding from the article. Beaver Valley licensee has also communicated this article to their OPA staff to engage the publisher.

This is more of an FYI, since it appears the locals / licensee are addressing the error.

---

**David L. Werkheiser**  
USNRC Senior Resident Inspector  
Beaver Valley Power Station  
O: 724-643-2000  
F: 724-643-2003  
C: [redacted] (b)(6)

East Liverpool Review (OH) 3/24/2011

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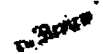
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Data

# County commissioners discuss emergency, evacuation procedures

March 24, 2011 - By NANCY TULLIS (ntullis@reviewonline.com)

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**NEW CUMBERLAND** - With the devastation and loss now being experienced by the people of Japan in mind, the Hancock County Commission wants to be sure county residents are aware of emergency and evacuation procedures.

The commission asked Tom Zielinsky, county communications director, to meet with John Paul Jones, county emergency management director, and put together a report on emergency and evacuation procedures.

Zielinsky said much of the needed information is in a three-page section in the Verizon phone book. Commissioners said, however, that since many people now only have cell phones, they may not have access to that phone book.

Commissioner Dan Greathouse said he would like information from Jones to explain the procedures for emergencies, how sirens are used. He said he would also like specific information such as what should parents of school children do if there is an emergency during the school day.

Zielinsky said he would contact Jones for the information. Regarding emergency procedures and any evacuation related to the Beaver Valley Power Station and its nuclear facility, Zielinsky said the U.S. Regulatory Commission has extended the Emergency Planning Zone from a 10-mile to a 15-mile radius around the plant, which would include much of Hancock County.

Emergency information in the phone book lists Emergency Alert System (EAS) radio and television stations, general information

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about weather watches and warnings, and emergency preparedness. There is specific information about getting help during an emergency, and that anyone disabled or who has a medical condition which might make emergency evacuation difficult or impossible without help should call the Emergency Management office or send a postcard with information about their condition, any medicines or other treatments needed, etc. The office can then have that information kept confidential on file and on hand to provide help in getting to safety.



The information in the phone book was put together by the local planning committee of the Hancock County Office of Emergency Management based on federal emergency management guidelines.

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The Review

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**From:** LIA05 Hoc  
**Sent:** Friday, March 25, 2011 3:59 PM  
**To:** LIA06 Hoc; LIA08 Hoc; LIA07 Hoc  
**Subject:** FW: SITREP: March 25, 2011  
**Attachments:** SITREP 2011-03-25 REPP Japan Earthquake draft.doc

Please find the attached FEMA REPP Sitrep for Today.

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

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**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Friday, March 25, 2011 3:56 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: SITREP: March 25, 2011

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry: (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

---

**From:** Horwitz, Steve  
**To:** Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; Hammond, Lisa <lisa.hammond@dhs.gov>; McCabe, Ron; Feighert, Dan; Fiore, Craig; Webb, Bill  
**Cc:** Sherwood, Harry; Ralston, Michelle; Hlavaty-LaPosa, Janet; Quinn, Vanessa; Coons, Albert; Purvis, James; Greten, Timothy; Sheffield, Bonnie; Wierman, Kenneth; 'Freeman, Carol' (b)(6); (b)(6)  
<(b)(6)>; Bischof, Bill; 'Simpson, John' <john.simpson@dhs.gov>  
**Sent:** Fri Mar 25 15:33:07 2011  
**Subject:** SITREP: March 25, 2011



---

**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:19 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: EPZ Paper - NRC Review Needed!

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

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**From:** Purvis, James [mailto:james.purvis@dhs.gov]  
**Sent:** Thursday, March 17, 2011 4:58 PM  
**To:** LIA05 Hoc  
**Cc:** Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn  
**Subject:** RE: EPZ Paper - NRC Review Needed!

Excellent. Thanks!

- James

**From:** prvs=0505f6d80=LIA05.Hoc@nrc.gov [mailto:prvs=0505f6d80=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc  
**Sent:** Thursday, March 17, 2011 4:57 PM  
**To:** james.purvis@dhs.gov  
**Cc:** Andrew Seward; Harry Sherwood; Michelle Ralston; Steve Horwitz; Tim Greten; Vanessa E. Quinn  
**Subject:** FW: EPZ Paper - NRC Review Needed!  
**Importance:** High

Mr. Purvis,

I forwarded this request through the NRC Ops Center Liaison Team Director and once there is approval, I will let everyone know.

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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## EPZs in Detail

The Emergency Planning Zone (EPZ) is the area surrounding an commercial nuclear power plant (NPP) for which plans/procedures have been made to ensure that prompt and effective actions are taken to protect the health and safety of the public in case of an incident at the NPP. FEMA recognizes two types of EPZs for planning purposes: the plume exposure pathway EPZ and the ingestion exposure pathway EPZ. The characteristics of these two types of EPZs are summarized in Exhibit I. Each EPZ is a roughly circular area, with the NPP at the center.

The EPZs sizes represent a technical judgment based on the type and quantity of hazardous materials present (source term) and the potential risks where detailed planning is needed to ensure adequate response to an emergency. An EPZ may include more than one State. "Split" jurisdictions (i.e., part of the jurisdiction is included in the EPZ and part is not) also exist. In these cases, EPZ boundaries are determined based on consultation with all parties involved, including OROs, FEMA, and the NRC. In some cases, a conservative option is taken and the entire jurisdiction is included in the EPZ.

**Exhibit I: Plume and Ingestion EPZ Characteristics**

Type of EPZ	Exposure Sources	Size
<b>Plume Exposure Pathway</b>	<ul style="list-style-type: none"><li>• Whole-body external exposure to gamma radiation from the passing plume and from deposited material</li><li>• Thyroid exposure through inhalation from the passing plume</li><li>• Committed effective dose equivalent exposure to other critical organs through inhalation</li></ul>	Approximately 10-mile radius
<b>Ingestion Exposure Pathway</b>	<ul style="list-style-type: none"><li>• Ingestion of contaminated water or foods, such as milk, fresh vegetables, and aquatic foodstuffs, may result in increased risk of radiation-induced cancer to the thyroid, bone marrow, and other organs</li></ul>	Approximately 50-mile radius

The size of the **plume exposure pathway** EPZ, about 10 miles in radius, is based on the following considerations from NUREG-0654/FEMA-REP-1:

- Projected doses from traditional design-basis accidents/incidents would not exceed the PAG levels outside the zone;
- Projected doses from most core damage sequences would not exceed PAG levels outside the zone;
- For the worst-case core damage sequences, immediate life-threatening doses would generally not occur outside the zone; and
- **Detailed planning within approximately 10 miles would provide a substantial base for expansion of response efforts to a larger area, if necessary.**

The size of the **ingestion exposure pathway** EPZ, about 50 miles in radius, including the 10-mile radius plume exposure pathway EPZ, is based on the following considerations:

- The downwind range within which contamination may potentially exceed the PAGs is limited to about 50 miles from an NPP because of wind shifts during the release and travel periods;
- Atmospheric iodine (i.e., iodine suspended in the atmosphere for long periods) may be converted to chemical forms that do not readily enter the ingestion pathway; and
- Much of the particulate material in a radioactive plume would have been deposited on the ground within about 50 miles from the NPP.

The likelihood of exceeding ingestion exposure pathway Protective Action Guide levels at 50 miles is comparable to the likelihood of exceeding plume exposure pathway PAG levels at 10 miles.

---

**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:30 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: Emergency Planning Zones v2.0  
**Attachments:** Emergency Planning Zones v2.0.pdf  
  
**Importance:** High

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

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**From:** Purvis, James [mailto:james.purvis@dhs.gov]  
**Sent:** Friday, March 18, 2011 11:46 PM  
**To:** LIA05 Hoc; Ralston, Michelle; Horwitz, Steve; Sherwood, Harry; Simpson, John; Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; Hammond, Lisa; McCabe, Ron; Feighert, Dan; Fiore, Craig; Rice, John; Hasemann, Brian; Price, John; Kinard, Richard; Robertson, Larry; Hecht, Randall; Naskrent, Gary; Flowerday, Scott; Calhoun, Nan; Valentine, Norm; Echavarría, Richard; Berkey, Johanna  
**Cc:** Seward, Andrew; Greten, Timothy; Quinn, Vanessa  
**Subject:** Emergency Planning Zones v2.0  
**Importance:** High

Please find attached **Version 2.0** of the EPZ Info/fact sheet that went out earlier today. Again, this may be shared freely both internally and externally.

Version 2.0 now includes listings of relevant reference documents, POC information and DHS/FEMA branding.

Regards,

**James H Purvis**  
Radiological Emergency Preparedness Program  
Technological Hazards Division  
DHS/FEMA Protection and National Preparedness Directorate  
1800 South Bell Street, Room 830  
Arlington, VA 20598-3025  
Office: (202) 212-2334  
Mobile: (b)(6)  
Fax: (703) 305-0738  
[james.purvis@dhs.gov](mailto:james.purvis@dhs.gov)

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# EMERGENCY PLANNING ZONES



# FEMA

## **EPZs in Brief**

Federal Emergency Management Agency (FEMA) and Nuclear Regulatory Commission (NRC) emergency preparedness planning guidance provides for two emergency planning zones (EPZs) for U.S. commercial nuclear power plants (NPPs):

- **Plume** Exposure Pathway (apx. 10 Miles in radius)
  - Designed to safeguard the population most at risk from **direct exposure** to radiation levels in excess of Environmental Protection Agency Protective Action Guidelines (PAGs)
  
- **Ingestion** Exposure Pathway (apx. 50 Miles in radius)
  - **Designed to protect** the public from **secondary exposure** to radiation through the food chain or public water supplies

The planning zones are intended to be scalable over time to account for changing conditions that could possibly extend outside the initial EPZ.

Specifically, NUREG-0654/FEMA-REP-1 states: "In a particular emergency, protective actions might well be restricted to a small part of the planning zone. On the other hand, for the worst possible accidents, protective actions would need to be taken outside the planning zones" (I.D., p.11) **i.e., the EPZs are the base areas requiring emergency planning – they are designed to be expanded (beyond the base of 10, 50 miles), as necessary, during emergencies.**

**Note:** The 10 & 50 mile EPZs are the Federally required minimum. FEMA and NRC regulations state that the exact size and shape of the EPZs shall be determined by the State and local governments – in consultation with FEMA and the NRC, taking into account such local conditions as demography, topography, land characteristics, access routes and local jurisdiction boundaries.(44 CFR § 350.7).

## **EPZ Evacuation Planning and Preparedness**

FEMA affirms that evacuation of the public is the preferred initial protective action in the event of a severe (core damage) emergency occurring (or likely to occur) at NPPs. Federal requirements for NPPs include the establishment of EPZs at 10 and 50-mile distances surrounding the site that detail evacuation routes. Evacuation planning includes the development and incorporation of periodic evacuation time estimate studies to inform evacuation strategies such that prompt and effective actions can be taken by offsite response organizations to protect the public in the event of a radiological emergency. This includes accounting for both permanent and transient populations, persons with disabilities and access/functional needs, those whose mobility may be impaired because of institutional or other confinement as well as provisions for the monitoring, decontamination and congregate care of evacuees, as necessary.

Where immediate evacuation of an affected population within the EPZ is not practical due to impediments (e.g., debris blocking evacuation routes, severe weather, etc.) or where evacuation could pose a greater potential health risk, temporary sheltering-in-place of the public is the preferred protective action. State, Tribal and local evacuation plans and procedures for NPP communities are reviewed and approved by FEMA. While actual evacuations of the public are not required in biennial FEMA evaluations, appropriate demonstrations by State, Tribal and local response agencies to direct and control a public evacuation is assessed.

**EPZs in Detail**

The Emergency Planning Zone (EPZ) is the area surrounding an commercial nuclear power plant (NPP) for which plans/procedures have been made to ensure that prompt and effective actions are taken to protect the health and safety of the public in case of an incident at the NPP. The Federal Emergency Management Agency (FEMA) recognizes two types of EPZs for planning purposes: the plume exposure pathway EPZ and the ingestion exposure pathway EPZ. The characteristics of these two types of EPZs are summarized in Exhibit I. Each EPZ is a roughly circular area, with the NPP at the center.

The EPZs sizes represent a technical judgment based on the type and quantity of hazardous materials present (source term) and the potential risks where detailed planning is needed to ensure adequate response to an emergency. An EPZ may include more than one State. "Split" jurisdictions (i.e., part of the jurisdiction is included in the EPZ and part is not) also exist. In these cases, EPZ boundaries are determined based on consultation with all parties involved, including State, Tribal and local governments, FEMA, and the NRC. In some cases, a conservative option is taken and the entire jurisdiction is included in the EPZ.

**Exhibit I: Plume and Ingestion EPZ Characteristics**

Type of EPZ	Exposure Sources	Size
<b>Plume Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Whole-body external exposure to gamma radiation from the passing plume and from deposited material</li> <li>• Thyroid exposure through inhalation from the passing plume</li> <li>• Committed effective dose equivalent exposure to other critical organs through inhalation</li> </ul>	Approximately 10-mile radius
<b>Ingestion Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Ingestion of contaminated water or foods, such as milk, fresh vegetables, and aquatic foodstuffs, may result in increased risk of radiation-induced cancer to the thyroid, bone marrow, and other organs</li> </ul>	Approximately 50-mile radius

The size of the **plume exposure pathway** EPZ, about 10 miles in radius, is based on the following considerations from NUREG-0654/FEMA-REP-1:

- Projected doses from traditional design-basis accidents/incidents would not exceed the Environmental Protection Agency Protective Action Guideline (PAG) levels outside the zone;
- Projected doses from most core damage sequences would not exceed PAG levels outside the zone;
- For the worst-case core damage sequences, immediate life-threatening doses would generally not occur outside the zone; and
- **Detailed planning within approximately 10 miles would provide a substantial base for expansion of response efforts to a larger area, if necessary.**

The size of the **ingestion exposure pathway** EPZ, about 50 miles in radius, including the 10-mile radius plume exposure pathway EPZ, is based on the following considerations:

- The downwind range within which contamination may potentially exceed the PAGs is limited to about 50 miles from an NPP because of wind shifts during the release and travel periods;
- Atmospheric iodine (i.e., iodine suspended in the atmosphere for long periods) may be converted to chemical forms that do not readily enter the ingestion pathway; and
- Much of the particulate material in a radioactive plume would have been deposited on the ground within about 50 miles from the NPP.

The likelihood of exceeding ingestion exposure pathway PAG levels at 50 miles is comparable to the likelihood of exceeding plume exposure pathway PAG levels at 10 miles.

### **References**

- Title 10 Code of Federal Regulations Part 10
- Title 44 Code of Federal Regulations Part 350
- *Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants*, NUREG-0654/FEMA-REP-1, Rev. 1, 1980
- *Manual of Protective Action Guides and Protective Actions for Nuclear Incidents*, EPA-400-R-92-001, May 1992

### **Contact Information**

THD-Outreach-Team@fema.gov



---

**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:31 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: RA briefing paper: NEMA conference  
**Attachments:** 20110318\_REPP\_SITREP\_JapanEarthquake\_final.docx; Emergency Planning Zones (3).pdf; Response to Radiological Emergencies (4).doc

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

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**From:** LIA01 Hoc  
**Sent:** Saturday, March 19, 2011 11:58 AM  
**To:** LIA05 Hoc  
**Subject:** FW: RA briefing paper: NEMA conference

**From:** LIA07 Hoc  
**Sent:** Saturday, March 19, 2011 11:44 AM  
**To:** LIA01 Hoc; Hoc, PMT12  
**Subject:** FW: RA briefing paper: NEMA conference

FYI

**From:** Horwitz, Steve [mailto:steve.horwitz@dhs.gov]  
**Sent:** Saturday, March 19, 2011 11:32 AM  
**To:** LIA07 Hoc  
**Subject:** Fw: RA briefing paper: NEMA conference

Bonnie, see 1st and 3rd attachment.  
Steve

-----  
Sent using BlackBerry

---

**From:** Horwitz, Steve  
**To:** Anderson, Paul  
**Cc:** Sherwood, Harry  
**Sent:** Fri Mar 18 18:31:52 2011  
**Subject:** FW: RA briefing paper: NEMA conference

## EMERGENCY PLANNING ZONES

### EPZs in Brief

Federal Emergency Management Agency (FEMA) and Nuclear Regulatory Commission (NRC) emergency preparedness planning guidance provides for two emergency planning zones (EPZs) for U.S. commercial nuclear power plants (NPPs):

- **Plume** Exposure Pathway (apx. 10 Miles in radius)
  - Designed to safeguard the population most at risk from **direct exposure** to radiation levels in excess of Environmental Protection Agency Protective Action Guidelines (PAGs)
  
- **Ingestion** Exposure Pathway (apx. 50 Miles in radius)
  - **Designed to protect** the public from **secondary exposure** to radiation through the food chain or public water supplies

The planning zones are intended to be scalable over time to account for changing conditions that could possibly extend outside the initial EPZ.

Specifically, NUREG-0654/FEMA-REP-1 states: "In a particular emergency, protective actions might well be restricted to a small part of the planning zone. On the other hand, for the worst possible accidents, protective actions would need to be taken outside the planning zones" (I.D., p.11) **i.e., the EPZs are the base areas requiring emergency planning – they are designed to be expanded (beyond the base of 10, 50 miles), as necessary, during emergencies.**

**Note:** The 10 & 50 mile EPZs are the Federally required minimum. FEMA and NRC regulations state that the exact size and shape of the EPZs shall be determined by the State and local governments – in consultation with FEMA and the NRC, taking into account such local conditions as demography, topography, land characteristics, access routes and local jurisdiction boundaries.(44 CFR § 350.7).

### EPZ Evacuations

FEMA affirms that evacuation of the public is the preferred initial protective action in the event of a severe (core damage) emergency occurring (or likely to occur) at NPPs. Federal requirements for NPPs include the establishment of EPZs at 10 and 50-mile distances surrounding the site that detail evacuation routes. Evacuation planning includes the development and incorporation of periodic evacuation time estimate studies to inform evacuation strategies such that prompt and effective actions can be taken by offsite response organizations to protect the public in the event of a radiological emergency. This includes accounting for both permanent and transient populations, persons with disabilities and access/functional needs, those whose mobility may be impaired because of institutional or other confinement as well as provisions for the monitoring, decontamination and congregate care of evacuees, as necessary.

Where immediate evacuation of an affected population within the EPZ is not practical due to impediments (e.g., debris blocking evacuation routes, severe weather, etc.) or where evacuation could pose a greater potential health risk, temporary sheltering-in-place of the public is the preferred protective action. State, Tribal and local evacuation plans and

procedures for NPP communities are reviewed and approved by FEMA. While actual evacuations of the public are not required in biennial FEMA evaluations, appropriate demonstrations by State, Tribal and local response agencies to direct and control a public evacuation is assessed.

**EPZs in Detail**

The Emergency Planning Zone (EPZ) is the area surrounding an commercial nuclear power plant (NPP) for which plans/procedures have been made to ensure that prompt and effective actions are taken to protect the health and safety of the public in case of an incident at the NPP. The Federal Emergency Management Agency (FEMA) recognizes two types of EPZs for planning purposes: the plume exposure pathway EPZ and the ingestion exposure pathway EPZ. The characteristics of these two types of EPZs are summarized in Exhibit I. Each EPZ is a roughly circular area, with the NPP at the center.

The EPZs sizes represent a technical judgment based on the type and quantity of hazardous materials present (source term) and the potential risks where detailed planning is needed to ensure adequate response to an emergency. An EPZ may include more than one State. "Split" jurisdictions (i.e., part of the jurisdiction is included in the EPZ and part is not) also exist. In these cases, EPZ boundaries are determined based on consultation with all parties involved, including OROs, FEMA, and the NRC. In some cases, a conservative option is taken and the entire jurisdiction is included in the EPZ.

**Exhibit I: Plume and Ingestion EPZ Characteristics**

Type of EPZ	Exposure Sources	Size
<b>Plume Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Whole-body external exposure to gamma radiation from the passing plume and from deposited material</li> <li>• Thyroid exposure through inhalation from the passing plume</li> <li>• Committed effective dose equivalent exposure to other critical organs through inhalation</li> </ul>	Approximately 10-mile radius
<b>Ingestion Exposure Pathway</b>	<ul style="list-style-type: none"> <li>• Ingestion of contaminated water or foods, such as milk, fresh vegetables, and aquatic foodstuffs, may result in increased risk of radiation-induced cancer to the thyroid, bone marrow, and other organs</li> </ul>	Approximately 50-mile radius

The size of the plume exposure pathway EPZ, about 10 miles in radius, is based on the following considerations from NUREG-0654/FEMA-REP-1:

- Projected doses from traditional design-basis accidents/incidents would not exceed the Environmental Protection Agency Protective Action Guideline (PAG) levels outside the zone;
- Projected doses from most core damage sequences would not exceed PAG levels outside the zone;
- For the worst-case core damage sequences, immediate life-threatening doses would generally not occur outside the zone; and

- **Detailed planning within approximately 10 miles would provide a substantial base for expansion of response efforts to a larger area, if necessary.**

The size of the **ingestion exposure pathway** EPZ, about 50 miles in radius, including the 10-mile radius plume exposure pathway EPZ, is based on the following considerations:

- The downwind range within which contamination may potentially exceed the PAGs is limited to about 50 miles from an NPP because of wind shifts during the release and travel periods;
- Atmospheric iodine (i.e., iodine suspended in the atmosphere for long periods) may be converted to chemical forms that do not readily enter the ingestion pathway; and
- Much of the particulate material in a radioactive plume would have been deposited on the ground within about 50 miles from the NPP.

The likelihood of exceeding ingestion exposure pathway PAG levels at 50 miles is comparable to the likelihood of exceeding plume exposure pathway PAG levels at 10 miles.

---

**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 5:10 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: SitRep: March 24  
**Attachments:** SITREP 2011-03-24 REPP Japan Earthquake Final.doc

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

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~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Thursday, March 24, 2011 4:24 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: SitRep: March 24

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry: (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

-----  
Sent using BlackBerry

---

**From:** Horwitz, Steve  
**To:** Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; Hammond, Lisa <lisa.hammond@dhs.gov>; Feighert, Dan; Fiore, Craig; Webb, Bill  
**Cc:** Sherwood, Harry; Raiston, Michelle; Hlavaty-LaPosa, Janet <janet.hlavaty-laposa@dhs.gov>; Quinn, Vanessa; Coons, Albert; Greten, Timothy; 'Kish, James' <James.Kish@dhs.gov>; Sheffield, Bonnie; Wierman, Kenneth; Purvis, James <james.purvis@dhs.gov>; 'Hobbs, Terry' <Terry.Hobbs@dhs.gov>; (b)(6)@icfi.com ;  
**Sent:** Thu Mar 24 16:18:08 2011  
**Subject:** SitRep: March 24

---

**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 5:12 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: Final SITREP 2011-03-26  
**Attachments:** SITREP 2011-03-26 REPP Japan Earthquake.doc

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

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**From:** Wierman, Kenneth [mailto:kenneth.wierman@dhs.gov]  
**Sent:** Saturday, March 26, 2011 5:09 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: Final SITREP 2011-03-26

Kenneth L. Wierman Jr.  
Policy and Regulations Unit  
Radiological Emergency Preparedness  
Federal Emergency Management Agency (FEMA) Headquarters  
Office: (202) 212-3711  
Blackberry (b)(6)  
[kenneth.wierman@dhs.gov](mailto:kenneth.wierman@dhs.gov)

Sent using BlackBerry

---

**From:** Feighert, Dan  
**To:** Colman, Steve; Thomson, Rebecca; Hammons, Darrell; Burnside, Conrad; King, William; 'Hammond, Lisa' <lisa.hammond@dhs.gov>; McCabe, Ron; Feighert, Dan; Fiore, Craig; Webb, Bill  
**Cc:** Sherwood, Harry; Ralston, Michelle; Hlavaty-LaPosa, Janet; Quinn, Vanessa; Coons, Albert; Purvis, James; Greten, Timothy; Sheffield, Bonnie; Wierman, Kenneth; 'Freeman, Carol' (b)(6) (b)(6)  
(b)(6) Bischof, Bill; 'Simpson, John' <john.simpson@dhs.gov>  
**Sent:** Sat Mar 26 16:15:58 2011  
**Subject:** FW: Final SITREP 2011-03-26

**From:** John D. Simpson [mailto:(b)(6)]  
**Sent:** Saturday, March 26, 2011 2:15 PM  
**To:** Dan Feighert  
**Subject:** Final SITREP 2011-03-26

---

**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:21 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: KI info for FEMA rev 2.xls- updated  
**Attachments:** KI info for FEMA rev 2.xls

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

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**From:** Milligan, Patricia  
**Sent:** Thursday, March 17, 2011 9:20 PM  
**To:** james.purvis@dhs.gov; LIA05 Hoc  
**Cc:** Greten, Timothy; Howe, Michael  
**Subject:** KI info for FEMA rev 2.xls- updated

9/17/2011

STATE	130 mg tablets	65 mg tablets	TOTAL PILLS
	4,766,454	14,577,129	17,825,551.00
Alabama			270,000
Arizona			14,398
Arkansas			0
California		1358032	
Connecticut			370,000
Delaware		60,000	
Delaware			99,074
Florida			2,115,999
Georgia			0
Illinois			0
Iowa			0
Kansas			0
Louisiana			0
Maryland			228,956
Massachusetts			550,220
Michigan		1,360,000	1,360,000
Minnesota		1,234,680	1,234,680
Mississippi			25,006
Missouri			0
Nebraska			0
New Hampshire			436,000
New Jersey			871,000
New York			1,140,000
North Carolina		100,000	666,000
Ohio		1,420,820	1,420,820
Pennsylvania		4,300,000	4,300,000
Prarie Island Tribe			0
South Carolina		1,320,000	1,320,000
Tennessee			446,480
Texas			0





**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:31 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW: FEMA Staff in Crystal City  
**Attachments:** 20110318\_REPP\_SITREP\_JapanEarthquake\_final.docx

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

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**From:** Sheffield, Bonnie [mailto:Bonnie.Sheffield@dhs.gov]  
**Sent:** Saturday, March 19, 2011 12:36 PM  
**To:** LIA05 Hoc  
**Subject:** Fw: FEMA Staff in Crystal City

-----  
Sent using BlackBerry

---

**From:** Simpson, John <john.simpson@dhs.gov>  
**To:** Sheffield, Bonnie <Bonnie.Sheffield@dhs.gov>  
**Cc:** Horwitz, Steve <steve.horwitz@dhs.gov>  
**Sent:** Sat Mar 19 11:40:19 2011  
**Subject:** FW: FEMA Staff in Crystal City

Bonne....attached is yesterday's (1600 EDT) SITREP.

**From:** Horwitz, Steve  
**Sent:** Saturday, March 19, 2011 11:26 AM  
**To:** Simpson, John  
**Subject:** Re: FEMA Staff in Crystal City

John, also please send Bonnie yesterday's SitRep.

-----  
Sent using BlackBerry

---

**From:** Simpson, John  
**To:** bonnie.sheffield@dhs.gov <bonnie.sheffield@dhs.gov>; Horwitz, Steve; Ralston, Michelle  
**Cc:** vanessa.quinn@dhs.gov <vanessa.quinn@dhs.gov>; Sherwood, Harry

**Sent:** Sat Mar 19 11:23:39 2011  
**Subject:** FW: FEMA Staff in Crystal City

Bonnie...here are bullets that capture our involvement today. I'll look for the addressees to add to this list:

Media monitoring, situational awareness

Participation in teleconferences with our federal partners

Dialogue with Regional offices and RAC Chairs in response to questions from our state and local partners

Review and refinement of technologies to collect, analyze, and disseminate emergency information

Preparation of daily SITREP

**From:** Simpson, John  
**Sent:** Saturday, March 19, 2011 11:14 AM  
**To:** bonnie.sheffield@dhs.gov  
**Subject:** FEMA Staff in Crystal City

Bonnie...I spoke with Vanessa. Can we talk for a bit? My cell is (b)(6)

JOHN D. SIMPSON

1

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**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 5:08 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW:

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

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**From:** Sheffield, Bonnie [mailto:Bonnie.Sheffield@dhs.gov]  
**Sent:** Wednesday, March 23, 2011 3:15 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Thank you.

*Very Respectfully*

*Bonnie Sheffield*

Program Specialist (Emergency Management)  
Policy and Regulations Unit  
U.S. Department of Homeland Security/FEMA  
Technological Hazard Division  
Radiological Emergency Preparedness Program  
1800 S. Bell Street  
Arlington VA.20598-3025  
202.212.2120 office  
(b)(6) blackberry  
703 305 0837 fax

**From:** prvs=0565adb72=LIA05.Hoc@nrc.gov [mailto:prvs=0565adb72=LIA05.Hoc@nrc.gov] **On Behalf Of** LIA05 Hoc  
**Sent:** Wednesday, March 23, 2011 2:57 PM  
**To:** Sheffield, Bonnie  
**Subject:** RE:

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

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**From:** Sheffield, Bonnie [mailto:Bonnie.Sheffield@dhs.gov]  
**Sent:** Wednesday, March 23, 2011 2:54 PM  
**To:** LIA05 Hoc  
**Subject:**

Please send me the SOP for the Liaison position

*Very Respectfully*

*Bonnie Sheffield*

Program Specialist (Emergency Management)  
Policy and Regulations Unit  
U.S. Department of Homeland Security/FEMA  
Technological Hazard Division  
Radiological Emergency Preparedness Program  
1800 S. Bell Street  
Arlington VA.20598-3025  
202 212 2120 office  
(b)(6) blackberry  
703 305 0837 fax

**FEMA Liaison  
NRC Operations Center  
Duties and Responsibilities**

**LOCATION**

- 11545 Rockville Pike, Rockville MD 20852
- The position is located in the Liaison Team Room of the Nuclear Regulatory Commission (NRC) Emergency Operations Center (EOC).
- The security clearance requirement is SECRET or "L".
  - *Other security levels may be used, but will need constant escorts*

**DUTIES**

- Report to the Liaison Director
  - *Report on the status of FEMA*
  - *Report from the RAC Chair is official for that Region*
- Represent FEMA at all times in a professional manner.
  - *Do not speak outside your area of expertise*
  - *If needs be contact FEMA HQ for verification of information that is requested*
  - *Do speak with confidence*
  - *All information comes to and from this position, if you are not receiving information from either parties contact them for updates.*
- Log in all information on the log sheet.
  - *Send yesterday's log sheet to FEMA Contact list in the beginning of the morning shift.*
- Report all Public Meetings to The FEMA Contact list and Mr. Kish
- Send all e-mails and information to FEMA Contact list which includes: Vanessa E. Quinn; Tim Greten; Ralston, Michelle; Harry Sherwood; Andrew Seward; Steve Horwitz, Dan Feighert and John Simpson
  - *FEMA Contact list will come up on the email by typing the letter F in the "TO" section.*
  - *FEMA Contact list may need to be updated, contact FEMA HQ for the latest personnel list that the information will be sent to and add to the Duties and Responsibilities*
  - *To update the FEMA Contact list go to the Contact section of the e-mail and FEMA contact list group and FEMA RAC list group will come up click on them and make corrections*
- Any documents that have FEMA on it have to be reviewed by FEMA and HQ attorneys and FEMA Contact list.

- If time allows, any statements from NRC OPS Center that included FEMA should to be reviewed by FEMA HQ attorneys and FEMA Contact list
- Send NRC SITREP to FEMA Contact list twice a day: After the 0600 report and after the 1700 report
  - *The NRC SITREP is located on the desktop folder named M-OPS Center drive/Japan electronic briefing package/NRC status reports. It is filed by date.*
    - *This file may change for different events*
- Information from FEMA HQ is received: i.e. FEMA SITREP, talking points etc.
  - *Forward it to NRC State ,Federal Liaisons and Liaison director*
  - *Copy and put in the FEMA Liaison information/ FEMA SITREP information file*

#### **PHONE PROTOCOLS:**

- Answer the desk phone: NRC Operation Center, FEMA, then your name, **this is a recorded line**. It is law to notify the speaker that they are **on a recorded line**
- Watch what you say on the phone, don't speak for other agencies.

**ATTACHMENT A:** FEMA Liaison Log sheet

**ATTACHMENT B:** FEMA Contact information

- *This may need to be updated, contact FEMA HQ for the latest names and numbers and add to the SOP*
- ❖ Duties, log sheets and all other information located on the desktop under the file FEMA Liaison information.





**ATTACHMENT B**

**RAC Contact information**

Region	RAC Chair	Email	Phone
1	Steve Colman	Steve.Colman@dhs.gov	417-832-4731-O
2	Rebecca Thomson	Rebecca.Thomson@dhs.gov	212-680-8509-O (b)(6) -C
3	Darrell Hammons	Darrell.Hammons@dhs.gov	215-931-5546-O (b)(6) -C
4	Conrad Burnside	Conrad.Burnside@dhs.gov	770-220-5486-O (b)(6) -C
5	William King	William.King@dhs.gov	312-408-5575-O (b)(6) -C
6	Lisa Hammond	Lisa.Hammond@dhs.gov	940-898-5199-O (b)(6) -C
7	Ronald McCabe	Ron.McCabe@dhs.gov	816-283-7007-O (b)(6) -C
8	Dan Feighert	Dan.Feighert@dhs.gov	303-235-4737-O (b)(6) -C
9	Craig Fiore	Craig.Fiore@dhs.gov	510.627.7252-O (b)(6) -C
10	Bill Webb	Bill.Webb@dhs.gov	425-427-2175-O

**Technological Hazards Division  
Headquarters Contacts**

<b>Name Last, First</b>	<b>Branch</b>	<b>Title</b>	<b>Office**</b>	<b>Email</b>
Arszulowicz, John	REPP	Program Specialist	tbd	john.arszulowicz@dhs.gov
Barker, Ronald	CSEPP	(Emergency Preparedness)	703-605-1210	ronald.barker@dhs.gov
Barnes, Joshua	REPP	Emergency Management Specialist	202-212-4874	joshua.barnes@dhs.gov
Broockerd, Larry	REPP	Training Specialist	202-212-2238	larry.broockerd@dhs.gov
Butler, Lolita	CSEPP	Secretary	703-605-1211	lolita.butler@dhs.gov
Coleman-Marbury, Brenda	BizOps	Executive Assistant	202-212-2301	<u>brenda.coleman-marbury@dhs.gov</u>
Collins Jr., Richard W.	FRPCC	Program Specialist	202-212-4753	richard.collins@dhs.gov
Connell, Renae	REPP	Emergency Management Specialist	202-212-2130	renae.connell@dhs.gov
		Lead Program Specialist		
Coons, Albert	REPP	(Emergency Preparedness)	202-212-2318	albert.coons@dhs.gov
Darlington, Lisa	BizOps	Acting Branch Chief	703-605-1377	lisa.darlington@dhs.gov
DeFelice, Anthony	REPP	Attorney	703-605-1400	anthony.defelice@dhs.gov
DeGilio, Lou	REPP	Training Specialist	202-212-2313	lou.degilio@dhs.gov
Du, Jingtong (James)	ProfServices	Electronics Engineer	202-212-4870	jingtong.du@dhs.gov
Eberst, William	ProfServices	Program Specialist	202-212-2321	william.eberst@dhs.gov
Fiore, Craig	REPP	Deputy Branch Chief	703-605-4218	craig.fiore@dhs.gov
Flores, Kaori	REPP	Emergency Management Specialist	202-212-2287	kaori.flores@dhs.gov
Fontenot, Rebecca	REPP	Emergency Management Specialist	202-212-2315	rebecca.fontenot@dhs.gov
		Program Specialist		
Galloway, Clark	BizOps	(Emergency Preparedness)	202-212-2333	clark.galloway@dhs.gov
Gardner, Patricia	REPP	Program Specialist	202-212-2314	patricia.gardner@dhs.gov
Gates II, Russell P. (Russ)	ProfServices	Senior Electronics Engineer	202-212-2196	russell.gates@dhs.gov
Gilder, David	CSEPP	Program Specialist	703-605-1206	david.gilder@dhs.gov
Greten, Tim	Division	Deputy Director	202-646-3907	timothy.greten@dhs.gov
Hallett, Scott	REPP	Training Specialist	202-212-4896	scott.hallett@dhs.gov
Halsey, LaShawn	REPP	Emergency Management Specialist	202-212-2235	lashawn.halsey@dhs.gov
Hamilton, Lisa	REPP	Emergency Management Specialist	202-212-2123	lisa.hamilton@dhs.gov
Hammond-Woodard, Odessa	ProfServices	Program Support Assistant	202-646-4015	odessa.hammond@dhs.gov
Herring, Joe	CSEPP	Deputy Director	703-605-1378	joe.herring@dhs.gov
Hobbs, Terry	CSEPP	Acting Branch Chief	703-605-1379	terry.hobbs@dhs.gov

Horton, Douglas	REPP	Attorney	703-605-1519	douglas.horton@dhs.gov
Horwitz, Steve	ProfServices	Public Affairs Specialist	703-605-1208	steve.horwitz@dhs.gov
Howe, Michael	ProfServices	Health Physicist Program Specialist	202-212-4875	michael.howe@dhs.gov
Jeremy, David	REPP	(Emergency Management)	202-212-2316	david.jeremy@dhs.gov
Kish, James	Division	Director	202-212-2205	james.kish@dhs.gov
Mauldin, Deborah	REPP	Emergency Management Specialist Program Specialis	703-605-4214	deborah.mauldin@dhs.gov
McSwain, Alonzo	BizOps	(Emergency Preparedness) Senior Program Specialist	202-212-2322	alonzo.mcswain@dhs.gov
Mingledolph, Juvart	BizOps	(Emergency Preparedness)	202-212-2332	juvart.t.mingledolph@dhs.gov
Nash Jr., Harry W.	REPP	Program Specialist	202-212-2317	harry.nashjr@dhs.gov
Nevitt, Jason	BizOps	Lead Program Specialist	202-212-2332	<u>jason.nevitt@dhs.gov</u>
Norville, Robert	CSEPP	(Emergency Preparedness)	703-605-1209	robert.norville@dhs.gov
Owens, Tamara	FRPCC	Administrative Program Specialist	202-646-2620	tamara.owens1@dhs.gov
Page, Christopher	tbd	Emergency Management Specialist	tbd	
Purvis, James	REPP	Emergency Management Specialist	202-212-2334	james.purvis@dhs.gov
Quinn, Vanessa E.	REPP	Branch Chief	703-605-1535	vanessa.quinn@dhs.gov
Name Last, First	Branch	Title	Office**	Email
Ralston, Michelle	ProfServices	Emergency Management Specialist Program Specialist	202-212-2310	michelle.ralston@dhs.gov
Sanders, Tamara	BizOps	(Emergency Preparedness)	703-605-4217	tami.sanders@dhs.gov
Schafer, John	ProfServices	Electronics Engineer	202-212-4740	john.schafer@dhs.gov
Scipio, Tanya	BizOps	Program/Policy Specialist	202-646-2813	tanya.scipio@dhs.gov
	BizOps	Branch Chief	202-212-3828	<u>andrew.seward@dhs.gov</u>
Sheffield, Bonnie	REPP	Program Specialist (Emergency Management) Program Specialist	202-212-2120	bonnie.sheffield@dhs.gov
Strother, Thomas	BizOps	(Emergency Preparedness)	202-212-2121	thomas.strother@dhs.gov
Taylor-Redman, Crystal	BizOps	Program Specialist Program Specialist	703-605-4163	crystal.taylorredman@dhs.gov
Tenorio, Pat	BizOps	(Emergency Preparedness)	202-355-3768	pat.tenorio@dhs.gov
Turner, Sheila	BizOps	Program Analyst	202-212-2331	sheila.turner@dhs.gov
Ward, Paul	ProfServices	Health Physicist	202-212-2337	paul.ward@dhs.gov
Warnock, Thomas	CSEPP	Program Specialist	202-657-2301	thomas.warnock@dhs.gov

Wilt, Michael C	REPP	Emergency Management Specialist Program Specialist	202-212-4741	michael.wilt@dhs.gov
Wierman, Ken	REPP	Training Specialist	703-605-1227	kenneth.wierman@dhs.gov

Division	Technological Hazards Division
BizOps	Business Operations
ProfServices	Professional Services
REPP	Radiological Emergency Preparedness Program
CSEPP	Chemical Stockpile Emergency Preparedness Program
FRPCC	Federal Radiological Emergency Preparedness Program

Add DHS/ FEMA Org Chart.

1

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**From:** LIA05 Hoc  
**Sent:** Wednesday, March 30, 2011 4:25 PM  
**To:** FOIA Response.hoc Resource  
**Subject:** FW:

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

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**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 2:53 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Thanks a lot Bonnie.

Kevin

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 2:49 PM  
**To:** Williams, Kevin  
**Subject:** RE:

Mr. Williams,

Harry Sherwood's contact information is [harry.sherwood@dhs.gov](mailto:harry.sherwood@dhs.gov) and he is using Craig Fiore's Office (703) 605-4218.

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 2:40 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Do you have Harry Sherwood's information?

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:55 PM  
**To:** Williams, Kevin  
**Subject:** FW:

Region	RAC Chair	Email	Phone
1	Steve Colman	Steve.Colman@dhs.gov	417-832-4731-O
2	Rebecca Thomson	Rebecca.Thomson@dhs.gov	212-680-8509-O (b)(6) -C
3	Darrell Hammonds	Darrell.Hammonds@dhs.gov	215-931-5546-O (b)(6) -C
4	Conrad Burnside	Conrad.Burnside@dhs.gov	770-220-5486-O (b)(6) -C
5	William King	William.King@dhs.gov	312-408-5575-O (b)(6) -C
6	Lisa Hammond	Lisa.Hammond@dhs.gov	940-898-5199-O (b)(6) -C
7	Ronald McCabe	Ronald.McCabe@dhs.gov	816-283-7007-O (b)(6) -C
8	Dan Feighert	Dan.Feighert@dhs.gov	303-235-4737-O (b)(6) -C
9	Craig Fiore	Craig.Fiore@dhs.gov	510.627.7252-O (b)(6) -C
10	Bill Webb	Bill.Webb@dhs.gov	425-427-2175-O

**Technological Hazards Division Headquarters  
Contacts**

Name Last, First	Branch	Title
Arszulowicz, John	REPP	Program Specialist
Barker, Ronald	CSEPP	(Emergency Preparedness)
Barnes, Joshua	REPP	Emergency Management Specialist
Broockerd, Larry	REPP	Training Specialist
Butler, Lolita	CSEPP	Secretary
Coleman-Marbury, Brenda	BizOps	Executive Assistant
Collins Jr., Richard W.	FRPCC	Program Specialist
Connell, Renae	REPP	Emergency Management Specialist
Coons, Albert	REPP	Lead Program Specialist
Darlington, Lisa	BizOps	(Emergency Preparedness)
DeFelice, Anthony	REPP	Acting Branch Chief
DeGilio, Lou	REPP	Attorney
Du, Jingtong (James)	ProfServices	Training Specialist
Eberst, William	ProfServices	Electronics Engineer
Fiore, Craig	REPP	Program Specialist
Flores, Kaori	REPP	Deputy Branch Chief
Fontenot, Rebecca	REPP	Emergency Management Specialist
		Emergency Management Specialist
		Program Specialist

Galloway, Clark	BizOps	(Emergency Preparedness)
Gardner, Patricia	REPP	Program Specialist
Gates II, Russell P. (Russ)	ProfServices	Senior Electronics Engineer
Gilder, David	CSEPP	Program Specialist
Greten, Tim	Division	Deputy Director
Hallett, Scott	REPP	Training Specialist
		Emergency Management
Halsey, LaShawn	REPP	Specialist
Hamilton, Lisa	REPP	Emergency Management Specialist
Hammond-Woodard, Odessa	ProfServices	Program Support Assistant
Herring, Joe	CSEPP	Deputy Director
Hobbs, Terry	CSEPP	Acting Branch Chief
Horton, Douglas	REPP	Attorney
Horwitz, Steve	ProfServices	Public Affairs Specialist
Howe, Michael	ProfServices	Health Physicist
		Program Specialist
Jeremy, David	REPP	(Emergency Management)
Kish, James	Division	Director
Mauldin, Deborah	REPP	Emergency Management Specialist
		Program Specialist
McSwain, Alonzo	BizOps	(Emergency Preparedness)
		Senior Program Specialist
Mingledolph, Juvart	BizOps	(Emergency Preparedness)
Nash Jr., Harry W.	REPP	Program Specialist
Nevitt, Jason	BizOps	Lead Program Specialist
Norville, Robert	CSEPP	(Emergency Preparedness)
Owens, Tamara	FRPCC	Administrative Program Specialist
Page, Christopher	tbd	Emergency Management Specialist
Purvis, James	REPP	Emergency Management Specialist
Quinn, Vanessa E.	REPP	Branch Chief
Name Last, First	Branch	Title
Ralston, Michelle	ProfServices	Emergency Management Specialist
		Program Specialist
Sanders, Tamara	BizOps	(Emergency Preparedness)
Schafer, John	ProfServices	Electronics Engineer
Scipio, Tanya	BizOps	Program/Policy Specialist
	BizOps	Branch Chief
		Program Specialist (Emergency
Sheffield, Bonnie	REPP	Management)
		Program Specialist
Strother, Thomas	BizOps	(Emergency Preparedness)
Taylor-Redman, Crystal	BizOps	Program Specialist
		Program Specialist
Tenorio, Pat	BizOps	(Emergency Preparedness)
Turner, Sheila	BizOps	Program Analyst
Ward, Paul	ProfServices	Health Physicist
Warnock, Thomas	CSEPP	Program Specialist
Wilt, Michael C	REPP	Emergency Management Specialist
		Program Specialist
Wierman, Ken	REPP	Training Specialist
	Division	Technological Hazards Division
	BizOps	Business Operations



ProfServices

REPP

CSEPP

FRPCC

Professional Services  
Radiological Emergency  
Preparedness Program  
Chemical Stockpile Emergency  
Preparedness Program  
Federal Radiological Emergency  
Preparedness Program

Per your request. I hope this helps. Let me know if I can be of any other assistance to you.

Bonnie Sheffield

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

**From:** Williams, Kevin  
**Sent:** Friday, March 18, 2011 12:49 PM  
**To:** LIA05 Hoc  
**Subject:** RE:

Both

**From:** LIA05 Hoc  
**Sent:** Friday, March 18, 2011 12:39 PM  
**To:** Williams, Kevin  
**Subject:**

I heard through the grapevine that you need a contact list for FEMA. What do you need Regions, HQ or both? I have all that here.

Bonnie Sheffield

FEMA REP Liaison  
NRC Operations Center  
(301) 816-5187

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1

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**From:** LIA05 Hoc  
**Sent:** Thursday, March 31, 2011 9:10 AM  
**To:** Feighert, Dan  
**Attachments:** FEMA Liaison Duties and Responsibilities2.docx

Please review and make any necessary changes.

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

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**From:** LIA05 Hoc  
**Sent:** Friday, April 01, 2011 2:55 PM  
**To:** Rebecca Fontenot  
**Cc:** Coons, Albert; Dan Feighert  
**Subject:** Files and DRAFT FEMA Liaison SOG  
**Attachments:** FEMA Liaison Duties and Responsibilities3.docx; NRC Operation Center FEMA Schedule.docx; Log for FEMA Liaison 03182011.docx; Log for FEMA Liaison 03172011.docx; Log for FEMA Liaison 03192011.docx; Log for FEMA Liaison 03202011.docx; Log for FEMA Liaison 03212011.docx; Log for FEMA Liaison 03222011.docx; LOG FOR FEMA Liaison 03232011.docx; LOG for FEMA Liaison 03242011.docx; Log for FEMA Liaison 03252011.docx; Log for FEMA Liaison 03262011.docx; Log for FEMA Liaison 03272011.docx; Log for FEMA Liaison 03282011.docx; Log for FEMA Liaison 03292011.docx; Log for FEMA Liaison 03302011.docx; Log for FEMA Liaison 03312011.docx

Please find the attached.

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

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**FEMA Liaison LOG**  
**NRC Operations Center (NRCOC)**  
**DATE: March 22, 2011**

<b>TIME</b>	<b>ENTRY</b>
0630	Harry Nash, FEMA HQ reported and assumed duty at the NRCOC. Reported to the NRCOC Liaison Operations Director.
0655	FEMA Liaison Log forwarded to FEMA Contact List.
0733	NRC SITREP forwarded to FEMA Contacts.
0747	NRC HOC requested information from FEMA on next FRPCC meeting.
0850	NRC Ops Ctr tasked with providing comments on DART Team Supplement.
0910	ET Director confirmed that NRC Chairman spoke with Senior FEMA authorities who responded to DART Team Supplement tasking.
1042	Message forwarded from FEMA HQ to NRC Operations Center concerning release of FEMA SITREP information to the public. FEMA's response is to not release any information concerning FEMA SITREP to public.
1108	Federal Liaison confirmed receipt of FRPCC requested information from FEMA HQ.
1500	Kenneth Wierman assumed the FEMA Liaison Watch.
1500	Requested good contact information for NASA Emergency Management.
1551	Request REPP HQ attendance on a DHS - Office of Intelligence and Analysis (I&A) on response to the Fukushima Daiichi reactor in Japan during one of its periodic teleconferences with State and local stakeholders. The tentative call scheduled to take place 12noon-2pm, Thursday, March 24, 2011.
1630	Transmitted NASA Contact information to the Federal Liaison.
1635	Received the FEMA Liaison Watchbill from Al Coons. The watch rotation is scheduled through the end of April.
1812	Received request for review on "Design Basis Threat" Talking Points.
1836	Transmitted response to the aforementioned request after review by the seismology group of the Reactor Safety Team.
1837	Transmitted the 1800 NRC Status Update.
2000	Request from State Liaisons to obtain information from Ms. Helen Sterling (CBP) on information regarding radiological monitoring of aircraft, passengers, luggage and cargo. Ms. Sterling responded that she will send the information tomorrow morning.
2300	Secured the FEMA Liaison Watch
	<b>NO FURTHER ENTRIES THIS DATE</b>

**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: March 18, 2011**

<b>TIME</b>	<b>ENTRY</b>
0700	Bonnie Sheffield assumed the FEMA Liaison Watch
	Briefing /Discussion on the events of the last 24 hrs.
0749	Contacted Harry Sherwood about the process of communicating with the States
0848	Received the comments from NRC on the EPZ paper and transmitted them to HQ
0932	Requested FRPCC notes from HQ
1000-1100	Worked on clarifying the OPA talking point paper and the EPZ paper, for Mr. Mike Markley from NRC
1008	Transmitted the EPZ paper from FEMA HQ, it is on the shared drive and sent to NRC Regions. Still waiting for a response on how and who will distribute the information
1100 -1130	FEMA All hands meeting conference call. The administration is pleased with what we have done so far. See a need to have more involvement with the program. Thank you to all the staff that is working. The key for us is to put our name on all the e-mails. We are to send the log sheets daily to Mr. Sherwood and Ms Quinn. Asked to have a call off line.
1145	Verified that the OPA received the EPZ paper.
1230	Transmitted the e-mail that went out to all the Fed s on EPZ
1250	Per request the FEMA contact list was sent to Kevin Williams NRC
1326	Transmitted the EPZ paper to the RAC chairs.
1345	Waiting for a response for conformation on the line of communication with documents.
1350	Waiting for response for a call from HQ that was requested at 1130
1445	Ken Wierman assumes the FEMA Liaison Watch
1520	Transmitted the 0600 NRC Status Update
1534	Transmitted NRC Chairman Jaczko's Testimony from yesterday.
1540	Transmitted 18 March 2011 1500 NRC Talking Points.
1553	Transmitted information regarding White House Conference Call with Western State and Pacific Territory Governors – scheduled 1900.
1554	Transmitted information on an NRC Commissioners meeting on Monday, March 21, 2011.
1558	Transmitted request to brand the EPZ Document.
1625	Transmitted information regarding the State Health Officials Conference Call.
1638	Transmitted information on the NRC Public Meeting on Monday, 21 March 2011.
1752	Transmitted latest NRC Press Release.
1830	Transmitted the 1800 NRC Situation Report.
1847	Transmitted the proposed DHS/CBP action level on radiological contamination from passenger baggage.
1900	Monitored White House Conference Call with West Coast State and Pacific Territory Governors.
2005	Transmitted NRC In the News Summary.
2143	Transmitted IN 2011-05.
2300	Secured the FEMA Liaison Watch until 0700 19 March 2011.
	<b>NO FURTHER ENTRIES THIS DATE</b>

**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: March 21, 2011**

<b>TIME</b>	<b>ENTRY</b>
0630	Bonnie Sheffield assumed the FEMA Liaison Watch Briefing /Discussion on the events of the last 24 hrs
0640	Transmitted NRC Status report to FEMA Contact list Transmitted FEMA Liaison Log to FEMA Contact list
0730	Transmitted Public meeting notice to FEMA Contact list, FEMA RAC List and Mr. Kish
0811	NRC State Liaison asked if the FEMA SITREP can be distributed to the public. Transmitted the question to FEMA attorneys and Ms Quinn, Mr. Sherwood, and Mr. Feighert.
0843	Anthony DeFelice answered the question of the FEMA SITREP to be distributed to the public. It cannot be released to the public but can be release to the Federal Family. Ms. Quinn requested for Harry Nash to be added to the FEMA Liaison list.
0851	Coordinated with Joe Anderson and Security to add Harry Nash name to the FEMA Liaison List.
0900	NRC Public meeting
0911	Transmitted the Duties and Responsibility to Dan Feighert per his request.
0935	Received answer From Paul ward for question from <b>March 18 2011</b> regarding Alpha partials on baggage. Forward message to Federal, State Liaisons
1038	Transmitted EPZ paper to NRC Protective Measures Team
1102	Requested For Mr. Sherwood to call -about donations from private companies
1137	Called Mr. DeFelice to see who was in the office , Al Coons is the only Management that is in the office ,all other s are at FEMA HQ in DC for meeting on Thursday
1138	Requested For Mr. Coons to call - about donations from private companies
1159	AL Coons called and stated he did not know who in FEMA or other agencies that would take care of the donations from private companies. Suggested to contact Marc Madden at NRCC
1222	Marc Madden informed the Ops center that there is not any consolidated effort in the donations of products to the Japan event
1340	Received an email requesting information on the most likely threat/vulnerability to each of our nuclear power plants in Region VI
1500	Ken Wierman assumed the FEMA Liaison Watch.
1501	Attended Interagency conference call hosted by Mr. Michael Byrne.
1650	Received the REPP SITRep and forwarded it to the Federal Liaison.
1830	Transmitted the 1800 NRC Stats Update.
2030	Monitored NRC ET/Japan Team Conference Call. Items were discussions regarding the confirmation of smoke or steam emitting from the plant, an intergovernmental decision on the source term used for projections and initiation of discussions regarding relaxing the 50 mile US Personnel evacuation zone. Discussions involved getting a recommendation from IAEA and if relaxed, only to the 20km distance as recommended by Japan.
2300	Ken Wierman secured the FEMA Liaison Watch
	<b>NO FURTHER ENTRIES THIS DATE</b>



**FEMA Liaison LOG**  
**NRC Operations Center**  
**DATE: 31 March 2011**






**NRC Operation Center  
FEMA Liaison  
Schedule  
March/April 2011**

FEMA Staff	Monday March 14,	Tuesday March 15,	Wednesday March 16,	Thursday March 17,	Friday March 18,	Saturday March 19,	Sunday March 20,
0700-1500	Ken	Ken	Ken	Bonnie	Bonnie	Bonnie	Bonnie
1500-2300	Ken	Ken	Ken	Ken	Ken	Ken	Ken

FEMA Staff	Monday March 21,	Tuesday March 22,	Wednesday March 23,	Thursday March 24,	Friday March 25,	Saturday March 26,	Sunday March 27,
0700-1500	Bonnie	Harry	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie
1500-2300	Ken	Ken	Harry	Ken	Ken	Ken	Ken

FEMA Staff	Monday March 28,	Tuesday March 29,	Wednesday March 30,	Thursday March 31,	Friday April 1,	Saturday April 2,	Sunday April 3,
0700-1500	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie
1500-2300	Ken	Ken	Ken	Ken	Ken	Ken	Ken

FEMA Staff	Monday April 4	Tuesday April 5	Wednesday April 6	Thursday April 7	Friday April 8	Saturday April 9	Sunday April 10
0700-1500	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie
1500-2300	Ken	Ken	Ken	Ken	Harry	Harry	OPEN

FEMA Staff	Monday April 11	Tuesday April 12	Wednesday April 13	Thursday April 14	Friday April 15	Saturday April 16	Sunday April 17
0700-1500	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie	Bonnie
1500-2300	OPEN	OPEN	OPEN	OPEN	Ken	Ken	Ken

**FEMA Liaison Staff: Ken Wierman, Bonnie Sheffield, Harry Nash**

❖ **Days that the FEMA Liaison Team is not available :**

**Harry Nash March 28 – April 4, - Class in FL. April 11 -15 TMI EX**

**Ken Wierman, Drill-April 8-10 April 11 -15 TMI EX**

