

**From:** [Chokshi, Nilesh](#)  
**To:** [Dube, Donald](#); [Johnson, Michael](#)  
**Subject:** RE: Japan  
**Date:** Friday, March 11, 2011 3:28:09 PM

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I did have a similar discussion with Japanese who are visiting here. We also have some speculation.

**From:** Dube, Donald  
**Sent:** Friday, March 11, 2011 11:00 AM  
**To:** Johnson, Michael; Chokshi, Nilesh  
**Subject:** FW: Japan

**From:** Dube, Donald  
**Sent:** Friday, March 11, 2011 10:56 AM  
**To:** Ader, Charles; Clark, Theresa; Landry, Ralph  
**Subject:** Japan

If units 1, 2 and 3 have all lost emergency diesel generators, it would seem that this is more than coincidence and could be some common cause failure such as underground piping failure of (ocean) cooling water to the EDG lube oil coolers. Just speculation at this point.

Don

[http://www.world-nuclear-news.org/RS\\_Massive\\_earthquake\\_hits\\_Japan\\_1103111.html](http://www.world-nuclear-news.org/RS_Massive_earthquake_hits_Japan_1103111.html)

Q/1

**From:** Chokshi, Niles  
**To:** Johnson, Michael; Holahan, Gary  
**Cc:** Flanders, Scott  
**Subject:** Japanese Event  
**Date:** Saturday, March 12, 2011 1:18:25 PM  
**Importance:** High

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Mike and Gary,

In anticipation of a number of questions we will get internally as well as from the Hill and other external sources, and calls for assistance from Japan and IAEA, and to get out in front of this monumental event, Scott and I would like to discuss the following proposal with you on Monday morning.

I suggest we setup a small interoffice (DSER, DE of NRO, RES, NRR, DSRA, and risk divisions of RES and NRR) task group of seismic/tsunami/PRA experts with focus on getting information, fielding questions, preparing agency responses, and interacting with the internal and external stakeholders. I am sure that both the NRO and NRR will get many questions on how we design and a very renewed interest in GI-199. SORCA will also be under a greater scrutiny. I think yesterday's events, in some ways, may shift the paradigm in which the siting issues are viewed.

Here is my suggested straw man formation of the task group and some initial thoughts on what will be the initial actions (I am focusing on areas of our purview, there will be lot of questions about EP, emergency response and other things. We may want to include that also):

Leader – SES

Collection and Synthesis of information – leader and Annie

Seismic/ground motion – Cliff Munson, Jon Ake

Tsunami – Henry Jones, Annie Kammerer

Response/Fragility of SSCs – Goutam, Jim Xu, Syed Ali, Kamal

Systems/PRAAs – Don Dube, Marty Stutzke

Liaison with OPA, OIP, Op. Exp. and NSIR

I have tried to select people who have knowledge, are key players in GI-199, and has good international experience – specially with the Japanese. Of course, this should be mutually decided among the offices.

The task force's immediate actions will be as follows:

Gather information on event, communicate official agency versions

Revisit Qs and As associated with GI-199, Kashiwazaki event, Indian tsunami event, and add any other pertinent questions

Develop communication plan

Respond to any questions

0/2

Prepare briefing material on how do we design

The following information to deal with more technical issues and to pursue information need which we may develop.

Understand Fukushima designs (These are modified GE versions)

Summarize fragilities of BWR components

Look at the key seismic sequences of US BWR PRAs and understand progression from CD to releases (station black out is always a significant sequence in any seismic PRA)

Understand key operator actions and recovery actions

Understand our EPs

Examine our GI-199 approach – is it still a sound and robust approach? (I have some thoughts)

Identify any near-term need for studies/consultancy

Develop assistance plans

Etc.

I think we need to do this as soon as possible. Please let me know your thoughts. I am available to do whatever is needed – I have cancelled my travel plan for the next week.

Thanks,

Nilesh

## Hsii, Yi-Hsiung

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**From:** Donoghue, Joseph  
**Sent:** Monday, March 14, 2011 5:35 PM  
**To:** Bielen, Andrew; Budzynski, John; Fletcher, Michele; Forsaty, Fred; Gilmer, James; Hayes(NRO), Michelle; Patel, Amrit; Saenz, Diego; Schmidt, Jeffrey; Lu, Shanlai; Thomas, George; VanWert, Christopher; Hsii, Yi-Hsiung  
**Cc:** Ader, Charles; Lombard, Mark  
**Subject:** Events in Japan

**Many of you may have already learned that folks from NRR are supporting the agency response to the events in Japan.**

**I ask all of you to stay focused on our work, but to be ready to respond to requests for us to help. I anticipate that we may be asked to supply experts in certain areas to supplement the Ops Center teams. Also, you can probably bet that there will be many items of controlled correspondence that the agency will need to process and that reactor systems expertise may be required to help answer.**

**Keep in mind that any official requests for information need to be directed to the Operations Center.**

**Joe**

**Esmaili, Hossein**

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**From:** Gibson, Kathy  
**Sent:** Monday, March 14, 2011 8:08 AM  
**To:** Scott, Michael; RES\_DSA  
**Subject:** Re: Japan's Nuclear Plant Status

Here's the NISA website:

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

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

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

I have found the NISA (Japan's nuclear regulatory agency) and NEI websites to be the most informative. Also John Voglewede heard from Toyo Fuketa, one of our JAEA colleagues - he and his family are ok as well as those at JAEA's office.

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

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

Good morning.

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

<http://ansnuclearcafe.org/>

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

Mike

Q/4

## Thomas, George

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**From:** Donoghue, Joseph  
**Sent:** Tuesday, March 15, 2011 9:52 AM  
**To:** Hsii, Yi-Hsiung  
**Cc:** Schmidt, Jeffrey; Lu, Shanlai; Thomas, George  
**Subject:** Q and A Preparation

Gene. I would like you and the other leads to develop a set of questions and answers about the designs that NRO has or is reviewing that we can anticipate as a followup to Japan

Brainstorm together on the Qs and then get other folks in the branch to help write answers. This is to help us be prepared for the eventual flood of green tickets we will get

I don't want this to impede other work. People should fit this in to current schedules and if they are too busy, don't include them in the effort

See ya thursday

Thanks, joe

## **REACTOR SYSTEM ISSUES AND COMMENTS**

Based on discussions among the lead reviewers of SRSB, the following is the draft questions related to new reactor design based on Fukushima Daiichi nuclear event. The questions and comments are developed in six areas: 1) tsunami and seismic load assumption, 2). station blackout conditions and mitigation, 3). spent fuel pool design criteria improvement, 4). site requirements, 5).hydrogen recombiner, 6). operator actions.

### **Tsunami and seismic load**

Q1. What should be the maximum design basis seismic load on each plant site? Should we ask licensees or applicants to assume the worst based on 150 years history? What should be the practical limit while, at the same time, prevent the similar situation from happening.

Q2. If we raise the design basis seismic limit, what will be the impact on fuel seismic evaluation, the control rod insertability and coolability? What will be the requirements on spent fuel rack structure requirements?

### **Station blackout conditions and mitigation**

Q1. For new reactor designs, we should locate the diesel generators or gas turbine generators at high ground to prevent the flooding and associated damage due to tsunami while satisfying seismic requirements.

Q2. For new reactor designs with backup AC power, one of the diesel engine or gas turbine may need to be installed away from the site to prevent the localized damage.

Q3. For new reactors with passive designs, if the seismic or tsunami damage the gravity cooling system, there is no way to cool the reactor core. Therefore, it may be necessary to install AC backup power unit away from the site.

Q4. In passive plants DGs are not safety grade, RTNSS treatment of DGs is enough? DG fuel tanks buried or on ground? Are they seismically and tsunami proof?

### **Spent fuel pool design criteria improvement**

Q1. Considering the possibility of flooding the spent fuel pool due to tsunami, no spent fuel pool should be designed to take the credit of solute Boron in the water.

Q2. AC backup power and safety rated cooling system should be made available to cool the pool and supply fresh water.

Q3. We should immediately move all the spent fuel from all over the country into Yucca Mountain. Leaving large number of spent fuel all over the 104 plants makes US vulnerable to deal with this kind of unexpected natural disaster.

### **Site Requirements**

Q1. Considering the collateral damage between many reactor units on one site, should we limit the number of reactor unit on each site or the minimum distance between every two reactor units?

Q2. With some in-land plants in US, it may be feasible not to assume tsunami load but flooding from nearby water source should be considered.

### **Hydrogen Recombiner**

Q1. We should require licensees to install hydrogen recombiner in each containment and the reactor building above the reactor.

### **Operator Actions**

Q.1. Are the EPG/ERG/SAG adequate to mitigate the accidents?

Q.2. What instruments become unavailable due to SBO?

### **NRC Safety and Regulation**

Q1. Should we redefine the DBA requirements based on unexpected earth quake with the combination of tsunami?

## REACTOR

- Q1. Can you postulate the Fukushima Daiichi scenario for -----?
- Q.2 Is the scenario based on DBA assumptions?
- Q.3 Is the scenario based on severe accident ?
- Q.4 If you can postulate the Fukushima Daiichi scenario in -----, what are the ----- design features which will mitigate the accident?
- Q.5.. What are the weaknesses in the plant design which will prevent from achieving success path (safe shutdown)?
- Q.6. Are the EPG/ERG/SAG adequate to mitigate the accidents?
- Q.7 What instruments become unavailable due to SBO?
- Q.8 In passive plants DGs are not safety grade, RTNSS treatment of DGs is enough? DG fuel tanks buried or on ground? Are they seismically and tsunami proof?

*Reber*

**Kuritzky, Alan**

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**From:** Kuritzky, Alan  
**Sent:** Tuesday, March 15, 2011 8:55 AM  
**To:** Uhle, Jennifer  
**Subject:** B5b vis-a-vis Japan [OUO]  
**Attachments:** Potential Mitigation Strategies - BWRs01.wpd

\*\*\*This email and attachment contain ~~OUO-SRI~~\*\*\*

Jennifer,

A former contractor for the B5b project reminded me that as part of that project, the NRC staff and licensee staff each developed plant-specific lists of mitigation strategies for very severe plant damage scenarios (i.e., loss of all AC and DC power). I found the attached file that lists a number of the mitigation strategies that were postulated for response to a loss of all plant power (AC and DC) at BWRs. I'm not sure how much use this file is (many of the proposed strategies are things that would have to have been considered long before the accident), but it does raise the point that a lot of strategies were postulated and documented as part of the B5b work. I know that a comprehensive list was developed for both BWRs and PWRs. There may also have even been some lists that were put together for specific plant types, but I'm not sure. Unfortunately, all of the staff involved in this project have scattered around the agency and I'm not sure who controls this information. The last I knew, it was under Stacey Rosenberg in NRR/DPR (I think her branch may have been called something like Special Projects Branch, but it no longer exists according to the current NRR/DPR organizational chart). It is something you may want to look into.

Alan

*D/6*

## Hsii, Yi-Hsiung

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**From:** Lu, Shanlai  
**Sent:** Wednesday, March 16, 2011 5:32 PM  
**To:** Donoghue, Joseph  
**Cc:** Thomas, George; Schmidt, Jeffrey; Hsii, Yi-Hsiung; Ader, Charles; Lombard, Mark  
**Subject:** SRSB staff comments and questions regarding Fukushima disaster in preparation of green ticket regarding new reactor regulation improvement  
**Attachments:** Fukushima.docx

Joe,

Per your request, George, Hsii, Jeff and I gave a first shot about the requested action. It is a draft.

Thanks.

Shanlai

## **REACTOR SYSTEM ISSUES AND COMMENTS**

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Q2. AC backup power and safety rated cooling system should be made available to cool the pool and supply fresh water.

**From:** Burnell, Scott  
**To:** Brenner, Eliot; Hayden, Elizabeth; Harrington, Holly; McIntyre, David; Couret, Ivonne; Janbergs, Holly; Screnci, Diane; Sheehan, Neil; Hannah, Roger; Ledford, Joey; Chandrathil, Prema; Mityng, Viktoria; Dricks, Victor; Uselding, Lara  
**Cc:** Anderson, Brian  
**Subject:** B.5.B Q&A  
**Date:** Tuesday, March 22, 2011 2:20:11 PM  
**Attachments:** B5b\_QA.docx

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All;

The attached document includes RST-approved Q&A for dealing with B.5.b mitigative measures at U.S. plants. I'll be posting them to WebEOC soon.

Scott

Q/8

### **1. What mitigative measures are required in the event of large fires at a plant?**

Following the events of Sept. 11, 2001, NRC required all nuclear plant licensees to take additional steps to protect public health and safety in the event of a large fire or explosion. In accordance with NRC regulations, all nuclear power plants are required to maintain or restore cooling for the reactor core, containment building, and spent fuel pool under the circumstances associated with a large fire or explosion. These requirements include using existing or readily available equipment and personnel, having strategies for firefighting, operations to minimize fuel damage, and actions to minimize radiological release to the environment. In general, mitigative strategies are plans, procedures, and pre-staged equipment whose intent is to minimize the effects of adverse events. If needed, these mitigative strategies could also be used during natural phenomena such as earthquakes, tornadoes, floods, and tsunamis.

### **2. When did these mitigative measures become required?**

After the Sept. 11, 2001 attacks, NRC issued an Interim Compensatory Measures Order that required all nuclear plant licensees to take additional steps to protect public health and safety in the event of a large fire or explosion. After completing the NRC rulemaking process, the requirements of this NRC Order were formally converted to regulations in 10 CFR 50.54(hh)(2). The regulations took effect in March 2009.

### **3. How do we know these will work/be effective?**

The NRC performed a comprehensive review that looked at what could happen in the event of a large fire or explosion at a nuclear power plant. As part of this review, the NRC conducted detailed engineering studies of a number of nuclear power plants. These studies included national experts from Department of Energy laboratories, who used state-of-the-art experiments, structural analyses, and fire analyses. The studies performed during this review confirmed that current operating nuclear plants are robust. In addition, operating reactor licensees were required to assess site-specific conditions and develop mitigation strategies to protect the reactor core, containment building, and spent fuel pool at each nuclear power plant. The NRC evaluated the strategies for each operating reactor licensee and issued a safety evaluation report to document the commitments to implement these mitigation strategies. Due to the highly sensitive nature for plant security contained in these reports, they are not available to the public.

### **4. Has any plant ever had to employ them?**

The NRC is not aware of any plant that has needed to employ these mitigative measures in response to an actual event.

**5. Are they regularly tested/inspected?**

All mitigative measures have been implemented by nuclear plant licensees and were inspected by the NRC before the end of 2008. In accordance with NRC regulations, all nuclear plants are required to maintain equipment and procedures that support these mitigative measures. A variety of routine NRC inspections address selected aspects of these mitigative measures, but the most comprehensive NRC inspection of this area is a triennial fire protection inspection program. Every 3 years, NRC inspectors who are knowledgeable in the areas of fire protection and reactor operations conduct an onsite inspection of the storage, maintenance, and testing of equipment related to these mitigative measures.

**From:** [Gaarder, Nancy](#)  
**To:** [Janbergs, Holly](#)  
**Subject:** RE: Meeting Transcript  
**Date:** Tuesday, March 22, 2011 2:28:44 PM

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Beth,

DOE and Sandia have referred me to the NRC for information about the 2006 Sandia risk analysis that indicated a "high probability," roughly 36 percent, of early containment failure as a result of melt-through when core damage occurs in a BWR/Mark 1 reactor.

I'm not sure whom to contact at the NRC, so, since we've exchanged emails, I thought I'd write you.

Is there someone at the NRC who can talk with me about this risk analysis? Or, can you direct me to the proper person in public affairs?

Thank you,

Nancy

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## Omaha World-Herald

[www.omaha.com](http://www.omaha.com)

### Nancy Gaarder

Reporter

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1314 Douglas St. - Suite 700

Omaha, NE 68102

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**From:** Janbergs, Holly [<mailto:Holly.Janbergs@nrc.gov>]  
**Sent:** Tuesday, March 22, 2011 8:24 AM  
**To:** Gaarder, Nancy  
**Subject:** RE: Meeting Transcript

Nancy,

I believe those remarks will only be posted as part of the full transcript.

Thank you,  
Beth

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**From:** Gaarder, Nancy [<mailto:Nancy.Gaarder@owh.com>]  
**Sent:** Tuesday, March 22, 2011 9:22 AM  
**To:** Janbergs, Holly  
**Subject:** RE: Meeting Transcript

This is excellent, Holly and Beth.

Thank you.

9/9

Is there any chance that Bill Borchardt's prepared remarks could be posted at an earlier date? If not, I'll listen to the webcast (it's just that written text is a quicker and more accurate way to glean key points.)

Thank you,

Nancy

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## Omaha World-Herald

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Omaha, NE 68102

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**From:** Janbergs, Holly [<mailto:Holly.Janbergs@nrc.gov>]

**Sent:** Tuesday, March 22, 2011 6:43 AM

**To:** Gaarder, Nancy

**Subject:** Re: Meeting Transcript

Nancy,

A full transcript of the briefing will be posted later in the week.

Thank you,

Bethany

Beth Janbergs

Public Affairs Assistant

301-415-8211

Group R

(Records Withheld  
In Part)

**Titus, Brett**

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**From:** Nguyen, Quynh *INAC*  
**Sent:** Wednesday, March 16, 2011 1:48 PM  
**To:** Titus, Brett  
**Subject:** FW: Congressional Query: FW: This was in media last night related to very bad Japan scenario now in play

**Importance:** High

DONE. See below. *release*

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**From:** Decker, David *DA*  
**Sent:** Wednesday, March 16, 2011 1:24 PM  
**To:** Wittick, Brian; Meighan, Sean; Nguyen, Quynh  
**Cc:** Taylor, Robert  
**Subject:** RE: Congressional Query: FW: This was in media last night related to very bad Japan scenario now in play

The info needed was basically that the material won't explode. I've conveyed that back to the staffer and believe that answers his question. I'll let you know if there is any follow-up.

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**From:** Wittick, Brian *WDO*  
**Sent:** Wednesday, March 16, 2011 10:24 AM  
**To:** Meighan, Sean; Nguyen, Quynh  
**Cc:** Decker, David  
**Subject:** HOT: Congressional Query: FW: This was in media last night related to very bad Japan scenario now in play

Request answer to the below question. Please note the assertion by a Nuclear Engineer in the article that spent fuel in a SFP can overheat, melt and form a critical mass such that it may explode. It would be best if we could respond with an answer that characterizes the possible scenario of fuel melt in a SFP and the type of energetic force that could result.

Thanks

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

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**From:** Decker, David *DA*  
**Sent:** Wednesday, March 16, 2011 9:45 AM  
**To:** Wittick, Brian  
**Cc:** Weil, Jenny; Dacus, Eugene; Riley (OCA), Timothy; Powell, Amy  
**Subject:** FW: This was in media last night related to very bad Japan scenario now in play

Brian,  
Here's one more question that came in that we'd appreciate your help in getting to the right staff to answer.  
Thanks!

David

**From:** Beck, Chris [mailto:Chris.Beck@mail.house.gov]

**Sent:** Tuesday, March 15, 2011 11:56 AM

**To:** Decker, David

**Subject:** Re: This was in media last night related to very bad Japan scenario now in play

Thanks David. Main question is can spent fuel rods (or even fresh fuel rods) create a nuclear fission explosion. - cb

On 3/15/11 11:50 AM, "Decker, David" <David.Decker@nrc.gov> wrote:

Chris,

Let me see if I can get someone to check this out. I hadn't seen the article, and in general, we haven't been commenting too much on news articles since it's hard to know exactly what's happening.

David

**From:** Beck, Chris [mailto:Chris.Beck@mail.house.gov]

**Sent:** Tuesday, March 15, 2011 11:39 AM

**To:** Decker, David

**Subject:** FW: This was in media last night related to very bad Japan scenario now in play

Hi David,

Does NRC think this story is accurate? Could spent fuel rods create a fission reaction? I am surprised by this, since I thought fuel rods in the US or Japan use low-enriched uranium, which will not result in a fission explosion. Please advise. - cb

Fission Criticality In Cooling Ponds Threaten Explosion At Fukushima

<<http://www.dcbureau.org/201103141303/Natural-Resources-News-Service/fission-criticality-in-cooling-ponds-threaten-explosion-at-fukushima.html>> <<http://www.dcbureau.org/201103141303/Natural-Resources-News-Service/fission-criticality-in-cooling-ponds-threaten-explosion-at-fukushima/Print.html>>

Monday, 14 March 2011

Written by Joseph Trento <<http://www.dcbureau.org/Staff/joe.html>>

*Photo: U.S. Navy*

The threat of a fission explosion at the Fukushima power facility emerged today when the roof of the number three reactor exploded and fears that a spent fuel pool, located over the reactor, has been compromised. The pool, designed to allow reactor fuel to cool off for several years, was constructed on top of the Fukushima reactors instead of underground. As of 2010, there were 3450 fuel assemblies in the pool at the number three reactor. The destruction of the number three reactor building has experts concerned about whether the spent fuel storage pool, which sits just below the roof, could have survived intact the hydrogen explosion. The explosion was much more severe than Saturday's blast at the number one reactor.

As massive amounts of seawater are pumped by fire trucks into Fukushima's failing nuclear reactors and cooling ponds, the radioactive waste water, now laden with a variety of radioisotopes, is being flushed into the sea.

Just how much danger the spent fuel pool raises is made clear in a November 2010 powerpoint presentation from the

Tokyo Electric Company detailing how fuel storage works at the huge complex  
<[http://www.nirs.org/reactorwatch/accidents/6-1\\_powerpoint.pdf](http://www.nirs.org/reactorwatch/accidents/6-1_powerpoint.pdf)> .

The fuel inventory in the pool is detailed on page 9. According to TEPCO, each reactor generates 700 "waste" fuel assemblies a year, and there are 3450 assemblies in each pool at the Fukushima Daiichi plant, plus another 6,291 in a common pool in a separate building.

As shown in slide 10, the common pool building sits at ground level, with the pool itself above ground. The building also has windows on at least one side, and experts fear these were broken out by the tsunami which would have flooded the building.

According to Albert Donnay, a former nuclear engineer, "This means the common pool is now full of radioactive and corrosive seawater that will cause the fuel assemblies to fail and burst open, as they are doing inside the reactor cores that have been deliberately flooded with seawater. If the pool drains or boils away, the fuel will melt, burn and even possibly explode if the fuel collapses into a sufficiently critical mass."

This may explain why the Japanese government began adding boric acid to the reactor spent fuel pools at the facility shortly after the earthquake and tidal wave.

The Japanese government has not explained why it is adding boric acid and if the acid is being used to prevent criticality in the reactor or in the spent fuel pool. A spokesman for the Embassy of Japan, in Washington, D.C., said the boric acid was being only added as a "precautionary measure," but said the Embassy did not know why. Because the GE reactor's control rods are made of boron, and they were automatically inserted when the earthquake struck to end fission in the reactor, there should have been no need for additional boric acid. But if fuel rods had been compromised and the damaged fuel bundles were not properly separated, they can become critical and boric acid could be used to help prevent a far more serious meltdown in the spent fuel pools.

When the power was lost at the site, the cooling system for the pools would have run out of water in about a day. The water in these pools would heat up and evaporate to the point where the tops of the fuel bundles would be exposed about 24 hours after the cooling system shut down.

Experts fear the explosion rained debris into the pool that stopped natural cooling of the fuel bundles or knocked the bundles together, damaging them, sending the irradiated fuel chunks to the bottom of the pool where they could reach critical mass. "They got a one-two punch," said David Lochbaum, nuclear safety engineer of the Union of Concerned Scientists and a consultant to both industry and the Nuclear Regulatory Commission. Lochbaum told Roger Witherspoon on [newjerseynewsroom.com](http://newjerseynewsroom.com), "If it had just been the earthquake, or just the tsunami, we wouldn't even be talking about this. But the combination of nature was more than they could handle. It doesn't seem that they have lost control yet. But they have definitely run out of options.

"If those solutions - the sea water and the boric acid - don't work, there are no more arrows in the quiver. They have shot everything they have, they have run out of options and there is nothing left."

#### *Fukushima nuclear power plant after the earthquake.*

The problem for the Tokyo Electric Company engineers is water containing boric acid has to circulate in the pools to keep the bundles from going critical.

Both United States and Japanese governments have for decades allowed re-racking of the pools to reduce the originally-designed minimum safe distance between the assemblies so that more rods can be stored in each pool. Utilities complained they were running out of storage space on site at the reactors. The problem is if the spent fuel gets too close, they will produce a fission reaction and explode with a force much larger than any fission bomb given the total amount of fuel on the site. All the fuel in all the reactors and all the storage pools at this site (1760 tons of Uranium per slide #4) would be consumed in such a mega-explosion. In comparison, Fat Man and Little Boy weapons dropped on Hiroshima

and Nagasaki contained less than a hundred pounds each of fissile material.

According to Donnay, "Several cores worth of spent fuel are usually stored in these pools until they are cool enough to transfer into dry cask storage. In comparison, the reactor itself contains only one core, and its total radioactivity is less than that in each spent core."

Nuclear Information Resource Service led a coalition of groups that petitioned the US Nuclear Regulatory Commission in 2005 requesting emergency enforcement action on the vulnerability of the Mark I and II elevated nuclear waste storage pool. The coalition's petition to the NRC was denied.

Another worry for engineers is that in 2009 plutonium-based mixed oxide fuel produced by the huge French nuclear power company AREVA was loaded into reactor number three.

Correspondent Celia Sampol spoke to AREVA and the company spokesman said AREVA will not make a specific statement on the issue or on the possible losses for its activities in Japan because "today the priority is for the Japanese authorities to save people and help victims". AREVA's employees in Japan were contacted on Friday, all are safe and some of them left Japan. Anne Lauvergeon "will talk about that in France soon".

Nathalie Bonnefoy, from the MELOX Division of AREVA La Hague, France, said, "Today, the type of fuel used in the reactor is absolutely not involved in the problems at the Fukushima facility...It's not a matter of the MOX fuel exploding; the problem is if you have a loss of cooling, you have a risk of fusion and the hydrogen released could generate difficulties in contact with air, but it is independent from the type of combustible used."

"In this site, all the MOX fuel has been already loaded in the reactor (it started in October 2010)," no MOX fuel is stored on site here. On others sites, a part of the MOX fuel is stored on site (every 18 months you have to renew one third of the MOX fuel because it has lost efficiency). According to Bonnefoy, four reactors in Japan are burning MOX fuel fabricated by AREVA; the first loading took place in December 2009; AREVA signed contracts with eight (out of eleven) Japanese electric companies to supply MOX fuel, but the French group has no reactors of its own in Japan. The company does have about 100 employees in Japan.

According to NIRS (Nuclear Information Resource Service) at <http://www.nirs.org/factsheets/brownsferryfactsheet.pdf> In <http://www.nirs.org/factsheets/brownsferryfactsheet.pdf%22In> the GE Mark I design, the irradiated fuel pool, containing billions of curies of high-level atomic waste, sits atop the reactor building, outside primary containment and vulnerable to attack, according to both NRC documents (2001) and the National Academy of Sciences (2005)."

*Cutaway drawing of a typical Boiling water reactor (BWR) Mark I Concrete Containment with Steel Torus (suppression pool), as used in the BWR/1, BWR/2, BWR/3 and some BWR/4 model reactors. Photo: Sandia National Laboratories*

The same diagram appears in the Sunday New York Times, pA11, with the uppermost rectangular chamber just to the left of the reactor top identified as the spent fuel storage pool, but the accompanying article does not discuss it.

Donnay said, "If these pools are breached (as could have happened in the explosions, Fukushima #3 looks worse than #1) and can no longer hold water, the spent fuel racked inside them will start to overheat, and eventually melt and burn. And since there is no longer any roof above these pools in reactors 1 and 3, all the radioactivity they contain is directly open to the atmosphere."

According to a Defense Department source, the cesium detected in the atmosphere around the plant could be coming from the spent fuel pools.

According to Donnay, there is an additional danger from used fuel being stored in casks: "I'm also worried about the dry cask storage pods that were on the site before the tsunami.

Full casks are very heavy and probably would not be carried away by the flood, but some were probably not full. Any that were only partially filled with spent fuel would have air locked into the unfilled chambers, making them able to float in water. Did the tsunami carry any of these casks away? Are they all still onsite? Before and after satellite photos should be able to show this clearly, but Google Earth is not showing after photos of the Fukushima plant.

John Kappenman  
Storm Analysis Consultants

Phone: 218-727-2666

Cell: (b)(6) *etc*

Fax: 218-727-2726 *W/H*

email: (b)(6)

<http://www.linkedin.com/in/johnkappenman>

web downloadable pdf articles:

Geomagnetic Storms - Space Weather and Electric Power Grid Impacts -

<http://my.pogoplug.com/share/G4CdFCw3zGHXM1MtZli BA/>

Electron Tube Technology for Power Electronics, HVDC and FACTS Applications -

<http://my.pogoplug.com/share/a10GLIFPg08FPUhvEWBcaA/>

Breaker Blanket Cold Weather Protection -

<http://my.pogoplug.com/share/GTd8I3dQLm0aS2dfASQZOA/>

----- End of Forwarded Message

**From:** Janbergs, Holly  
**To:** (b)(6) 7 Ex. 6  
**Subject:** Re: Price-Anderson Act  
**Date:** Sunday, March 20, 2011 12:23:00 PM

---

Mr. Beckerman,

Thank you for your concern. We currently have a fact sheet on the Price-Anderson act available for viewing here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/funds-fs.html>

I will look into other areas of the website where information on the Act could be added.

Thank you again,  
Beth

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/2

**From:** Ghneim, Munira  
**To:** Janbergs, Holly  
**Subject:** Concerned Citizen - Joy Reese  
**Date:** Sunday, March 20, 2011 10:34:10 AM

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Good Morning,

Joy Reese is a concerned citizen who is worried about the radiation levels in Chicago. She would someone to please call her today. Joy can be reached at (b)(6)  
(b)(6) Her email address is (b)(6) She would prefer if someone called rather than emailed her. Ex. 6

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services

R/3

**From:** Gerke, Laura  
**To:** (b)(6) Ex. 6  
**Date:** Sunday, March 20, 2011 10:34:30 AM

---

Kevin,

Thank you for your suggestion. The NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day; additionally, we have sent eleven NRC officials to Japan as part of a U.S. International Agency for International Development team.

To find out additional information, you might want to visit our recently updated website; information is provided at <http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-053.pdf>.

Thank you again for contacting the NRC,  
Laura Gerke

**From:** Kevin Bannon (b)(6) Ex. 6  
**Sent:** Saturday, March 19, 2011 12:35 PM  
**To:** OPA Resource  
**Subject:** Suggestion to cool japan's nuclear reactors

Hello,

(b)(6) says that if you use mud or dirt piled on top of the reactor would possibly cool off the system.

Just a thought to this problem.

Regards,  
Kevin

R/4

**From:** Janbergs, Holly  
**To:** (b)(6) Ex. 6  
**Bcc:** Gerke, Laura  
**Subject:** Re: Drone Suggestions  
**Date:** Sunday, March 20, 2011 10:26:00 AM

---

Mr. Burt,

Thank you for sending your ideas on the use of helicopter drones to help combat the situation in Japan. Though remotely-piloted aircraft are already being used to make a difference, we appreciate any suggestions that work toward resolving this ongoing crisis. It's reassuring to see how helpful and dedicated private citizens have been in light of this disaster.

The NRC has been working 24-hours a day to fully staff our response teams and monitor the situation overseas. We also have some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We will be doing everything we can in this difficult time.

Thank you again,  
Bethany

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/5

**From:** Janbergs, Holly  
**To:** (b)(6) Ev. 6  
**Bcc:** Gerke, Laura  
**Subject:** Re: Radiation Exposure Limits  
**Date:** Sunday, March 20, 2011 10:17:00 AM

---

Mr. Millendorf,

The NRC does not set the standard for annual public exposure limits; we merely update our documentation and rulemaking accordingly. The standard is set by the National Council on Radiation Protection (NCRP).

Information on NRC's standards on radiation can be found here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/bio-effects-radiation.html>

I believe the supporting document you are looking for is the NCRP's Report 160, published in 2009.

<http://www.ncrppublications.org/Reports/160>

Thank you,  
Beth

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/6

**From:** Janbergs, Holly  
**To:** (b)(6) E-6  
**Bcc:** Gerke, Laura  
**Subject:** Re: Uranium Energy  
**Date:** Sunday, March 20, 2011 10:19:00 AM

---

Hello,

Nuclear energy is a way of creating heat through the fission process of atoms. The fission process takes place when the nucleus of a heavy atom is split in two when struck by a neutron. The "fissioning" of the nucleus releases two or three new neutrons and energy in the form of heat. The unique properties of uranium and plutonium allow these atoms to more easily fission than other heavy atoms. Those unique properties allow the "fissioning" of uranium or plutonium to release a massive amount of energy.

I hope this answers your question. If you would like to know more about nuclear energy, please visit our public website at <http://www.nrc.gov>

Thank you,  
Beth

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/7

**From:** OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: Suggest providing a link to the INFO NOTICE in your press release  
**Date:** Sunday, March 20, 2011 10:02:47 AM

---

Bethany,  
Do you want this or should I forward to someone else? Val

**From:** Mark King (b)(6) Ex. 6  
**Sent:** Saturday, March 19, 2011 6:22 PM  
**To:** OPA Resource  
**Subject:** Suggest providing a link to the INFO NOTICE in your press release

Suggestion regarding the recent Press Release - why not add a direct link to the Information Notice itself?

<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notices/2011/ML110760432.pdf>

No. 11-051	March 18, 2011
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### **NRC INFORMS U.S. NUCLEAR POWER PLANTS ON JAPAN EARTHQUAKE'S EFFECTS**

The Nuclear Regulatory Commission has issued an Information Notice to all currently operating U.S. nuclear power plants, describing the effects of the March 11 earthquake and tsunami on Japanese nuclear power plants.

The notice provides a brief overview of how the earthquake and tsunami are understood to have disabled several key cooling systems at the Fukushima Daiichi nuclear power station, and also hampered efforts to return those systems to service. The notice is based on the NRC's current understanding of the damage to the reactors and associated spent fuel pools as of Friday, March 18.

The notice reflects the current belief that the combined effects of the March 11 earthquake and tsunami exceeded the Fukushima Daiichi plant's design limits. The notice also recounts the NRC's efforts, post-9/11, to enhance U.S. plants' abilities to cope with severe events, such as the loss of large areas of a site, including safety systems and power supplies.

The NRC expects U.S. nuclear power plants will review the entire notice to determine how it applies to their facilities and consider actions, as appropriate.

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### **NRC INFORMATION NOTICE 2011-05: TOHOKU-TAIHEIYOU-OKI EARTHQUAKE EFFECTS ON JAPANESE NUCLEAR POWER PLANTS**

may be viewed at:

<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notices/2011/ML110760432.pdf>

in2011-05	03/18/2011	Tohoku-Taiheiyou-Oki Earthquake Effects On Japanese Nuclear Power Plants
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R/8

**From:** OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: \*UPDATED\* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on  
**Date:** Sunday, March 20, 2011 9:55:04 AM

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**From:** M.Nalluswami (b)(6) Ex. 6  
**Sent:** Sunday, March 20, 2011 9:48 AM  
**To:** OPA Resource; OPA Resource  
**Subject:** Re: \*UPDATED\* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on

I am an (b)(6). I would like to attend the public meeting on March 21st at 9:00 am ON NRC RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN.

Thanks.

M. (Sami) Nalluswami

(b)(6)

Ex. 6

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

**From:** opa administrators <opa@nrc.gov>

**To:** (b)(6) Ex. 6

**Sent:** Sat, Mar 19, 2011 4:10 pm

**Subject:** \*UPDATED\* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on

R/9

**From:** Janbergs, Holly  
**To:** (b)(6) Ex. 6  
**Bcc:** Gerke, Laura  
**Subject:** Re: Meeting Attendance  
**Date:** Sunday, March 20, 2011 9:57:00 AM

---

Hello,

I received your e-mail about attendance at the Commission Meeting on Monday. The public is welcome to attend this meeting; however, we are not taking RSVPs. Please come to the conference room on Monday. All you will need is a photo ID to gain entrance.

Thank you,  
Beth

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/10

**From:** OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: NRC Provides Protective Action Recommendations Based on U.S. Guidelines  
**Date:** Sunday, March 20, 2011 10:00:10 AM

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**From:** (b)(6) Ex. 6  
**Sent:** Saturday, March 19, 2011 6:56 PM  
**To:** OPA Resource  
**Subject:** Re: NRC Provides Protective Action Recommendations Based on U.S. Guidelines

Your press release referenced above states that:

*"The average American is exposed to approximately 620 millirems, or 0.62 rem, of radiation each year from natural and manmade sources."*

When did this change from the standard of 360 mrem? Please cite a reference.  
MANY texts and training classes will have to be revised if your 620 mrem is now the standard.

What's up?

David Millendorf

(b)(6)

(b)(6)

Ex. 6

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

**From:** opa\_administrators <opa@nrc.gov>  
**To:** dave (b)(6) Ex. 6  
**Sent:** Thu, Mar 17, 2011 7:21 am  
**Subject:** NRC Provides Protective Action Recommendations Based on U.S. Guidelines

R/11

**From:** OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: Using small helicopter drones at Fukushima  
**Date:** Sunday, March 20, 2011 9:46:33 AM

---

**From:** James A. Burt (b)(6) Ex. 6  
**Sent:** Saturday, March 19, 2011 7:29 PM  
**To:** OPA Resource  
**Subject:** FW: Using small helicopter drones at Fukushima

Hi. I've received this response from David Hambling who writes for Wired Magazine. He recommends contacting these companies for the drone tech you'll need for the Fukushima inspections.

James A. Burt

**From:** David Hambling (b)(6) Ex. 6  
**Sent:** Saturday, March 19, 2011 1:14 PM  
**To:** opa.resource@nrc.gov  
**Cc:** (b)(6) Ex. 6  
**Subject:** RE: Using small helicopter drones at Fukushima

There are a lot of them out there, but it's doubtful whether they are well hardened. Some suggestions

CRASAR (first point of contact for any robot emergency, use Airrobot)  
<http://crasar.org/>

Honeywell T-Hawk (military and possibly better hardened than anything else)  
<http://www.thawkmav.com/>

Airrobot  
<http://www.airrobot-us.com/>

Cyberquad (Australian)  
<http://www.cybertechuav.com.au/-Overview,85-.html>

Quadrotto (designed for disaster situations)  
<http://www.dis.uniroma1.it/~multirob/sied/quadrotto/>

GRASP lab (may have some ideas)  
<http://www.grasp.upenn.edu/>

Hope this helps - please let me know what happens with this, would be great to be able to cover the story,,  
David.

**From:** (b)(6) Ex. 6  
**To:** (b)(6) Ex. 6  
**Subject:** Using small helicopter drones at Fukushima  
**Date:** Sat, 19 Mar 2011 12:41:06 -0700

R/12

Hi. We need to verify the cooling pond levels at the Fukushima reactors. I've found three companies so far—

[http://www.microdrones.com/en\\_home.php](http://www.microdrones.com/en_home.php)  
<http://ardrone.parrot.com/parrot-ar-drone/usa/>  
<http://www.draganfly.com/>

Can you think of any others? They need to survive the radiation long enough to verify the cooling levels. Please contact the NRC with your recommendation at

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

James A. Burt

**From:** Janbergs, Holly  
**To:** (b)(6) Ex 6  
**Bcc:** Gerke, Laura  
**Subject:** Re: Letter to Chairman Jaczko  
**Date:** Sunday, March 20, 2011 9:53:00 AM

---

Dr. Zrebiec,

Thank you for sharing your concerns. The NRC is always looking to improve safety and security of U.S. reactors, and we will be analyzing the information that comes out of this incident in Japan to see if there are any lessons we can apply to our own regulations. President Obama has also asked the agency to conduct a comprehensive review of the safety of U.S. nuclear plants, and we will be doing so. However, we do believe that our plants are safe. An explanation of why can be found here:

<http://www.nrc.gov/japan/faq-can-it-happen-here.pdf>

Although the NRC has been involved in radiation monitoring, the efforts have also come from a number of U.S. agencies. The best source for information on radiation monitoring is the Environmental Protection Agency. The EPA monitors levels of radioactivity in milk, drinking water, and precipitation. They have a list of FAQs here:

<http://www.epa.gov/radiation/japan-faqs.html>

That list contains an explanation of how to log into and use RadNet, which is the site for their radiation monitoring database. If you would like to peruse the information there yourself, the direct link to the database is here:

<http://cdx.epa.gov>

For further information on the situation in Japan, and on U.S. power plants, please visit the NRC's public website at [www.nrc.gov](http://www.nrc.gov) and our section on Japan FAQs, including information on applicability to our own reactors, here: <http://www.nrc.gov/japan/japan-info.html>

Thank you,  
Holly

R/13

**From:** Janbergs, Holly  
**To:** Gerke, Laura  
**Subject:** FW: pumpwater  
**Date:** Sunday, March 20, 2011 9:40:00 AM

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**From:** OPA Resource  
**Sent:** Sunday, March 20, 2011 9:39 AM  
**To:** Janbergs, Holly  
**Subject:** FW: pumpwater

**From:** LARRY THOMPSON (b)(6) ] Ev. 6  
**Sent:** Saturday, March 19, 2011 10:31 PM  
**To:** OPA Resource  
**Cc:** larry thompson  
**Subject:** pumpwater

I would suggest you try pumping water into the sewer lines coming from the power plants using a backflow valve to keep water from backing back on you. Make sure you have read plumbing plans, floor plans to make sure water is going into power plants. If all goes well, water will come out of floor drains, water fountains, toilets, showers and wherever water is drained. When you locate a manhole cover close to power plant that is safe, use pressure pumps, install backflow prevention valves, making sure water is going in right place. You will know when you start seeing steam coming out of power plants. Please test this idea first to make sure it will work.

Call me and tell me what you think. Larry Thompson (b)(6) or (b)(6)

R/14

**From:** Gerke, Laura  
**To:** (b)(6) ] F. C.  
**Subject:** Response to your suggestion  
**Date:** Sunday, March 20, 2011 9:46:05 AM

---

Thank you for your suggestion regarding utilization of the sewer lines for providing water access into the plants in Japan. Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

To keep up to date on the latest information regarding the plants, you might want to view our website at <http://www.nrc.gov/japan/faqs-related-to-japan.pdf>.

Thank you again us,

Laura Gerke

R/15

**From:** OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Sunday, March 20, 2011 9:31:49 AM

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

From: NRCWEB Resource  
Sent: Sunday, March 20, 2011 7:00 AM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: Louis Zrebiec, Ph.D. (b)(6) Ex. 6  
Sent: Sunday, March 20, 2011 1:18 AM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Louis Zrebiec, Ph.D. (b)(6) Ex. 6 on Sunday, March 20, 2011 at 01:18:09

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comments: Dear Chairman Jaczko:

The NRC must assure the nation of the safety of our nuclear energy. The nuclear disaster in Japan has raised doubts in the nation on the safety of nuclear energy ("Japan Crisis Could Rekindle U.S. Antinuclear Movement," The New York Times, March 19, 2011). Supervision and accountability are critical to national confidence in our nuclear energy.

I find the simplistic testing for radioactive particles at Berkeley ("For Hardy Californians, Another Frisson of Danger," The New York Times, March 19, 2011) an understatement of the problem. This radioactivity will be in the grains and grass and ground water.. We will eat this radioactivity. Continuous exposure will impact the weaker/older citizens.

We need a rational response to this radioactivity from the NRC.

Enclosed please find a copy of my latest letter to Director General Amano of IAEA.

Thank you.

Louis Zrebiec, Ph.D.  
Zrebiec's Consulting

(b)(6)

(b)(6) Ex. 6

(b)(6)

Dear Director General Amano:

Every nuclear reactor must be simplified with an easy "KILL" switch. Nuclear reactions must be terminated with environments (e.g., Cadmium). Water pools for spent rods can be supplemented with pure Nitrogen atmospheres. Nitrogen purges are used to prevent explosions for in-flight refueling.

R/16

Yes chemical reactions must be denied oxygen for explosions.

Nitrogen containment can minimize chemical reactions.

All nuclear, chemical, and even physical possibilities must be delineated and resolved to prevent a repeat of Japan.

Thank you.

Louis Zrebiec, Ph.D.  
Zrebiec's Consulting

(b)(6)

organization: (b)(6)

address1: (b)(6)

address2:

city: (b)(6)

state: (b)(6)

zip: (b)(6)

country: (b)(6)

phone: (b)(6)

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**From:** OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Sunday, March 20, 2011 9:31:25 AM

---

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

From: NRCWEB Resource  
Sent: Sunday, March 20, 2011 7:01 AM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: concerned (b)(6) Ex. 6  
Sent: Sunday, March 20, 2011 2:19 AM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

concerned (b)(6) Ex. 6 on Sunday, March 20, 2011 at 02:19:22

---

comments: If you are considering to use the sand from the ocean, I would burn a sample first. On the other side of the island there was an oil spill in the 1990's but I think on the reactor side it would be ok, but I would check it. I think when the sediments include brown algae with potassium chlorate then it may clean the air as a side effect.

I believe that when the sand melts it will cool the element and coat it so as to collect the dangerous particals from the radiation. Through the layer the heat will be able to escape further helping in the cooling affect.

I had the thought that the sediment may contain organic sulphur which may be useful when it cools after being heated at such high temperatures.

organization:

address1:

address2:

city:

state: ---

zip:

country: (b)(6)

phone: (b)(6)

---

R/17

**From:** Janbergs, Holly  
**To:** Deb/Bee  
**Bcc:** Gerke, Laura  
**Subject:** RE: Safety of Nuclear Reactors  
**Date:** Sunday, March 20, 2011 9:30:00 AM

---

Ms. Crittenden,

All of the structures, systems, and components that comprise a nuclear power plant are tested to withstand the same seismic concerns as the reactor. For more information on the process, you can look at our NRC fact sheet here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/fs-seismic-issues.html>

We have also recently finished an addendum to our website containing links to relevant information surrounding the situation in Japan. Please feel free to explore it. Hopefully it can answer any further questions you may have:

<http://www.nrc.gov/japan/japan-info.html>

As for the reactors in Japan, I am not an engineer, but I believe Chief Cabinet Secretary Edano indicated that the reactors will not be usable after this incident due to the influx of salt water.

Thank you,  
Holly

---

**From:** Deb/Bee (b)(6) } Ex. 6  
**Sent:** Saturday, March 19, 2011 5:51 AM  
**To:** Janbergs, Holly  
**Subject:** Re: Safety of Nuclear Reactors

Ms. Janbergs,

Thank you for replying to me. I now have some additional concerns:

1. When assessing ability of nuclear reactors to w/stand earthquakes; do they, also, test the water supply feeding it -- like the dams & lakes to withstand earthquakes?
2. How long till the salt in the Japanese reactors start damaging the reactors and what damage will that be?

Sincerely,  
Deb Crittenden

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**From:** "Janbergs, Holly" <Holly.Janbergs@nrc.gov>  
**To:** (b)(6) } Ex. 6  
**Sent:** Fri, March 18, 2011 11:34:38 AM  
**Subject:** Safety of Nuclear Reactors

Ms. Crittenden,

Thank you for sharing your concerns. We have received the letters you referenced. The NRC is always looking to improve safety and security of U.S. reactors, and we will be analyzing the information that comes out of this incident in Japan to see if there are any

R/18

lessons we can apply to our own regulations. President Obama has also directed the agency to conduct a comprehensive review of the safety of U.S. nuclear plants, and we will be doing so.

U.S. power plants are built to withstand environmental hazards, including earthquakes. Even those plants located outside of areas with extensive seismic activity are designed for safety in the event of a natural disaster. The NRC also requires robust safety and security systems at nuclear plants to combat potential terrorist threats. Facilities are required to perform in regular exercises that are designed to test the integrity of a plant's defenses and response capabilities. You can read more about the types of emergency preparedness we require at the following links:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/fs-emerg-plan-prep-nuc-power.html>

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/force-on-force-fs.html>

Applications for new nuclear reactors such as North Anna, Unit 3 undergo a lengthy process to determine the feasibility and safety of the site and proposed design. Each goes through an extended period of review, both from a safety and an environmental standpoint. The particular application you referenced is still in early stages, and there will be plenty of opportunities for public comment as the NRC researches the proposed reactor. There is more information available here, including a schedule:

<http://www.nrc.gov/reactors/new-reactors/col/north-anna.html>

I hope this answers your questions.

Thank you,  
Holly

**From:** Janbergs, Holly  
**To:** Gerke, Laura  
**Subject:** FW: REPLY: Reactor Meltdown as in Japan  
**Date:** Sunday, March 20, 2011 9:18:00 AM

---

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

From: Bonaccorso, Amy  
Sent: Friday, March 18, 2011 10:39 AM  
To: (b)(6) Ex. 6  
Subject: REPLY: Reactor Meltdown as in Japan

Good morning:

I am sorry that I don't have a technical answer to your question, but we understand that people are very concerned about what is going on in Japan and have a lot of questions and even suggestions.

Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

Thank you,

Amy

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

From: Miles P{elton (b)(6) Ex. 6  
Sent: Thursday, March 17, 2011 9:07 PM  
To: OPA Resource  
Subject: Reactor Meltdown as in Japan

Below is the result of your feedback form. It was submitted by

Miles P{elton (b)(6) Ex. 6 on Thursday, March 17, 2011 at 21:07:26

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comments: Is there a reason why extinguishing material such as Carbon Dioxide or Halon would not work better than water to reduce the heat of a nuclear reactor meltdown such as in Japan?

organization: (b)(6)

address1: (b)(6)

address2:

city: (b)(6)

state: (b)(6)

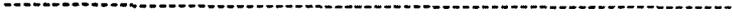
zip: (b)(6)

country: (b)(6)

Ex. 6

R/19

(b)(6)



**From:** Janbergs, Holly  
**To:** Gerke, Laura  
**Subject:** FW: REPLY: Wish to volunteer to assist in Japan if needed  
**Date:** Sunday, March 20, 2011 9:18:00 AM

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 18, 2011 11:22 AM  
**To:** (b)(6) E.V.G.  
**Subject:** REPLY: Wish to volunteer to assist in Japan if needed

Dear Mr. Moffatt:

We understand how upsetting the situation in Japan is for everyone. It is really reassuring to see that so many people want to help. However, we are not taking volunteers.

Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

Thank you,

Amy

---

**From:** OPA Resource  
**Sent:** Friday, March 18, 2011 9:20 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: Wish to volunteer to assist in Japan if needed

---

**From:** Graeme Moffatt [mailto:Graeme.Moffatt@defcredit.com.au]  
**Sent:** Friday, March 18, 2011 1:40 AM  
**To:** OPA Resource  
**Subject:** Wish to volunteer to assist in Japan if needed

Dear Sir/Madam,

I have been watching the events in Japan as they have unfolded, and fully understand the difficulties and challenges being faced.

I understand that as the radiation levels increase, workers will only be able to work in and around the damaged reactors for increasingly shorter periods. I can understand that there may be significant difficulties in obtaining people voluntarily to carry out the essential works.

I would like to volunteer to assist in any capacity that I can. I have an excellent mechanical aptitude, served in the voluntary country fire authority, am in good health, can drive rigid trucks, tractors etc and willing to serve.

R/20

While I have sent this from my work email address, you can contact me via my private email address (b)(6) as it is currently going on 5 o'clock Friday here in

(b)(6)

Ex. 6

Yours faithfully,

Graeme Moffatt

**Graeme Moffatt**

Deed Manager

Defence Force Credit Union Limited

T 03 8624 5858

F 03 9614 6670

(b)(6)

Ex. 6

E [graeme.moffatt@defcredit.com.au](mailto:graeme.moffatt@defcredit.com.au)



Please, consider the environment before printing this email

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This email (including all attachments) is intended solely for the named addressee. This email also contains information, which may be confidential and/or subject to copyright. Please do not copy or forward this email to anyone unless you have the expressed permission of the sender. If you have received this email in error, please let Defcredit know by return email and then delete it from your system and destroy any copies. Defcredit does not warrant or guarantee that this email (and attachments) are free from errors, viruses or interference, or have been received in the form sent. The recipient assumes all responsibility for any consequences resulting from all uses made of this email.

**From:** Janbergs, Holly  
**To:** Gerke, Laura  
**Subject:** FW: REPLY: Response from "Contact Us About Employment"  
**Date:** Sunday, March 20, 2011 9:16:00 AM

---

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

From: Bonaccorso, Amy  
Sent: Friday, March 18, 2011 1:43 PM  
To: (b)(6)  
Subject: REPLY: Response from "Contact Us About Employment"

Dear Ms. Bloom:

We appreciate your willingness to volunteer your services in this time of need for Japan. Unfortunately, we are not accepting volunteers at this time. I suggest that you contact your local Red Cross or other relief organization and offer your services noting your experience. Thank you for your offer.

Amy

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

From: Rose Giehl Bloom (b)(6) Ex. 6  
Sent: Tuesday, March 15, 2011 7:12 PM  
To: OHRComments Resource  
Subject: Response from "Contact Us About Employment"

Below is the result of your feedback form. It was submitted by

Rose Giehl Bloom (b)(6) Ex. 6 on Tuesday, March 15, 2011 at 19:11:37

---

comments: Are you (or they) looking for volunteers to work in Japan?  
Rose Giehl Bloom

organization: self

address1: (b)(6)  
address2:  
city: (b)(6)  
state: (b)(6)  
zip: (b)(6)  
country: (b)(6)  
phone: (b)(6)

Ex. 6

R/21

**From:** Janbergs, Holly  
**To:** Gerke, Laura  
**Subject:** FW: REPLY: traveling opinion(Japan safety)  
**Date:** Sunday, March 20, 2011 9:17:00 AM

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 18, 2011 1:16 PM  
**To:** (b)(6) Ex. 6  
**Subject:** REPLY: traveling opinion(Japan safety)

Hello Mr. Brown:

Yes, I can understand your concern.

Any changes to travel plans are a personal decision. Please check with your airlines for travel restrictions. You may also call the State Department hotline for American travelers: 1-888-407-4747.

Given that your trip is not until December, I don't know how helpful current information will be as things are constantly being updated. But – I hope the above information helps you make an informed decision.

Thank you,

Amy

**From:** Thomas Brown (b)(6) Ex. 6  
**Sent:** Friday, March 18, 2011 12:11 PM  
**To:** OPA Resource  
**Subject:** traveling opinion(Japan safety)

(b)(6) Should I cancel my plans, due to this radiation issue? Or is it too early to give advice or form an opinion?

Thanks,  
Thomas Brown

(b)(6) Ex. 6

R/22

**From:** Janbergs, Holly  
**To:** Gerke, Laura  
**Subject:** FW: REPLY: Iodine for fallout  
**Date:** Sunday, March 20, 2011 9:17:00 AM

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 18, 2011 11:28 AM  
**To:** (b)(6) Ex. 6  
**Cc:** Deavers, Ron; Janbergs, Holly  
**Subject:** REPLY: Iodine for fallout

**Hello Dr. Jassenfratz:**

The NRC continues to monitor information regarding wind patterns near the Japanese nuclear power plants. Nevertheless, given the distance between Japan and Hawaii, we are not expected to experience any harmful levels of radioactivity. The NRC does not believe that protective measures are necessary in the U.S.

Otherwise, we are sending health related questions to the CDC:

**1-800-CDC-INFO**

**Thank you,**

**Amy**

---

**From:** Jay Hassenfratz (b)(6) Ex. 6  
**Sent:** Wednesday, March 16, 2011 4:23 PM  
**To:** OPA Resource  
**Subject:** Iodine for fallout

I am an (b)(6) who is getting questions from (b)(6) The question is weather they need iodine for protection. What are the recommendations?

Jay Hassenfratz

R/23

**From:** Janbergs, Holly  
**To:** (b)(6) Ex. 6  
**Subject:** Suggestions  
**Date:** Sunday, March 20, 2011 8:31:00 AM

---

Robert,

Thank you for sending your ideas on water delivery options for combating the situation in Japan. We appreciate suggestions that work toward resolving this ongoing crisis; it's reassuring to see how helpful and dedicated private citizens have been in light of this disaster.

The NRC has been working 24-hours a day to fully staff our response teams and monitor the situation overseas. We also have some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We will be doing everything we can in this difficult time.

Thank you again,  
Beth

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/24

**From:** Janbergs, Holly  
**To:** (b)(6) E.V. 6  
**Subject:** Suggestions  
**Date:** Sunday, March 20, 2011 8:30:00 AM

---

Mr. Adametz,

Thank you for sending your ideas on the use of dry ice and coolant to combat the situation in Japan. We appreciate suggestions that work toward resolving this ongoing crisis; it's reassuring to see how helpful and dedicated private citizens have been in light of this disaster.

The NRC has been working 24-hours a day to fully staff our response teams and monitor the situation overseas. We also have some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We will be doing everything we can in this difficult time.

Thank you again,  
Beth

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/25

**From:** Rex Van Aken  
**To:** Tobin, Jennifer  
**Subject:** Re: JAPAN SUPPORT VOLUNTEER  
**Date:** Sunday, March 20, 2011 6:00:34 PM

---

Ms. Tobin,

Would my service help support inspection of our 104 USA plants in operation? Thank you for consideration to support you department.

Mahalo,  
Rex Van Aken

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

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Sent:** Friday, March 18, 2011 10:39 AM  
**Subject:** RE: JAPAN SUPPORT VOLUNTEER

Dear Mr. Van Aken,  
I appreciate your willingness to volunteer your services in this time of need for Japan. Unfortunately, we are not accepting volunteers at this time. I suggest that you contact your local Red Cross or other relief organization and offer your services noting your experience working with radiation. With your knowledge and skill set you would be quite an asset in the cleanup and remediation of the area surrounding the Fukushima plant.  
Thank you for your offer.

-Jenny

-----  
**From:** Rex Van Aken (b)(6)  
**Sent:** Tuesday, March 15, 2011 11:35 PM  
**To:** OHRComments Resource  
**Subject:** JAPAN SUPPORT VOLUNTEER

NRC,  
I would like to volunteer my services to help Japan in their time of Nuclear Reactor problems.

(b)(6)

(b)(6)

(b)(6)

A response to this E-mail is requested.

R/26

Contact me at:

(b)(6) *ex 6*

or

Rex Van Aken

(b)(6) *ex 6*

**Shannon, Valerie**

---

**From:** OPA Resource  
**Sent:** Sunday, March 20, 2011 9:44 AM  
**To:** (b)(6)  
**Subject:** RE: Japan reactors

We appreciate the suggestions of folks with ideas to resolve the situation in Japan. Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.  
Thank You

---

**From:** (b)(6) (b)(6)  
**Sent:** Saturday, March 19, 2011 8:27 PM  
**To:** OPA Resource  
**Subject:** Japan reactors

(b)(6) had an idea to cool down the reactors. Use 20 buckets the size of a VW bug full of dry ice to surround the core or even use liquid nitrogen. Thank you

R/27

**Deavers, Ron**

---

**From:** Ridge, Christianne  
**Sent:** Saturday, March 19, 2011 4:23 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RESPONSE to FW: Japan exports

Responded with text from Amy's new taking points re: FDA, USPS, UBP, and Coast Guard Cooperation to screen imports, airplanes, and marine vessels. Included link to CBP statement at [http://www.cbp.gov/xp/cgov/newsroom/news\\_releases/national/03172011\\_6.xml](http://www.cbp.gov/xp/cgov/newsroom/news_releases/national/03172011_6.xml)

**From:** OPA Resource  
**Sent:** Saturday, March 19, 2011 9:50 AM  
**To:** Ridge, Christianne  
**Subject:** FW: Japan exports

Ivonne L. Couret  
Public Affairs Officer  
Office of Public Affairs  
Media Desk  
[opa.resource@nrc.gov](mailto:opa.resource@nrc.gov)  
301-415-8200

Visit our online photo gallery. Incorporate graphics and photographs to tell your story!  
<http://www.nrc.gov/reading-rm/photo-gallery/>

2010-2011 Information Digest - Where you can find NRC Facts at a Glance  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/>

**From:** (b)(6)  
**Sent:** Friday, March 18, 2011 10:30 PM  
**To:** OPA Resource  
**Subject:** Japan exports

Question :  
JAPAN - Exports to the US and abroad, will EVERYTHING be tested for radiation prior to export?... How many years should we be concerned with "Made in Japan" or surrounding areas that will be contaminated with the radiation water and atmosphere?

-----Original Message-----  
**From:** USA.gov1@mail.fedinfo.gov  
**To:** (b)(6)  
**Sent:** Fri, Mar 18, 2011 3:50 pm  
**Subject:** RE: USA.gov Inquiry [T20110318001M]

[FGE8000] [FGE999]

Thank you for contacting USA.gov.

We understand you would like information regarding radiation exposure and containments in regards to Japan's products for exporting.

**We believe your inquiry would be best addressed by contacting the United States Nuclear Regulatory Commission (NRC).**

You can **contact the NRC** by phone or mail at:

Phone: 1.800.368.5642 or 1.301.415.7000  
TTD: 1.301.415.5575  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

For general questions related to the Japanese reactor events please see the NRC's latest press releases at [www.nrc.gov](http://www.nrc.gov) or email [opa.resource@nrc.gov](mailto:opa.resource@nrc.gov).

We hope you find this information helpful.

Regards,  
USA.gov Citizen Response Team

We cannot accept replies at this e-mail address. If you have further questions, please send us a message through our web form at:

<http://www.usa.gov/questions/>

You can also call our National Contact Center at 1.800.FED.INFO (1.800.333.4636) from the USA and Canada or 1.202.208.1576 from elsewhere. We are open Monday through Friday from 8 a.m. to 8 p.m., Washington, D.C., time. We would like your feedback on our performance. You can let us know what you think at the link below.

<http://www.info.gov/NCCsurvey.htm>

Follow our blog at:  
<http://www.GovGab.gov/>

Become a Facebook fan at:  
<http://www.facebook.com/USAgov/>

Follow us on Twitter at:  
<http://twitter.com/USAgov/>

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-----  
Sender : (b)(6)  
Tracking Number : T20110318001M21144675  
Pool : USA.gov  
Sent to : [USA.gov@mail.fedinfo.gov](mailto:USA.gov@mail.fedinfo.gov)  
Date : 3/18/2011 2:27 AM  
---

ZIP Code: (b)(6)

[FORMGEN]

# Comanche Peak Nuclear Facility in Central Texas

## Issue

Two nuclear reactors about 70 miles southwest of Dallas. There is a prevailing southerly breeze in Dallas. The DFW metro area has over 6.3 million residents.

## Risk Factors

- The facility is owned by Energy Futures Holdings Corporation (EFH) and operated by a subsidiary, Luminant. Several of this company's coal fired plants went offline during the freezes of 2011 resulting in blackouts and/or rolling blackouts for much of Texas. The plants were not properly winterized per EFH executives.<sup>[1]</sup>
- EFH is financially distressed. It has \$36 billion in junk debt (rated below BB) it cannot service and is allegedly in default on \$23.9 billion of the debt.<sup>[1][2]</sup>
- The reactors sit over the Barnett Shale which is currently enduring extensive hydraulic fracturing, a process in which a mixture of sand, water and up to 100 chemicals is injected far below the surface under pressure strong enough to fracture the formation and release, in this case, natural gas.
- Fracturing is not regulated by the state or federal government. Disclosure of the chemicals used is not required.
- Earthquakes are now regularly reported in areas of the Barnett Shale near the facility.<sup>[3][4]</sup> The area had no tremors for at least 140 years.<sup>[5]</sup>
- The cooling source, the fairly small Squaw Creek Reservoir (150,000 acre feet)<sup>[6]</sup> may not contain enough water to cool the rods and spent rods if the plant is compromised, especially in a drought.

## The Future

On September 19, 2008, Luminant filed an application with the NRC for two new reactors at the site.

## Conclusion and Need for Investigation

Production of electricity by nuclear facilities has inherent risks under ideal conditions. The circumstances surrounding EFH, including its finances and poor performance during the winter of 2011, should cause concern for residents. Add in the fracturing and ground water contamination and residents of the Dallas-Fort Worth area have reason to demand an independent investigation to answer the questions below.

Can a company that cannot even winterize coal fired power plants be trusted to safely operate a nuclear facility? Can it be trusted to expand the plant to twice its current size? Will the earthquakes in the area affect the plant? Considering the catastrophic consequences of failure, are there enough redundancies and a fail-safe system to prevent disasters under any remotely possible scenario?

1. ^ Dallas Morning News, March 6 and 9, 2011 and [http://www.alacrastore.com/research/moodys-global-credit-research-Energy\\_Future\\_Holdings\\_Corp-PBC\\_126914](http://www.alacrastore.com/research/moodys-global-credit-research-Energy_Future_Holdings_Corp-PBC_126914).
2. ^ <http://www.businessweek.com/news/2011-02-28/energy-future-holdings-cds-rises-before-lender-call.html2>.
3. ^ [http://blog.nola.com/tpmoney/2009/07/earthquakes\\_in\\_texas\\_get\\_the\\_a.html](http://blog.nola.com/tpmoney/2009/07/earthquakes_in_texas_get_the_a.html)
4. ^ <http://txsharon.blogspot.com/2009/06/hydraulic-fracturing-and-barnett-shale.html>
5. ^ Associated Press, June 12, 2009.
6. ^ [http://www.twdb.state.tx.us/hydro\\_survey/squaw\\_crk/SquawCreekRPT.pdf](http://www.twdb.state.tx.us/hydro_survey/squaw_crk/SquawCreekRPT.pdf)

March 20, 2011

Bill Wilson

(b)(6)

R/29

**Shannon, Valerie**

---

**From:** OPA Resource  
**Sent:** Sunday, March 20, 2011 9:31 AM  
**To:** Janbergs, Holly  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** NRCWEB Resource  
**Sent:** Sunday, March 20, 2011 7:01 AM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** concerned [(b)(6)] Ex 6  
**Sent:** Sunday, March 20, 2011 2:19 AM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

concerned [(b)(6)]<sup>6</sup> on Sunday, March 20, 2011 at 02:19:22

-----

comments: If you are considering to use the sand from the ocean, I would burn a sample first. On the other side of the island there was an oil spill in the 1990's but I think on the reactor side it would be ok, but I would check it. I think when the sediments include brown algae with potassium chlorate then it may clean the air as a side effect. I believe that when the sand melts it will cool the element and coat it so as to collect the dangerous particals from the radiation. Through the layer the heat will be able to escape further helping in the cooling affect. I had the thought that the sediment may contain organic sulhur which may be useful when it cools after being heated at such high tempatures.

organization:

address1:

address2:

city:

state: ---

zip:

country: [(b)(6)]

phone: [(b)(6)] Ex 6

-----

R/30

**Shannon, Valerie**

---

**From:** OPA Resource  
**Sent:** Sunday, March 20, 2011 9:32 AM  
**To:** Janbergs, Holly  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** NRCWEB Resource  
**Sent:** Sunday, March 20, 2011 7:00 AM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** Louis Zrebiec, Ph.D. ((b)(6)) Ex6  
**Sent:** Sunday, March 20, 2011 1:18 AM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Louis Zrebiec, Ph.D. ((b)(6)) Ex6 on Sunday, March 20, 2011 at 01:18:09  
-----

comments: Dear Chairman Jaczko:

The NRC must assure the nation of the safety of our nuclear energy. The nuclear disaster in Japan has raised doubts in the nation on the safety of nuclear energy ("Japan Crisis Could Rekindle U.S. Antinuclear Movement," The New York Times, March 19, 2011). Supervision and accountability are critical to national confidence in our nuclear energy.

I find the simplistic testing for radioactive particles at Berkeley ("For Hardy Californians, Another Frisson of Danger," The New York Times, March 19, 2011) an understatement of the problem. This radioactivity will be in the grains and grass and ground water.. We will eat this radioactivity. Continuous exposure will impact the weaker/older citizens.

We need a rational response to this radioactivity from the NRC.

Enclosed please find a copy of my latest letter to Director General Amano of IAEA.

Thank you.

Louis Zrebiec, Ph.D.  
Zrebiec's Consulting

((b)(6))  
6  
6

R/21

Dear Director General Amano:

Every nuclear reactor must be simplified with an easy "KILL" switch. Nuclear reactions must be terminated with environments (e.g., Cadmium). Water pools for spent rods can be supplemented with pure Nitrogen atmospheres. Nitrogen purges are used to prevent explosions for in-flight refueling. Yes chemical reactions must be denied oxygen for explosions.

Nitrogen containment can minimize chemical reactions.

All nuclear, chemical, and even physical possibilities must be delineated and resolved to prevent a repeat of Japan.

Thank you.

Louis Zrebiec, Ph.D.  
Zrebiec's Consulting

(b)(6)

organization: (b)(6)

address1: (b)(6)

address2:

city: (b)(6)

state: (b)(6)

zip: (b)(6)

country: (b)(6)

phone: (b)(6)

-----

**Shannon, Valerie**

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**From:** OPA Resource  
**Sent:** Sunday, March 20, 2011 9:47 AM  
**To:** Janbergs, Holly  
**Subject:** FW: Using small helicopter drones at Fukushima

---

**From:** James A. Burt [(b)(6)] 16  
**Sent:** Saturday, March 19, 2011 7:29 PM  
**To:** OPA Resource  
**Subject:** FW: Using small helicopter drones at Fukushima

Hi. I've received this response from David Hambling who writes for Wired Magazine. He recommends contacting these companies for the drone tech you'll need for the Fukushima inspections.

James A. Burt

---

**From:** David Hambling [(b)(6)] 16  
**Sent:** Saturday, March 19, 2011 1:14 PM  
**To:** opa.resource@nrc.gov  
**Cc:** [(b)(6)] 6  
**Subject:** RE: Using small helicopter drones at Fukushima

There are a lot of them out there, but it's doubtful whether they are well hardened. Some suggestions

CRASAR (first point of contact for any robot emergency, use Airrobot)  
<http://crasar.org/>

Honeywell T-Hawk (military and possibly better hardened than anything else)  
<http://www.thawkmav.com/>

Airrobot  
<http://www.airrobot-us.com/>

Cyberquad (Australian)  
<http://www.cybertechuav.com.au/-Overview,85-.html>

Quadrotto (designed for disaster situations)  
<http://www.dis.uniroma1.it/~multirob/sied/quadrotto/>

GRASP lab (may have some ideas)  
<http://www.grasp.upenn.edu/>

Hope this helps - please let me know what happens with this, would be great to be able to cover the story,,  
David.

---

**From:** [(b)(6)] 16  
**To:** [(b)(6)] 6 Ex 6

R/32

Subject: Using small helicopter drones at Fukushima  
Date: Sat, 19 Mar 2011 12:41:06 -0700

Hi. We need to verify the cooling pond levels at the Fukushima reactors. I've found three companies so far—

[http://www.microdrones.com/en\\_home.php](http://www.microdrones.com/en_home.php)  
<http://ardrone.parrot.com/parrot-ar-drone/usa/>  
<http://www.draganfly.com/>

Can you think of any others? They need to survive the radiation long enough to verify the cooling levels. Please contact the NRC with your recommendation at

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

James A. Burt

**Shannon, Valerie**

**From:** OPA Resource  
**Sent:** Sunday, March 20, 2011 10:03 AM  
**To:** Janbergs, Holly  
**Subject:** FW: Suggest providing a link to the INFO NOTICE in your press release

Bethany,  
Do you want this or should I forward to someone else? Val

**From:** Mark King <sup>(b)(6)</sup>   Ex 6  
**Sent:** Saturday, March 19, 2011 6:22 PM  
**To:** OPA Resource  
**Subject:** Suggest providing a link to the INFO NOTICE in your press release

Suggestion regarding the recent Press Release - why not add a direct link to the Information Notice itself?:  
<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notices/2011/ML110760432.pdf>

No. 11-051	March 18, 2011
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**NRC INFORMS U.S. NUCLEAR POWER PLANTS ON JAPAN EARTHQUAKE'S EFFECTS**

The Nuclear Regulatory Commission has issued an Information Notice to all currently operating U.S. nuclear power plants, describing the effects of the March 11 earthquake and tsunami on Japanese nuclear power plants. The notice provides a brief overview of how the earthquake and tsunami are understood to have disabled several key cooling systems at the Fukushima Daiichi nuclear power station, and also hampered efforts to return those systems to service. The notice is based on the NRC's current understanding of the damage to the reactors and associated spent fuel pools as of Friday, March 18.

The notice reflects the current belief that the combined effects of the March 11 earthquake and tsunami exceeded the Fukushima Daiichi plant's design limits. The notice also recounts the NRC's efforts, post-9/11, to enhance U.S. plants' abilities to cope with severe events, such as the loss of large areas of a site, including safety systems and power supplies.

The NRC expects U.S. nuclear power plants will review the entire notice to determine how it applies to their facilities and consider actions, as appropriate.

**NRC INFORMATION NOTICE 2011-05: TOHOKU-TAIHEIYOU-OKI EARTHQUAKE EFFECTS ON JAPANESE NUCLEAR POWER PLANTS**

may be viewed at:  
<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notices/2011/ML110760432.pdf>

in2011-05	03/18/2011	Tohoku-Taiheiyou-Oki Earthquake Effects On Japanese Nuclear Power Plants
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R/33

**Shannon, Valerie**

---

**From:** OPA Resource  
**Sent:** Monday, March 21, 2011 7:31 AM  
**To:** 'Ivonne Couret'  
**Subject:** FW: RSVP to NRC meeting monday

---

**From:** Wald, Matthew [<mailto:mattwald@nytimes.com>]  
**Sent:** Sunday, March 20, 2011 5:41 PM  
**To:** OPA Resource  
**Subject:** RSVP to NRC meeting monday

Please save me a seat. Thank you.  
--- Matt Wald

Matthew L. Wald  
The New York Times  
Washington Bureau  
1627 Eye Street NW  
Washington, DC 20006

202-862-0363

(cell: (b)(6) Ex6  
fax: 202-318-0057

<http://www.nytimes.com/info/nuclear-energy/>

twitter: mattwaldnyt

---

**From:** opa administrators [<mailto:opa@nrc.gov>]  
**Sent:** Saturday, March 19, 2011 4:11 PM  
**To:** Wald, Matthew  
**Subject:** \*UPDATED\* Media Advisory: Nuclear Regulatory Commission to Hold Public Meeting on

R/34

**From:** [Tobin, Jennifer](#)  
**To:** [Bonaccorso, Amy](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** RE: US Boiling Water Reactors with Mark 1 Containments  
**Date:** Monday, March 21, 2011 6:55:00 PM

---

This one is way too technical for me too! This would require some serious research and information gathering....Perhaps pass it back to Holly or Dave?

Sorry I couldn't help on this one!

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

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 10:20 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: US Boiling Water Reactors with Mark 1 Containments

Way too technical for me to even attempt to respond to.

We are seriously thankful for you Jenny!

---

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Monday, March 21, 2011 9:06 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: US Boiling Water Reactors with Mark 1 Containments

---

**From:** Pam Shallenberger [mailto:[\(b\)\(6\)](#)] *ex 6*  
**Sent:** Sunday, March 20, 2011 9:49 PM  
**To:** OPA Resource  
**Subject:** US Boiling Water Reactors with Mark 1 Containments

Question:

Do all US Boiling Water Reactors with Mark 1 Containments have hard pipe vents from both the Suppression Pool, and Primary Containments to the Elevated Release Point so the Reactor Building will not accumulate hydrogen during venting .

R/35

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Bcc:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RE: Nuclear waste  
**Date:** Monday, March 21, 2011 6:53:00 PM

---

Dear Ms. Prater,  
If waste material is stored underground, it is at least doubly encapsulated in specially designed containers that have met extensive safety requirements. The probability of any leakage outside of the container(s) is minute. Depending on the depth of the water table, soil and geographical composition (among other factors), there is potential for some radioactive material to get to the water table if the containment of the material is somehow breached. I hope that answers your question.

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

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 10:02 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: Nuclear waste

Groundwater question

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**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Monday, March 21, 2011 9:04 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: Nuclear waste

---

**From:** Kerry [mailto:(b)(6)] Jex 6  
**Sent:** Sunday, March 20, 2011 6:42 PM  
**To:** OPA Resource  
**Subject:** Nuclear waste

Dear Sir(s),  
When the waste material is stored underground, doesn't any of the radioactive waste leech into the ground, and if it does, can it contaminate the water table?

Thank you

(b)(6)

R/36

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Subject:** FW: So, what happens to the nuks now in Japan if there is another tsunami due to a large off shore aftershock? Maybe ...  
**Date:** Monday, March 21, 2011 4:35:21 PM

---

**From:** J K [mailto:[\(b\)\(6\)](#)] *ex 6*  
**Sent:** Monday, March 21, 2011 4:00 AM  
**To:** NRC Allegation  
**Subject:** So, what happens to the nuks now in Japan if there is another tsunami due to a large off shore aftershock? Maybe ...

So, what happens to the nuks now in Japan if there is another tsunami due to a large off shore aftershock?

Maybe we should be advising them to have a flood protected generator and switchgear?

J

R/37

**From:** Antonie Hansen  
**To:** Tobin, Jennifer  
**Subject:** Re: San Ofrio Power plant ..tsunami  
**Date:** Monday, March 21, 2011 4:09:06 PM

---

Dear Jenny,

Yes, indeed, you did answer all my questions, but now there is an unrelated one.

My (b)(6) Her (b)(6)  
(b)(6) Let's face it, it is an unusual name. She is now (b)(6)  
(b)(6) also a (b)(6) .....funny !!!

OEur exchange has been illuminating and ended on a funny note.

Thank you Jenny,

Tony

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

From: "Tobin, Jennifer" <Jennifer.Tobin@nrc.gov>  
To: Antonie Hansen (b)(6)  
Sent: Mon, March 21, 2011 2:00:23 PM  
Subject: RE: San Ofrio Power plant ..tsunami

Dear Tony,

Thank you for your follow-up email. The other west coast plants have similar protection methods. All of the U.S. plants are required to have at least one backup generator for each reactor unit. In fact, most licensees have more than one backup for each unit since an outage means a massive loss of profit for them. I hope that all of your questions have been answered.

-Jenny

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

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

From: Antonie Hansen (b)(6) ex6  
Sent: Friday, March 18, 2011 11:32 PM  
To: Tobin, Jennifer  
Subject: Re: San Ofrio Power plant ..tsunami

Dear Jennifer,

Thank you for your quick response.

What beautiful command you have of the English language and the bureaucratic phrasing in your response. I hope that P.G.&E as operators of the San Onofre nuclear plant are not as suspect in their public utterances as their counterpart

in Japan. I fully appreciate your concerns for the nuclear plant disaster in Japan and the lessons we may learn from it. A friend of mine pointed out that there is a 25' wall at San Onofre. I must have seen an older picture of the plant. Now the question has arisen if a 25' wall is sufficient to protect the plant from a much higher tsunami effect. I am sure you are on top of it. Are the

other westcoast nuclear plants protected in the same manner ? Do we have standby

R/38

generators and a ready electric source ? I am convinced that you may have numerous more questions already thank can come up with.  
Thank you again, your reply has been illuminating.  
The best of luck to you. I sincerely hope we don't have an earthquake on the westcoast tomorrow as some have predicted. Keeping my fingers crossed.

Tony Hansen

.----- Original Message -----

From: "Tobin, Jennifer" <Jennifer.Tobin@nrc.gov>

To: (b)(6)

(b)(6)

Sent: Fri, March 18, 2011 11:00:28 AM

Subject: RE: San Ofrio Power plant ..tsunami

Dear Mr. Hansen,

Thank you for your inquiry. I understand your concern about the San Onofre plant. At this time, our agency is focused on assisting our counterparts in Japan. We intend to use the information gained from this emergency to better risk-inform our licensing decisions related to plants that have a potential to be affected.

However, I can assure you that before a reactor begins operation, extensive safety and security reviews are completed by our agency. Additionally, the NRC completes an environmental assessment of potential impacts. Within the last few

years, the NRC have worked bilaterally with the Japanese to understand the potential design modifications for seismic activity and other natural disasters. Since that time, the NRC has worked with our licensees (the plant operators) to provide some back-fit measures to enhance the physical infrastructure. I hope that answers your question.

-Jenny

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

From: Antonie Hansen [mailto:(b)(6)]

Sent: Thursday, March 17, 2011 10:51 PM

To: OPA Resource

Subject: San Ofrio Power plant ..tsunami

Dear Sirs/Madam,

There does not appear to be a protective wall from a tsunami effect for the San Onofri Nuclear Power Plant .

I saw a photograph of the beach and the power plant and there does not appear to

be any protection from a 100 foot tsunami.

Is your agency planning to do something about this very obvious exposure to a tsunami ?

I would appreciate your comments.

Tony Hansen

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: Differences between Japanese and American reactors  
**Date:** Monday, March 21, 2011 4:08:52 PM

---

**From:** Louise Ramunno-Johnson [mailto:[\(b\)\(6\)](#)] *ex 6*  
**Sent:** Friday, March 18, 2011 10:08 PM  
**To:** NRC Allegation  
**Subject:** Differences between Japanese and American reactors

I think that nuclear energy is at risk of a quick death again in the U. S. unless the NCR can convince Americans that the type of nuclear accident that has happened in Japan cannot happen here, and mere assurances is not enough. Actual differences needed to be explained.

The crucial problem in Japan was not having cooling water in the reactor pools, and mere assurances about backup power for pumps is not enough, because the plants in Japan had double power backup, but the tsunami damaged the diesel generators and took out the alternate power lines. There were apparently no maintained battery backup power supplies or even a plan to restart the reactor operations to generate enough electricity to maintain cooling.

In Japan, the spent rods were stored on top of the buildings, which we don't do, but we share the common problem of not having a disposal location for such spent rods other than on site, which increases the risk when a local disaster strikes because of their ability to catch on fire without water cooling.

They stored reserve water below the reactor pool in a torus of some kind, which made pumps the only way to deliver water to the pools. My youngest son pointed out if they had stored water above it could have been gravity fed when power failed, so I can only hope we have water towers to provide sufficient water pressure and supply.

On what NRC says and does rest the future of nuclear power in the United States and perhaps the world.

Walter L. Johnson

[\(b\)\(6\)](#)

R/39

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: Question: I have a question about the safety of nuclear reactors in California.  
**Date:** Monday, March 21, 2011 4:08:21 PM

---

**From:** Man Kan [mailto:(b)(6)] *exp*  
**Sent:** Friday, March 18, 2011 5:02 PM  
**To:** NRC Allegation  
**Subject:** Question: I have a question about the safety of nuclear reactors in California.

Dear Sir/Madam:

I am a (b)(6) resident. I have a question about the safety of nuclear reactors in California. The four nuclear reactors in central and south California (CA) are built near Pacific Ocean. If San Francisco or other place in CA has an earthquake that causes tsunami, will tsunami damage these reactors?

Please look at the following websites for these nuclear reactors:

<http://www.nrc.gov/reactors/operating/map-power-reactors.html>

<http://www.nrc.gov/info-finder/reactor/>

<http://www.nrc.gov/info-finder/reactor/diab1.html>

<http://www.nrc.gov/info-finder/reactor/diab2.html>

<http://www.nrc.gov/info-finder/reactor/sano2.html>

<http://www.nrc.gov/info-finder/reactor/sano3.html>

Thanks,

Man Kan

(b)(6)

R/40

**From:** Bonaccorso, Amy  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: Nuclear Safety Accident Preparations and Response Training May be Inadequate  
**Date:** Monday, March 21, 2011 4:06:56 PM

---

**From:** VRay (b)(6)  
**Sent:** Monday, March 21, 2011 1:57 PM  
**To:** NRC Allegation  
**Subject:** Nuclear Safety Accident Preparations and Response Training May be Inadequate

US nuclear generating stations hold routine training drills, etc. for the worst case postulated credible single failure event. Based upon multiple units at the same site failing in Japan, it is no longer credible that an analyzed accident only affects one unit at a multiple unit site. Shouldn't it now be a requirement for multiple unit sites to analyze and set up the emergency response facilities to handle all units at a site simultaneously? Up to now it has been considered an unlikely event for a string of failures at one site to occur at the adjacent unit but clearly one tsunami wave, a single failure initiating event, affected all units at a given site in Japan. If I am correct, then no US multi unit site is set up to deal with more than a single unit failure at a time. I think prudently this should now be looked at as a credible failure and proper preparations taken to ensure if this were to happen at a US facility then the utility is not in a position that there is insufficient people, emergency response facilities, etc. to deal with a simultaneous multi unit emergency. Possibly, this advanced preparations would prevent the release of radioactive materials to the US environment such as what is happening in Japan as they, by admission, were not prepared to handle a multi unit failure.

VRayFosterJr.  
(b)(6) exb

R/41

**From:** Tobin, Jennifer  
**To:** Bonaccorso, Amy; Janbergs, Holly  
**Cc:** Deavers, Ron  
**Subject:** RE: Call  
**Date:** Monday, March 21, 2011 3:56:00 PM

---

He had a lot of questions on the spent fuel pool at Unit 4 (the one that they've had trouble keeping covered) since the Chairman said it was dry in his statement to Congress last week. He wanted to know about the progression of filling the pool since then.

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

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 18, 2011 3:45 PM  
**To:** Tobin, Jennifer  
**Subject:** FW: Call

Sounds technical...

---

**From:** Shannon, Valerie  
**Sent:** Friday, March 18, 2011 3:41 PM  
**To:** Bonaccorso, Amy  
**Subject:** Call

Name: John Robbart

From: (b)(6)

Phone: (b)(6)

E-mail: (b)(6)

Re: Fuel Rods

ex 6

R/42

**From:** Bonaccorso, Amy  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: Citizen request for information  
**Date:** Monday, March 21, 2011 3:01:15 PM

---

Jenny:

Do you know how to handle this one?

Thanks,

Amy

---

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 2:10 PM  
**To:** Bonaccorso, Amy  
**Subject:** Citizen request for information

Contact – Alam Davis

Phone (b)(6)

Email (b)(6)

Request – Would like the listing of the design power rating for the core.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/43

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: US Boiling Water Reactors with Mark 1 Containments  
**Date:** Monday, March 21, 2011 10:19:45 AM

---

Way too technical for me to even attempt to respond to.

We are seriously thankful for you Jenny!

---

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Monday, March 21, 2011 9:06 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: US Boiling Water Reactors with Mark 1 Containments

---

**From:** Pam Shallenberger [mailto:[\(b\)\(6\)](#)] **ex 6**  
**Sent:** Sunday, March 20, 2011 9:49 PM  
**To:** OPA Resource  
**Subject:** US Boiling Water Reactors with Mark 1 Containments

Question:

Do all US Boiling Water Reactors with Mark 1 Containments have hard pipe vents from both the Suppression Pool, and Primary Containments to the Elevated Release Point so the Reactor Building will not accumulate hydrogen during venting .

R/44

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: Nuclear waste  
**Date:** Monday, March 21, 2011 10:02:15 AM

---

Groundwater question

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Monday, March 21, 2011 9:04 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: Nuclear waste

**From:** Kerry [mailto:[\(b\)\(6\)](#)] *ex 6*  
**Sent:** Sunday, March 20, 2011 6:42 PM  
**To:** OPA Resource  
**Subject:** Nuclear waste

Dear Sir(s),

When the waste material is stored underground, doesn't any of the radioactive waste leech into the ground, and if it does, can it contaminate the water table?

Thank you

[\(b\)\(6\)](#) *ex 6*

*R/46*

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Monday, March 21, 2011 4:50:00 PM

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

From: NRCWEB Resource  
Sent: Monday, March 21, 2011 4:47 PM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: Edward [redacted] Ex 6  
Sent: Monday, March 21, 2011 4:29 PM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Edward [redacted] Ex 6  
on Monday, March 21, 2011 at 16:29:03

---

comments: Dear "expert,"

I am not one of those Americans who believe in Creationism or any religion, for that matter. But, I have even less faith in your industry's ability to police itself properly.

Despite what Mr. Borchhardt states in today's New York Times, it's clear to the American public that safety standards are not sufficient in the US regarding this dangerous category of energy development. There are spent fuel rods stored similarly to what the Japanese have done, not to mention the absurd proximity of the plant near NYC. This is unacceptable!

Somehow the priorities between risk of human well-being and a pragmatic approach to managing this risky industry have gotten reversed. There should be no profit margin whatsoever for any industry involving a substance as dangerous as radioactive material, let alone the current leanings towards viewing this Pandora's Box of problems as an economical solution to our energy needs.

As educated people, you have the responsibility to protect an acutely conservative disposition about the use of nuclear energy. Clearly, our definition of what is safe has **MUST** change after Fukushima, which is what's so particularly distressing about Borchhart's misguided assessment today.

Look up the work of combustion expert Bernard Lewis and then please re-assess your conclusions as to what constitutes safety in the nuclear energy industry today, because the Japanese were saying the very same things as you before this accident happened to them. Need a true scientist understand anything further to change his ways?

organization:

address1: [redacted]

address2:

city: [redacted]

Ex 6

R/47

state: (b)(6)

zip: (b)(6)

country: (b)(6)

Ex 6

phone:

---

**From:** Greg Wingard  
**To:** Janbergs, Holly  
**Subject:** Re: Radiation Exposure Limits  
**Date:** Monday, March 21, 2011 4:13:04 PM

---

Beth:

I started my environmental career on review of radiation health physics studies and nuclear power plant design. I am aware that NRC doesn't set a standard for annual public exposure limits and that wasn't my question.

Rather, periodically, NRC provides an assessment of what the "existing" background dose to the United States public is. This is not a limit, standard, or guideline, but rather a measurement, and estimate of generalized annual exposure rates in a defined geographic/demographic area. I just looked at the latest number, provided on the NRC website, which was 620mR/year.

My question is, in the last thirty or so years, NRC's released numbers for "background" radiation exposure to the US population has risen from around 100 mR/year, to the current 620mR/year. One of the previous drivers of the increase in background radiation dose rates, was above ground, or atmospheric nuclear weapons testing, as well as leaks from sub-surface testing. This led some decades ago to the nuclear test ban treaty. Global radiation levels have decreased as a result of not cooking nukes off in the atmosphere anymore. Around the time of Chernobyl, NRC increased the calculated dose rate to over 300mR/year, then again to the present number on the NRC website.

So my question again, is given a fairly dramatic increase (more than six fold), in the NRC's calculated background dose rates, what exactly is responsible for this increase? As the NRC has to calculate this in the first place to account for the various dose components, somebody in your agency must know which factors in the dose calculation are responsible for the increase in the calculated dose rates.

Regards,

Greg

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

From: "Janbergs, Holly"  
Sent: Mar 21, 2011 12:05 PM  
To: (b)(6)  
Subject: Re: Radiation Exposure Limits

Ex 6

Mr. Wingard,

The NRC does not set the standard for annual public exposure limits; we merely update our documentation and rulemaking accordingly. The standard is set by the National Council on Radiation Protection (NCRP).

Information on NRC's standards on radiation can be found here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/bio-effects-radiation.html>

I believe the supporting document you are looking for regarding the most recent change in annual exposure limits is the NCRP's Report 160, published in 2009.

<http://www.ncrppublications.org/Reports/160>

Thank you,  
Beth

R/48

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Monday, March 21, 2011 4:05:00 PM

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

**From:** NRCWEB Resource  
**Sent:** Monday, March 21, 2011 4:03 PM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** Mike Crusoe [(b)(6)] Ex 6  
**Sent:** Monday, March 21, 2011 3:54 PM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Mike Crusoe [(b)(6)] Ex 6 on Monday, March 21, 2011 at 15:53:57

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comments: To Whom it may concern, After watching several days of all the news channels covering Japan I wonder what the oil looking towers next to the reactors are? First off, I would like to say from all the pictures that I've seen they look like that haven't taken any damage. Why couldn't somebody had design a powerful water hose and attach it at the top of these towers already in place for this reason. I would also have it set up to run regular water, and salt water as a back up by a split valve. Locations by the ocean or fault lines will need generators either placed underground or higher elavations with pumps set up in the same manner. I'm no engineer but I can't imagine somebody didn't think of this. Im sure the cost wouldn't be that much and I think it would be better than having helicopters fly over head dropping water from the sky. Maybe even have them remote control so human life could be spared from radiation. Just an Idea!

organization:

address1: [(b)(6)]

address2:

city: [(b)(6)]

state: [(b)(6)]

zip: [(b)(6)]

country: [(b)(6)]

phone: [(b)(6)]

---

Ex 6

R/49

**From:** Tobin, Jennifer  
**To:** Bonaccorso, Amy; Janbergs, Holly  
**Cc:** Deavers, Ron  
**Subject:** RE: Call  
**Date:** Monday, March 21, 2011 3:56:10 PM

---

He had a lot of questions on the spent fuel pool at Unit 4 (the one that they've had trouble keeping covered) since the Chairman said it was dry in his statement to Congress last week. He wanted to know about the progression of filling the pool since then.

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

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**From:** Bonaccorso, Amy  
**Sent:** Friday, March 18, 2011 3:45 PM  
**To:** Tobin, Jennifer  
**Subject:** FW: Call

Sounds technical...

---

**From:** Shannon, Valerie  
**Sent:** Friday, March 18, 2011 3:41 PM  
**To:** Bonaccorso, Amy  
**Subject:** Call

Name: John Robbart

From: (b)(6)

Phone: (b)(6)

E-mail: (b)(6)

Re: Fuel Rods

Ex 6

R/50

**From:** [Janbergs, Holly](#) on behalf of [OPA Resource](#)  
**To:** [Courret, Ivonne](#)  
**Subject:** FW: Can I get a copy of Mr. Borchardt's prepared remarks? Thanks.  
**Date:** Monday, March 21, 2011 3:32:00 PM

---

**From:** Power, Stephen [<mailto:Stephen.Power@wsj.com>]  
**Sent:** Monday, March 21, 2011 3:32 PM  
**To:** OPA Resource  
**Subject:** Can I get a copy of Mr. Borchardt's prepared remarks? Thanks.

With kind regards,

Stephen Power

Staff Reporter

The Wall Street Journal

Office: (202) 862-9269

Cell: (b)(6) Ex 6

Email: [Stephen.Power@wsj.com](mailto:Stephen.Power@wsj.com)

Follow me on Twitter at <http://twitter.com/stephenpower>

R/ST

**From:** [Janbergs, Holly](#)  
**To:** [Bonaccorso, Amy](#)  
**Subject:** RE: Public - Comment  
**Date:** Monday, March 21, 2011 3:16:00 PM

---

Yeah, VY is pretty set as far as we're concerned. Not much that can be done there. For general anti-nuclear inquiries I would just tell them that the President and Congress set the nation's nuclear agenda, and we're an independent agency that seeks to ensure safe and secure use of nuclear power.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 3:15 PM  
**To:** Janbergs, Holly  
**Subject:** RE: Public - Comment

Okay, thanks – I got another one about concerns over Vermont Yankee – but it looks like the license renewal process for that one is over and done, so there are no opportunities for public involvement. What do we do with general anti-nuke inquiries? I'm sure we get them every day – but I've mainly been dealing with Japan stuff.

---

**From:** Janbergs, Holly  
**Sent:** Monday, March 21, 2011 3:12 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Comment

Not really. If you wanted, you could also tell him that his Senators recently sent letters to the NRC asking for Diablo Canyon and San Luis Obispo to receive special inspections, and that we'll be taking the lessons learned from Japan into account.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 3:10 PM  
**To:** Janbergs, Holly  
**Subject:** FW: Public - Comment

Hey Bethany:

For this inquiry, I am assuming he is talking about Diablo Canyon because there has been a lot of media frenzy over it lately.

It looks like I should send him to this page for public involvement:  
<http://www.nrc.gov/reactors/operating/licensing/renewal/applications/diablo-canyon.html#public>

Is there anywhere else on the website that we typically send people who want to object to a NPP's operation?

Thanks,

Amy

---

**From:** Royer, Deanna

R/52

**Sent:** Monday, March 21, 2011 2:10 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Comment

David Armillie

(b)(6)

Ex 6

Re: The power plant in CA. He doesn't want it there and needs to know who to talk to.

Deanna Royer

**From:** Bonaccorso, Amy  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: The NRC is Negligent in Performing its Duties  
**Date:** Monday, March 21, 2011 4:07:57 PM

---

I just got a ton from the allegations box that are kinda technical....sorry...

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

**From:** (b)(6) (b)(6)  
**Sent:** Friday, March 18, 2011 8:57 PM  
**To:** NRC Allegation  
**Subject:** The NRC is Negligent in Performing its Duties

U.S. pools are storing much more spent fuel than the ones in Fukushima and are currently holding, on the average, four times more than their design intended

Why is that NRC ?

Are you asleep at the switch too, just as TEPCO apparently was ?

YOU NEED TO PAY MORE ATTENTION TO RISKS AT OPEN-AIR STORAGE POOLS !

Why have you ignored this ?

Why did you try to prevent the publication of a study of this issue completed by the National Academy of Sciences ?

I want transparency, not complacency.

God help us,

Chris Bvdalek

(b)(6)

R/53

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:48 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Zena Zipporah

(b)(6)

Re: List of names of all plants in the world and the date they became active

Deanna Royer

R/S4

**From:** Tobin, Jennifer  
**To:** Rex Van Aken  
**Subject:** RE: JAPAN SUPPORT VOLUNTEER  
**Date:** Monday, March 21, 2011 4:03:00 PM

---

Dear Mr. VanAken,  
We have at least one (usually 2 or 3) inspectors stationed at each nuclear power plant. If you are interested, you can apply for an NRC job as an inspector. The employment vacancies can be found on our homepage [www.nrc.gov](http://www.nrc.gov). Please let me know if you have further questions.

-Jenny

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

**From:** Rex Van Aken (b)(6)  
**Sent:** Sunday, March 20, 2011 6:01 PM  
**To:** Tobin, Jennifer  
**Subject:** Re: JAPAN SUPPORT VOLUNTEER

Ms. Tobin,

Would my service help support inspection of our 104 USA plants in operation? Thank you for consideration to support you department.

Mahalo,  
Rex Van Aken

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

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Sent:** Friday, March 18, 2011 10:39 AM  
**Subject:** RE: JAPAN SUPPORT VOLUNTEER

Dear Mr. Van Aken,  
I appreciate your willingness to volunteer your services in this time of need for Japan. Unfortunately, we are not accepting volunteers at this time. I suggest that you contact your local Red Cross or other relief organization and offer your services noting your experience working with radiation. With your knowledge and skill set you would be quite an asset in the cleanup and remediation of the area surrounding the Fukushima plant.  
Thank you for your offer.

-Jenny

**From:** Rex Van Aken (b)(6)  
**Sent:** Tuesday, March 15, 2011 11:35 PM  
**To:** OHRComments Resource

R/SS

**Subject: JAPAN SUPPORT VOLUNTEER**

NRC,

I would like to volunteer my services to help Japan in their time of Nuclear Reactor problems.

(b)(6)

(b)(6)

(b)(6)

A response to this E-mail is requested.

Contact me at:

Cell: (b)(6) ex 6

or

Rex Van Aken

(b)(6)

**From:** [Janbergs, Holly](#)  
**To:** [Tobin, Jennifer](#); [Bonaccorso, Amy](#)  
**Subject:** RE: Technical Qs  
**Date:** Monday, March 21, 2011 3:44:49 PM

---

You are fantastic ☺

**From:** Tobin, Jennifer  
**Sent:** Monday, March 21, 2011 3:44 PM  
**To:** Janbergs, Holly; Bonaccorso, Amy  
**Subject:** RE: Technical Qs

I talked with him, I thought NRC should consider requiring licensees to store spent fuel horizontally instead of vertically so as not to fight the force of gravity with it being easier to cool and potentially contain in this physical consideration. I informed him that our licensees use both configurations and that we will most surely learn a lot from the events that have unfolded in Japan.

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

**From:** Janbergs, Holly  
**Sent:** Friday, March 18, 2011 5:18 PM  
**To:** Tobin, Jennifer  
**Subject:** RE: Technical Qs

Awesome. You are my new favorite person.

First guy is below: he was very adamant. I'll forward other e-mail... this should be it for tonight!

Marshall Tuck

(b)(6)

Wants to know:

Are we storing spent fuel rods vertically? If so, why? Shouldn't they be stored horizontally? If there is a problem and the rods need to be covered, it is a lot easier to fill a pool with a foot of water than 12 ft (or whatever the case may be)

Thank you again!

**From:** Tobin, Jennifer  
**Sent:** Friday, March 18, 2011 5:13 PM  
**To:** Janbergs, Holly  
**Subject:** RE: Technical Qs

yup. i'm at the ops center until 11 tonight

---

R/526

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: public - Question  
**Date:** Monday, March 21, 2011 2:36:09 PM

---

Jenny:

Can you answer this question? Or do we need to refer it?

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:49 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** public - Question

Michael Grady

(b)(6)

Re: (b)(6)

(b)(6)

Deanna Royer

R/57

**From:** Carter, Mary  
**To:** OIP Distribution; LIA02 Hoc; LIA06 Hoc; OST02 HOC  
**Cc:** Matheson, Mary  
**Subject:** interpreters schedules March 23, 24, 25, 26 and 27, 2011  
**Date:** Monday, March 21, 2011 1:15:43 PM  
**Attachments:** [Language Services by Day,27mar.docx](#)  
[Language Services by Day,23mar.docx](#)  
[Language Services by Day,24mar.docx](#)  
[Language Services by Day,25mar.docx](#)  
[Language Services by Day,26mar.docx](#)

---

Interpreters' schedules are attached.

Mary Faith Carter  
Office of International Programs  
U. S. Nuclear Regulatory Commission  
e-mail:mary.carter@nrc.gov  
ph:301-415-2331  
fax:301-415-2395

R/S8











**From:** Bonaccorso, Amy  
**To:** Janbergs, Holly  
**Subject:** RE: Public - Comment  
**Date:** Monday, March 21, 2011 3:15:00 PM

---

Okay, thanks – I got another one about concerns over Vermont Yankee – but it looks like the license renewal process for that one is over and done, so there are no opportunities for public involvement. What do we do with general anti-nuke inquiries? I'm sure we get them every day – but I've mainly been dealing with Japan stuff.

---

**From:** Janbergs, Holly  
**Sent:** Monday, March 21, 2011 3:12 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Comment

Not really. If you wanted, you could also tell him that his Senators recently sent letters to the NRC asking for Diablo Canyon and San Luis Obispo to receive special inspections, and that we'll be taking the lessons learned from Japan into account.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 3:10 PM  
**To:** Janbergs, Holly  
**Subject:** FW: Public - Comment

Hey Bethany:

For this inquiry, I am assuming he is talking about Diablo Canyon because there has been a lot of media frenzy over it lately.

It looks like I should send him to this page for public involvement:  
<http://www.nrc.gov/reactors/operating/licensing/renewal/applications/diablo-canyon.html#public>

Is there anywhere else on the website that we typically send people who want to object to a NPP's operation?

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 2:10 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Comment

David Armillie

(b)(6)

(b)(6)

Ex 6

Re: The power plant in CA. He doesn't want it there and needs to know who to talk to.

Deanna Royer

R/59

**From:** [Janbergs, Holly](#) on behalf of OPA Resource  
**To:** [Janbergs, Holly](#)  
**Subject:** FW: NRC stated "background" radiation  
**Date:** Monday, March 21, 2011 3:03:07 PM

---

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

**From:** Burress, James  
**Sent:** Monday, March 21, 2011 3:01 PM  
**To:** OPA Resource  
**Subject:** FW: NRC stated "background" radiation

Hello,

Our help desk received an email concerning radiation levels (the email is listed below). We've notified Mr. Wingard that his concerns were being forwarded to the OPA. Thank you very much.

Josh Burress  
Meta System Help Desk  
866-672-7640  
[james.burress@nrc.gov](mailto:james.burress@nrc.gov)

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

**From:** General Form Resource [<mailto:General.FormResource@nrc.gov>]  
**Sent:** Monday, March 21, 2011 2:42 PM  
**To:** MSHD Resource  
**Subject:** FW: NRC stated "background" radiation

-----  
**From:** Greg Wingard [(b)(6)] Ex 6  
**Sent:** Monday, March 21, 2011 2:41:36 PM  
**To:** General Form Resource  
**Subject:** NRC stated "background" radiation  
Auto forwarded by a Rule

To Whom it may concern:

Recently looking at your website, I saw the page on "background" radiation. According to this the background dose is in the neighborhood of 620mR/year. Around the time of Chernobyl, NRC said the background dose was around 360 mR/year, prior to that it was around 100mR/year.

Can you explain to me how the background radiation dose has increased over the last 30 years or so from 100mR/year to 620mR/year?

Regards,

Greg

R/60

**From:** Janbergs, Holly  
**To:** (b)(6) Ex 6  
**Subject:** Re: Radiation Exposure Limits  
**Date:** Monday, March 21, 2011 3:05:00 PM

---

Mr. Wingard,

The NRC does not set the standard for annual public exposure limits; we merely update our documentation and rulemaking accordingly. The standard is set by the National Council on Radiation Protection (NCRP).

Information on NRC's standards on radiation can be found here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/bio-effects-radiation.html>

I believe the supporting document you are looking for regarding the most recent change in annual exposure limits is the NCRP's Report 160, published in 2009.

<http://www.ncrppublications.org/Reports/160>

Thank you,  
Beth

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/Le1

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Yvonne  
**Subject:** FW: media request - spent fuel  
**Date:** Monday, March 21, 2011 3:02:00 PM

---

Never mind; sent directly to them

---

**From:** McIntyre, David  
**Sent:** Monday, March 21, 2011 2:59 PM  
**To:** Burnell, Scott; scott.disavino@thomsonreuters.com; OPA Resource  
**Subject:** RE: media request - spent fuel

Scott – NRC doesn't track it, believe it or not, but the Congressional Research Service gave [this presentation](#) in March 2010 before the BRC.

*David McIntyre*  
*Office of Public Affairs*  
*U.S. Nuclear Regulatory Commission*  
*(301) 415-8200*

---

**From:** Burnell, Scott  
**Sent:** Monday, March 21, 2011 2:57 PM  
**To:** scott.disavino@thomsonreuters.com; OPA Resource; McIntyre, David  
**Subject:** RE: media request - spent fuel

Hi Scott;

I'm around, but David's the person best positioned to give you the latest on spent fuel. Thanks.

Scott

---

**From:** scott.disavino@thomsonreuters.com [mailto:scott.disavino@thomsonreuters.com]  
**Sent:** Monday, March 21, 2011 2:56 PM  
**To:** OPA Resource; Burnell, Scott  
**Subject:** media request - spent fuel

Hi,

Not sure who is on

We're looking for some data on how much spent fuel is being stored at the reactors in the US – in the pools and in dry cask storage where available

Is there a list on the NRC site or is this considered confidential for security reasons or some such

R/62

Thanks,

Scott

**Scott DiSavino**  
Correspondent  
Thomson Reuters

Phone: 1 646 223 6072

Mobile: (b)(6)

Ex 6

Email - [scott.disavino@thomsonreuters.com](mailto:scott.disavino@thomsonreuters.com)

Reuters (Instant) Messaging - [scott.disavino.thomsonreuters.com@reuters.net](mailto:scott.disavino.thomsonreuters.com@reuters.net)

[thomsonreuters.com](http://thomsonreuters.com)

This email was sent to you by Thomson Reuters, the global news and information company. Any views expressed in this message are those of the individual sender, except where the sender specifically states them to be the views of Thomson Reuters.

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Nuclear plants, Japan  
**Date:** Monday, March 21, 2011 2:50:00 PM

---

**From:** Leland (b)(6) ] Ex 6  
**Sent:** Monday, March 21, 2011 2:50 PM  
**To:** OPA Resource  
**Subject:** Re: Nuclear plants, Japan

**Got to thinking and the below in regards to the delivery of said tank, and that would be only the 'last resort' method, what I thought of for a more controlled introduction of the tank of liquid hydrogen or nitrogen would be as follows;**

- 1). First, take an empty tank and weld a hook on the end of it so you can attach a chain. Welding should be done so as not to hurt the tank any so that it can be pressurized, testing with pressure before filling should be done.**
- 2). Fill tank, then come out from the valve with black iron piping into a cross-type pattern, capping all the ends.**
- 3). Drill holes in the piping at regular intervals.**
- 4). Turn on valve and lower the tank, upside down, until it comes to just above the cooling water in the core, allowing tank to empty out.**

**The above should freeze the water in there, add more water when applicable.**

---

**From:** Leland (b)(6) ] Ex 6  
**To:** opa.resource@nrc.gov  
**Sent:** Fri, March 18, 2011 1:03:34 PM  
**Subject:** Re: Nuclear plants, Japan

Another note if the below is deemed possible, I thought about the delivery of such and if they can put a small breaching charge on the valve of a

R/63

Nitrogen/Hydrogen tank and lower the tank down into the core and detonate the charge, that might be a way of delivering the coolant.

---

**From:** Leland (b)(6) Ex 6  
**To:** opa.resource@nrc.gov  
**Sent:** Thu, March 17, 2011 6:37:41 PM  
**Subject:** Nuclear plants, Japan

**To whom it may concern,**

**Got to thinking about Japan's situation and came up with an idea on the cooling if it could be done.**

**If they could somehow introduce liquid nitrogen or hydrogen into the water that is being used to cool it down, might bring about a more controllable situation.**

**Just a thought,**

**Leland Carriker**

(b)(6)

(b)(6) Ex 6  
(cell)

From: Janbergs, Holly on behalf of OPA Resource  
To: Bonaccorso, Amy  
Subject: FW: Radiation Question  
Date: Monday, March 21, 2011 2:31:00 PM

---

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

From: (b)(6) Ex 6  
Sent: Monday, March 21, 2011 2:31 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) Ex 6 on Monday, March 21, 2011 at 14:31:06

---

comments: Could radioactive particles emitted from the Fukushima Nuclear Plants travel to Hawaii via air or ocean water? I know that a statement has been issued that it doesn't seem likely to have happened recently based on all the monitoring systems out there. However, could it be possible given the roughly 4,000 miles between Japan and Hawaii? Since the current situation is not fully contained yet, if aftershocks occur thereby causing more damages, could radiation leakage be at a dangerously high level where it might affect places like Hawaii and West Coast Continental U.S?

contactName:

phone:

---

R/64

**From:** Janbergs, Holly  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question  
**Date:** Monday, March 21, 2011 2:39:00 PM

---

No worries ☺ When I find informational queries I try to take some of them instead of sending them on; I don't mind if you want me to go digging for things.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:39 PM  
**To:** Janbergs, Holly  
**Subject:** RE: Public - Question

Okay – good call. That's what I'll do. I'll probably have more questions for ya!

Thanks,

Amy

---

**From:** Janbergs, Holly  
**Sent:** Monday, March 21, 2011 2:38 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question

I would send them the US list and say that we only maintain informational listings for US reactors. Maybe refer them to the IAEA as well. I wouldn't send them to non-governmental sites; they can Google as well as you can.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:37 PM  
**To:** Janbergs, Holly  
**Subject:** RE: Public - Question

Well – I wasn't sure if we had a list of international NPPs. They want everything in the world. As far as I can tell, we only have US listings on our website.

---

**From:** Janbergs, Holly  
**Sent:** Monday, March 21, 2011 2:36 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question

If you get general information questions to things that can be found on our website, you can refer them to me if you like.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:35 PM  
**To:** Janbergs, Holly  
**Subject:** FW: Public - Question

Bethany:

R/65

Question for you. When you get general questions like this, where do you refer them?

I found the type of list this person is requesting, but it's not from a governmental site and I am not sure I should be sending it out!

US plants are here: <http://www.nrc.gov/info-finder/reactor/>

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:48 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Zena Zipporah

(b)(6)

Ex 6

Re: List of names of all plants in the world and the date they became active

Deanna Royer

**From:** Bonaccorso, Amy  
**To:** Janbergs, Holly  
**Subject:** RE: Public - Question  
**Date:** Monday, March 21, 2011 2:37:00 PM

---

Well – I wasn't sure if we had a list of international NPPs. They want everything in the world. As far as I can tell, we only have US listings on our website.

---

**From:** Janbergs, Holly  
**Sent:** Monday, March 21, 2011 2:36 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question

If you get general information questions to things that can be found on our website, you can refer them to me if you like.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:35 PM  
**To:** Janbergs, Holly  
**Subject:** FW: Public - Question

Bethany:

Question for you. When you get general questions like this, where do you refer them?

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US plants are here: <http://www.nrc.gov/info-finder/reactor/>

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:48 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Zena Zipporah

(b)(6)

Ex 6

Re: List of names of all plants in the world and the date they became active

Deanna Royer

R/66

**From:** [Bonaccorso, Amy](#)  
**To:** [Janbergs, Holly](#)  
**Subject:** RE: Public - Question  
**Date:** Monday, March 21, 2011 2:38:36 PM

---

Okay – good call. That's what I'll do. I'll probably have more questions for ya!

Thanks,

Amy

---

**From:** Janbergs, Holly  
**Sent:** Monday, March 21, 2011 2:38 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question

I would send them the US list and say that we only maintain informational listings for US reactors. Maybe refer them to the IAEA as well. I wouldn't send them to non-governmental sites; they can Google as well as you can.

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:37 PM  
**To:** Janbergs, Holly  
**Subject:** RE: Public - Question

Well – I wasn't sure if we had a list of international NPPs. They want everything in the world. As far as I can tell, we only have US listings on our website.

---

**From:** Janbergs, Holly  
**Sent:** Monday, March 21, 2011 2:36 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question

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---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:35 PM  
**To:** Janbergs, Holly  
**Subject:** FW: Public - Question

Bethany:

Question for you. When you get general questions like this, where do you refer them?

I found the type of list this person is requesting, but it's not from a governmental site and I am not sure I should be sending it out!

US plants are here: <http://www.nrc.gov/info-finder/reactor/>

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:48 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Zena Zipporah

(b)(6)

Ex 6

Re: List of names of all plants in the world and the date they became active

Deanna Royer

**From:** Manfred Oster  
**To:** Janbergs, Holly  
**Subject:** Re: Nuclear Emergency Concerns  
**Date:** Monday, March 21, 2011 2:00:42 PM

---

Bethany

Thank you for the prompt answer and the links. I understand that the NRC has a tough job at hand right now and I trust that you will act as a consequence of the GAIU in Japan. A new benefit-risk evaluation of nuclear power is absolutely necessary, a failure of all safety features can happen anywhere, and it is not assuring that the risk is low. I hope this reevaluation will result at the least in shutting down some old facilities near very big cities (like the Indian point power plant near NYC) and re-discussion of the unsolved problem of nuclear waste management.

Respectfully

Dr. Christiane Oster

On Mar 16, 2011, at 6:20 PM, Janbergs, Holly wrote:

Dr. Oster,

I understand your concerns, and I'm sorry they were not adequately addressed in the last e-mail. The NRC has a lot of information on our public site that can answer your questions, in addition to the ongoing press releases and blog posts we have been putting out. I'll try to answer your questions as well as linking you to further information if you would like to learn more.

The NRC takes public safety and security very seriously, and is constantly reviewing procedures and structures to encompass any new developments. The situation in Japan is very serious, and as we learn more we will be learning what we can from the events and how they unfolded. Any information that can have application in U.S. plants will be studied extensively.

All of our plants are required to have emergency plans, both for the integrity of the plant and for the safety of the public. Plant owners, government officials (Federal, state, and local), and even volunteers have worked together to create effective response plans in the event of disaster. These plans are regularly tested in the course of drills and exercises in order to identify areas for improvement.

You can learn more about emergency preparedness here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/fs-emerg-plan-prep-nuc-power.html>

and more information on specific biological effects of radiation, including maximum recommended radiation exposure limits, here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/bio-effects-radiation.html>

For all nuclear power plants, the NRC requires that structures and systems are designed to take into account the most severe seismic activity historically

R/67

reported for the site, as well as a surrounding around of 200 miles. The agency then adds in a margin of error on top of that. You can find more information on our standards regarding earthquakes here:

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/fs-seismic-issues.html>

I understand if you would like to take a closer look at the NRC's process. The NRC has been working on revising seismic activity estimates for nuclear reactors in the central and eastern states, and in August 2010 we published our findings. You can find that report by going to our public document database, ADAMS, here:

<http://adamspublic.nrc.gov/fnopenclient/>

Click on "Public Library," then "Search" in the upper right hand corner. In the drop-down menu, select "Package Search." The Accession number for the package is ML100270582. Contained within that package are all the documents that comprise this study.

In regards to further concerns about radiation monitoring, the NRC still does not expect the U.S. (including Hawaii, Alaska, U.S. Territories, the West Coast) to experience harmful levels of radioactivity. We continue to monitor wind patterns, and are working with other U.S. agencies to monitor radioactive releases and predict their paths. A number of agencies have been working to monitor and assess radiation, both in Japan and at home. The best source for additional information on specific monitoring levels will be the Environmental Protection Agency. They issued a statement on air monitoring efforts for radiation yesterday which you may find helpful:

<http://www.epa.gov/radiation/statement.html>

I hope this helps answer your questions.

Best,  
Bethany

---

**From:** Manfred Oster (b)(6) Ex 6  
**Sent:** Wednesday, March 16, 2011 9:03 AM  
**To:** Janbergs, Holly  
**Subject:** Re: Nuclear Emergency Concerns

Your answer is not satisfactory to me at all. The Indian point power plant is 25 miles from NYC. Are you suggesting, that in case of a radiation emergency (that nobody can put at zero, and that is the level we need to discuss, not a low probability), that 8 million people are staying inside or evacuate? Where do I find information on the magnitude of earthquakes that are assumed for the nuclear power plants to be safe? Are ALL nuclear power plants designed to withstand a plane crash? The radiation emisison rates in Japan are alarming. We did not learn anything from Tschernobyl, apparently. The link is not satisfactory either, since the radiation that is listed there is not given per hour, when the actual hourly rate is 300 times more than the "natural" radiation exposure per year!

It is irresponsible to look the other way and just assume the worst case scenario will never happen, since with this technology, we cannot contain that worst case scenario.

Respectfully rejecting your answer to my email

Dr. Christiane Oster

(FTI I am a (b)(6))

On Mar 15, 2011, at 4:31 PM, Janbergs, Holly wrote:

Dr. Oster,

We understand your concerns. At this time, there has been no change in the NRC's perception of earthquake hazard for U.S. nuclear plants. However, we are closely monitoring the incident in Japan, and will be looking closely at the effects to see if any changes are necessary to NRC regulations.

The NRC has been working with several agencies to assess recent seismic research for the central and eastern part of the country, and that work continues to indicate that U.S. plants will remain safe. 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, plus an additional margin for error.

If you would like to follow the NRC response to the crisis in Japan, you can find current news releases here <http://www.nrc.gov/reading-rm/doc-collections/news/2011/> and posts on our blog here <http://public-blog.nrc-gateway.gov/>. As the situation unfolds, we will be taking any appropriate steps forward that are necessary.

Thank you for expressing your concern.

Best,  
Bethany Janbergs

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

**From:** Burnell, Scott  
**To:** Screnci, Diane; Sheehan, Neil; Hannah, Roger; Ledford, Joey; Chandrathil, Prema; Mitlyng, Viktoria; Dricks, Victor; Uselding, Lara; Hayden, Elizabeth; Harrington, Holly; McIntyre, David; Couret, Ivonne; Janbergs, Holly  
**Subject:** Fw: Preliminary Questions  
**Date:** Monday, March 21, 2011 1:59:29 PM

---

The link goes to the scanned PDF of typed-out letter.

Sent from an NRC Blackberry  
Scott Burnell

(b)(6)

---

**From:** Cappiello, Dina <DCappiello@ap.org>  
**To:** Burnell, Scott  
**Cc:** Brenner, Eliot  
**Sent:** Mon Mar 21 12:38:27 2011  
**Subject:** RE: Preliminary Questions

The primary source right now is a September 1, 1989 letter – that is online in ADAMS – TO: All holders of Operating Licenses for Nuclear Power Reactors with Mark I containments.

Here is the link, provided by your library:

<http://adamswebsearch2.nrc.gov/IDMWS/DocContent.dll?>

library=PU\_ADAMS^pbntad01&LogonID=031fdc6dfe9093c593fdd4159f803d7d&id=031220321

I will start calling the companies as a back up to see if they installed this.

---

**From:** Burnell, Scott [mailto:Scott.Burnell@nrc.gov]  
**Sent:** Monday, March 21, 2011 12:36 PM  
**To:** Cappiello, Dina  
**Cc:** Brenner, Eliot  
**Subject:** RE: Preliminary Questions

Hello Dina;

I'll be checking with the staff on your questions – what are you basing them on, by the way?

I can offer a fairly solid prediction that since your #2 refers to the pre-Internet era, it's going to take a considerable amount of time and effort to do a search.

Thanks for your patience as we work on this.

Scott

---

**From:** Cappiello, Dina [mailto:DCappiello@ap.org]

R/68

**Sent:** Monday, March 21, 2011 12:24 PM  
**To:** Burnell, Scott  
**Subject:** Preliminary Questions

Scott,

Here are my main questions on Mark I story for now:

1. In 1989, the commission made the installation of a hardened wetwell vents voluntarily at Mark 1 reactors. Which facilities of the 23 Mark 1 containment reactors elected NOT to install this feature? Why not? Did cost play into decision not to install?
2. Each facility in 1989 was required to provide staff a cost for the implementation of the hardened vent by pipe replacement. I would like copies of these cost estimates.
3. Lastly, are there any other instances where the Congressionally-required cost-benefit analysis prevented industry operating Mark 1's from installing or retrofitting equipment?

Dina Cappiello  
Environment/Energy Reporter  
The Associated Press  
1100 13<sup>th</sup> Street NW, Suite 700  
Washington, DC 20005  
(202)-641-9446 (o)  
(202)-403-3582 (f)

(b)(6)

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[IP\_US\_DISC]msk dccc60c6d2c3a6438f0cf467d9a4938

**From:** [Janbergs, Holly](#) on behalf of OPA Resource  
**To:** [Bonaccorso, Amy](#)  
**Subject:** FW: Japanese Nuclear Crisis  
**Date:** Monday, March 21, 2011 12:38:00 PM

---

**From:** HSS User Support [<mailto:HSSUserSupport@hq.doe.gov>]  
**Sent:** Monday, March 21, 2011 12:28 PM  
**To:** OPA Resource  
**Subject:** FW: Japanese Nuclear Crisis

Good morning,

The email below was submitted to the Office of Health, Safety and Security (HSS) User Support mailbox at the Department of Energy. Inquiries of this nature are forwarded to the most appropriate Federal point-of-contact or "information expert" for response.

Please respond to this inquiry as quickly as possible, copying HSS User Support for tracking purposes.

If you are not the correct person to respond to this inquiry, please advise HSS User Support by return email with the name or organization that would be more appropriate to respond.

Thank you in advance for your assistance,

HSS User Support  
Office of Health, Safety and Security  
Office of Information Management  
301-903-8358 or 1-800-4783-4375  
[hssusersupport@hq.doe.gov](mailto:hssusersupport@hq.doe.gov)

**From:** Harold Hicks (b)(6) ] Ex 6  
**Sent:** Saturday, March 19, 2011 1:09 AM  
**To:** HSS User Support  
**Subject:** Japanese Nuclear Crisis

The Japanese are using light helicopters to dump water from internal tanks from an estimated safe

R/69

altitude of 300 ft. Most of the water is dispersed before it ever reaches the target. As a suggestion, consider using something like a Sikorsky CH-54 Skycrane or the Erickson Air-Crane with a large water bag(s) or buckets suspended from a 300-400 ft cable. The load of approximately 3000 gal. could be easily dumped on target in volume without significant loss of water. The cable could be lengthened, if need be, to reduce air crew exposure. Two or three such airframes working in relays could readily fill the fuel rod containment vessel and cool the surrounding structures. The Japanese fire crews are fighting a losing battle because of insufficient water volume and poorly directed targeting. The Forest Service uses such airframes successfully in fighting forest fires. This is a similar application of technology.

Just a suggestion. If anyone is listening or cares.

Harold Hicks, PhD

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Solution (?) to Japan's Reactor Crisis  
**Date:** Monday, March 21, 2011 12:38:00 PM

---

**From:** MSHD Resource  
**Sent:** Monday, March 21, 2011 11:42 AM  
**To:** OPA Resource  
**Subject:** FW: Solution (?) to Japan's Reactor Crisis

FYI

**From:** General Form Resource [mailto:General.FormResource@nrc.gov]  
**Sent:** Saturday, March 19, 2011 8:39 AM  
**To:** MSHD Resource  
**Subject:** FW: Solution (?) to Japan's Reactor Crisis

**From:** (b)(6) ] Ex 6  
**Sent:** Saturday, March 19, 2011 8:38:26 AM  
**To:** General Form Resource  
**Cc:** (b)(6) ] Ex 6  
**Subject:** Solution (?) to Japan's Reactor Crisis  
**Auto forwarded by a Rule**

Please pass this email on to the proper department.

I have an idea which may help slow the amount of radiation being produced by the fuel rods at the reactors in Japan.

My idea is more of a question and I am really wondering if it has any merit. I am wondering if small particles of carbon mixed with the water that is being poured on the reactor would help slow reaction between the fuel rods and as a result gradually allow them to cool down?

I am thinking that by mixing the carbon particles with the water it can be shot into the reactor and the cooling pools from a distance. As the water is boiled off by the extreme heat the carbon particles will be left behind and coat the fuel rods.

My question is, Would the carbon coating on the fuel rods left behind by evaporation, and the presence of carbon particles in the water slow the reaction process and allow the rods to gradually cool down with the help of the water?

Please contact me if you have any comments.

Best Regards,  
Ray Brown

(b)(6) ] Ex 6

R/70

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: Please add me to your media list - Reuters  
**Date:** Monday, March 21, 2011 12:38:00 PM

---

**From:** roberta.rampton@thomsonreuters.com [mailto:roberta.rampton@thomsonreuters.com]  
**Sent:** Monday, March 21, 2011 12:12 PM  
**To:** OPA Resource  
**Subject:** Please add me to your media list - Reuters

Hello:

I've been seconded to help my colleagues at Reuters cover nuclear energy. I've signed up for releases via your website, but if you also maintain a media list for advisories etc, could you please add my contact information to that?

Best thanks,  
Roberta Rampton

---

**Roberta Rampton**  
Correspondent  
Reuters

Phone: 202 898 8376

Mobile: (b)(6) Ex 6  
roberta.rampton@thomsonreuters.com

RSS feed: <http://blogs.reuters.com/roberta-rampton/feed/>

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R/71

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: Nuclear Insurance an Disaster Relief Funds  
**Date:** Monday, March 21, 2011 10:32:24 AM

---

**From:** (b)(6) Ex 6  
**Sent:** Monday, March 21, 2011 10:26 AM  
**To:** OPA Resource  
**Subject:** Nuclear Insurance an Disaster Relief Funds

Inquiry being made into the Nucelar Insurance and Disaster Relief Funds. Does the Price-Anderson Act apply to residential and business owners?

That is, if area declared emergency and evacutation necessary, is their relief available from this fund for both residential property owners and businesses affected?

Thanking you in advance for any information.

Patricia Kranbuhl

R/72

**From:** Janbergs, Holly  
**To:** (b)(6) Ex 6  
**Subject:** Re: Price-Anderson Act  
**Date:** Monday, March 21, 2011 10:37:00 AM

---

Ms. Kranbuhl,

Information on the Price-Anderson act can be found on our public website here:  
<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/funds-fs.html>  
Insurance under the Act covers a variety of damages and expenses.

I hope this helps.

Thank you,  
Bethany

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/73

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: Interview Request--Chairman Jaczko  
**Date:** Monday, March 21, 2011 10:32:00 AM

---

**From:** Kirkland, Pamela [mailto:Pamela.Kirkland@siriusxm.com]  
**Sent:** Monday, March 21, 2011 10:22 AM  
**To:** OPA Resource  
**Subject:** Interview Request--Chairman Jaczko

Good Morning,

I'm one of the producers for POTUS—the political news channel here at Sirius XM. I wanted to reach out to ask if we might be able to schedule an interview with NRC Chair Gregory Jaczko. We'd like to speak with him about President Obama's call for a review of domestic nuclear plants. This would be a 10 minute phone interview with the host of our morning program, Tim Farley. We have time at 7:20a ET or 7:40a ET for the remainder of the week if the Chairman has any available time. Please feel free to contact me with any questions or concerns you may have.

Best,

Pamela

PAMELA KIRKLAND  
SENIOR PRODUCER "THE MORNING BRIEFING"  
POTUS SIRIUS110/ XM130  
202-380-1416 OFFICE  
202-380-4880 STUDIO  
CELL Ex 6  
WWW.XMRADIO.COM/POTUS  
WWW.SIRIUS.COM/POTUS

R/74

**From:** [Janbergs, Holly](#)  
**To:** [Bonaccorso, Amy](#)  
**Subject:** RE: Response from "Contact the NRC Web Site Staff"  
**Date:** Monday, March 21, 2011 9:11:00 AM

---

Ah, okay. I'll help too if you need.

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

From: Bonaccorso, Amy  
Sent: Monday, March 21, 2011 9:10 AM  
To: Janbergs, Holly  
Subject: RE: Response from "Contact the NRC Web Site Staff"

Sure thing. I am alone now but will let Holly know if I need more support.

Thanks,

Amy

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

From: Janbergs, Holly  
Sent: Monday, March 21, 2011 9:09 AM  
To: Bonaccorso, Amy  
Subject: RE: Response from "Contact the NRC Web Site Staff"

I'll forgive a few typos :)

Yeah, Val and I will be checking the OPA box. Keep in mind those e-mails are from Sunday and today, so... amount still seems to be down. I'm forwarding them all to you; I figure you can spread them out as you see fit. Is that okay?

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

From: Bonaccorso, Amy  
Sent: Monday, March 21, 2011 9:05 AM  
To: Janbergs, Holly  
Subject: RE: Response from "Contact the NRC Web Site Staff"

Obviously I'm still not awake - I noticed I committed a typo in my earlier email.

Well - some emails are starting to come in now....but yes, Holly thinks it is going to die down too.

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

From: Janbergs, Holly  
Sent: Monday, March 21, 2011 8:49 AM  
To: Bonaccorso, Amy  
Subject: RE: Response from "Contact the NRC Web Site Staff"

I feel like we finally got staffed up and ready and braced, and it's going to be a huge let down, haha. But I'm okay with that.

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

From: Bonaccorso, Amy  
Sent: Monday, March 21, 2011 8:48 AM  
To: Janbergs, Holly  
Subject: RE: Response from "Contact the NRC Web Site Staff"

Well - I have a few things in my inbox to respond to, but it looks like I'm getting a mini-break. I am

R/75

wondering if the public meeting with prompt more inquiries. We'll see - we're prepared at this point, and that's good.

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

From: Janbergs, Holly  
Sent: Monday, March 21, 2011 8:46 AM  
To: Bonaccorso, Amy  
Subject: RE: Response from "Contact the NRC Web Site Staff"

Yes, I did.

The weekend went surprisingly quietly. How was yours?

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

From: Bonaccorso, Amy  
Sent: Monday, March 21, 2011 8:40 AM  
To: Janbergs, Holly  
Subject: FW: Response from "Contact the NRC Web Site Staff"

Bethany:

I believe you responded to this one...but wanted to confirm because I still had it flagged.

Hope the weekend wasn't too hard on you!

Thanks,

Amy

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

From: OPA Resource  
Sent: Friday, March 18, 2011 1:07 PM  
To: Bonaccorso, Amy  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: NRCWEB Resource  
Sent: Friday, March 18, 2011 11:49 AM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: david leroy watson (b)(6) ] Ex 6  
Sent: Friday, March 18, 2011 11:46 AM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

david leroy watson (b)(6) ] Ex 6 on Friday, March 18, 2011 at 11:45:45

Comments: my name is David Leroy Watson (b)(6)

(b)(6)

(b)(6)

organization: (b)(6)

address1: (b)(6)

address2: (b)(6)

city: (b)(6)

state: (b)(6)

zip: (b)(6)

country: (b)(6)

phone: (b)(6)

Ex 6

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**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Alternative cooling systems for Nuclear Power Plants.  
**Date:** Monday, March 21, 2011 9:08:00 AM

---

**From:** Goldberg, Francine  
**Sent:** Monday, March 21, 2011 9:00 AM  
**To:** OPA Resource  
**Subject:** FW: Alternative cooling systems for Nuclear Power Plants.

Please put this with the others you are receiving.

**From:** Miguel Brito (b)(6) ] Ex 6  
**Sent:** Sunday, March 20, 2011 11:22 AM  
**To:** DataQuality Resource; Schaeffer, James; Goldberg, Francine; opa.resouce@nrc.gov  
**Subject:** Alternative cooling systems for Nuclear Power Plants.

Hi,

I don't have a great knowledge about Nuclear Power Plant design but looking and the tragedy that happened in Japan with the fear of a possible reactor meltdown, I tried to think what the designers could do to prevent such situations.

I understand that the main issue is the inability of cooling down the rods inside the reactor in a sustained electric power loss. The high temperature inside the reactor keeps converting the water in steam leaving the rods uncovered increasing the temperature inside the reactor creating more steam accelerating the process until the core reaches the meltdown temperature.

Is it possible to build an emergency steam engine, or several, that in case of a power loss could use the steam created in the reactor to operate the cooling pumps? If this steam engine could mechanically operate these pumps (in the same way an old railway locomotive turns its wheels), the system could have cool water circulation as long and there is steam pressure. It is my understanding that there two water loops, the steam water that goes from the reactor in to the generators and the cooling loop between the condenser and the cooling tower so both of this loops would need to have steam operated pumps. As in the other cooling emergency systems, the diesel or the battery operated, it would rely on the cool water supply.

I don't know if this is feasible (it might not be realistic) or if someone already had this idea, but I though this could be a good idea.

Thanks,

Miguel Brito

R/76

**From:** Janbergs, Holly  
**To:** (b)(6) Ex 6  
**Subject:** Re: Copy of Notice  
**Date:** Monday, March 21, 2011 9:10:00 AM

---

Mr. Meyer,

Regarding the "NRC Informs U.S. Nuclear Power Plants on Japan Earthquake's Effects," the notice has been posted online along with the press release. You can find the notice here:

<http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notices/2011/ML110760432.pdf>

Thank you,  
Bethany

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/77

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Monday, March 21, 2011 9:07:00 AM

---

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

From: NRCWEB Resource  
Sent: Monday, March 21, 2011 6:55 AM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: Debi Schmitt (b)(6) Ex 6  
Sent: Sunday, March 20, 2011 9:16 PM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Debi Schmitt (b)(6) Ex 6 on Sunday, March 20, 2011 at 21:16:06

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comments: A story was posted on line at Cnn.com. It is about 'How close do you live to a nuclear plant. I put in my zip code, (b)(6) It said I lived a mile away. This is incorrect information. This zip code is for (b)(6) I am more then a mile away. This needs to be corrected.

organization:

address1: (b)(6)  
address2:  
city: (b)(6)  
state: (b)(6)  
zip: (b)(6)  
country: (b)(6)  
phone:

Ex 6

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R/78

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Radiation Question  
**Date:** Monday, March 21, 2011 9:06:00 AM

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

From: (b)(6) ] Ex 6  
Sent: Monday, March 21, 2011 1:28 AM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) Ex 6 on Monday, March 21, 2011 at 01:28:07

---

comments: (b)(6)

(b)(6) The State Dept. of the USA has issued a travel warning advising people to not come and leave if possible of people as far south as nagoya. (b)(6)

(b)(6)

Thank so much.

Sincerely,

Brad Jorgensen, concerned (b)(6)

contactName: Brad Jorgensen

phone: (b)(6)

---

R/79

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Letter of introduction  
**Date:** Monday, March 21, 2011 9:06:00 AM  
**Attachments:** DOK-ING Letter of introduction.pdf

---

**From:** Ana Majetić [mailto:a.majetic@dok-ing.hr]  
**Sent:** Monday, March 21, 2011 6:18 AM  
**To:** OPA Resource  
**Subject:** Letter of introduction

Dear sir/ madam,

I am contacting You on behalf of Croatian company DOK-ING Ltd, producer of remote-controlled robotic vehicles. Since the recent tragic events that took place in Japan, we have been receiving more and more e-mails with content suggesting us to take steps in approaching business associated with high risk industries. We would like to use this opportunity to familiarize you with our work and future potential in development of our firefighting robotic vehicle associated with high-risk industries.

Enclosed you will find the letter of introduction, which will provide you with information about our unique company and product.

Please, find link with the video of the following product: <http://www.youtube.com/watch?v=V7z9YEHCTIQ>

We would be grateful and privileged if you would be able to assist us on this topic.

We are looking forward to your reply and any additional information regarding our enquiry.

Kind regards,

Ana Majetić  
Sales Manager

DOK-ING d.o.o.  
Kanalski put 1  
10000 Zagreb  
Croatia  
Telephone: +385 1 2481 388  
Fax: +385 1 2481 303

Mobile: (b)(6) Ex 6  
E-mail: [a.majetic@dok-ing.hr](mailto:a.majetic@dok-ing.hr)

Web: [www.dok-ing.hr](http://www.dok-ing.hr)

R/80



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**DOK-ING** d.o.o.

Kanalski put 1  
10000 Zagreb, Croatia  
T. +385 1 2481 300  
F. +385 1 2481 303  
dok-ing@dok-ing.hr  
www.dok-ing.hr

Dear Sir/Madam,

It is a great privilege to contact You on behalf of DOK-ING Ltd., the Croatian production company. The nature and heart of our business places the importance on safety and security of the most important goal - human life preservation.

In the light of the recent tragic events that shocked and distressed the global community, we wish to express our support and solace to all that have been harmed by the stream of the tragic events in Japan.

In our aim to get in touch with You we wish to indentify, whether our assistance and knowledge could serve in finding the suitable solutions for the future prevention of hazardous threats, that are emerging at the ever increasing pace.

DOK-ING is the company specialized in the development and production of remotely controlled products for demining, mining and firefighting industries. In this manner, we would like to acquaint You with one of our products, that is a result of 18 years of constant ongoing in-house research and development.

The MVF-5 is a remote-controlled robotic vehicle, developed explicitly for life threatening situations, where the accessibility of standard firefighting vehicles is limited or not possible at all. The MVF-5 is the third product launched by DOK-ING. The Design was based on the development of the previous DOK-ING remote-controlled machines. The MVF-5 is an example of the highly sophisticated vehicle incorporated with tailor made technology. This enables the end-user to fight and extinguish fires with precision and capacity that is uncommon for standard and frequently used firefighting vehicles.

Multi-functionality of the machine enables usage in urban areas, protection of areas endangered by fast approaching fire, mine polluted areas and pathless terrains. The MVF-5 is predominantly designed and equipped to operate in high-risk environment, where fire and other threats are at higher level of occurrence. Furthermore, the unique feature that distinguishes MVF-5 is the ability to custom alter the machine to fit individual requirements of diverse industrial needs.

The aim of our contact at this point in time is to introduce the product that could additionally contribute to safety and security issues associated with high risk industries. We would encourage you to provide us with the feedback, as we deeply desire to engage in further communication.

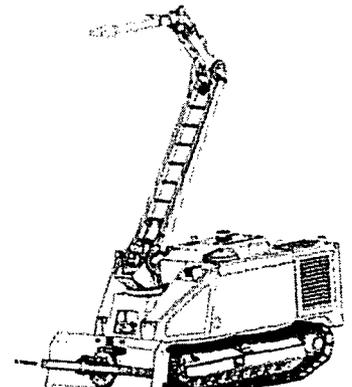
In the mean time our initiative to familiarize the community with our products and our work will continue, as our goal remains the same - to protect the human life.

Most cordially,

  
Vjekoslav Majetić, General Director



DOK-ING d.o.o.  
ZAGREB  
Kanalski put 1 03  
OIB 39982657045



**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact Us about Public Meetings on Nuclear Security and Safeguards;  
**Date:** Monday, March 21, 2011 9:06:00 AM

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

**From:** NSIR\_WebServices Resource  
**Sent:** Monday, March 21, 2011 6:19 AM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact Us about Public Meetings on Nuclear Security and Safeguards;

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

**From:** (b)(6) ] Ex 6  
**Sent:** Friday, March 18, 2011 11:40 PM  
**To:** NSIR\_WebServices Resource  
**Subject:** Response from "Contact Us about Public Meetings on Nuclear Security and Safeguards;

Below is the result of your feedback form. It was submitted by

(b)(6) ] Ex 6 on Friday, March 18, 2011 at 23:39:35

---

comments: do you have a website where we can get current levels of radiation in the air for So. California? I'd like to get on an automatic daily update on levels if possible.

name: Jennifer

organization: citizen

address1:

address2:

city:

state: (b)(6)

zip: (b)(6)

country: (b)(6)

phone:

---

R/81

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: NRC Informs U.S. Nuclear Power Plants on Japan Earthquake's Effects  
**Date:** Monday, March 21, 2011 9:05:00 AM

---

**From:** Bob Meyer [(b)(6)] Ex 6  
**Sent:** Sunday, March 20, 2011 9:13 PM  
**To:** OPA Resource  
**Subject:** Re: NRC Informs U.S. Nuclear Power Plants on Japan Earthquake's Effects

Is it possible to receive a copy of the notice?

Robert Meyer

[(b)(6)] Ex 6

**From:** opa administrators  
**Sent:** Friday, March 18, 2011 4:28 PM  
**To:** [(b)(6)]  
**Subject:** NRC Informs U.S. Nuclear Power Plants on Japan Earthquake's Effects

R/82

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: WSJ inquiry on radiation numbers  
**Date:** Monday, March 21, 2011 9:05:00 AM

---

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

**From:** Carl Bialik [redacted] Ex 6  
**Sent:** Sunday, March 20, 2011 11:33 PM  
**To:** OPA Resource  
**Subject:** WSJ inquiry on radiation numbers

OPA,

I write a column about numbers for the Wall Street Journal:

<http://blogs.wsj.com/numbersguy/>

In light of the nuclear plant's problems in Japan, I'm interested in writing a piece that explains aspects of radiation math, for instance:

The various units of radiation -- sieverts, rems, curies, grays, rads, etc. -- and the difference between what they measure, between radioactivity, absorbed dose, dose equivalent and exposure.

The difference between absolute readings and exposure over time.

How this is all measured, and how reliable it is.

How well the health effects are understood -- and does the risk increase linearly with exposure, or what is the relationship? How much does it differ by body weight, age, general health levels and other factors?

Is there someone with NRC who is available to answer questions about these sorts of issues, by phone or email?

Is there anyone else you'd suggest I contact?

Thanks,

Carl Bialik

[redacted]

R/83

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: US Boiling Water Reactors with Mark 1 Containments  
**Date:** Monday, March 21, 2011 9:05:00 AM

---

**From:** Pam Shallenberger (b)(6) Ex 6  
**Sent:** Sunday, March 20, 2011 9:49 PM  
**To:** OPA Resource  
**Subject:** US Boiling Water Reactors with Mark 1 Containments

Question:

Do all US Boiling Water Reactors with Mark 1 Containments have hard pipe vents from both the Suppression Pool, and Primary Containments to the Elevated Release Point so the Reactor Building will not accumulate hydrogen during venting .

R/84

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Nuclear waste  
**Date:** Monday, March 21, 2011 9:04:00 AM

---

**From:** Kerry [(b)(6)] Ex 6  
**Sent:** Sunday, March 20, 2011 6:42 PM  
**To:** OPA Resource  
**Subject:** Nuclear waste

Dear Sir(s),

When the waste material is stored underground, doesn't any of the radioactive waste leech into the ground, and if it does, can it contaminate the water table?

Thank you

[(b)(6)] Ex 6

R/85

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Fukushima disaster  
**Date:** Monday, March 21, 2011 9:04:00 AM

---

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

From: malcolm russell [(b)(6)] Ex 6  
Sent: Sunday, March 20, 2011 7:47 PM  
To: OPA Resource  
Subject: Fukushima disaster

I am a [(b)(6)]  
[(b)(6)] experience working on and studying both atomic-explosion and loss-of-coolant nuclear reactor mishaps, both accidental and deliberate. From my knowledge I would like to propose an out-of-the-ordinary approach to arresting the Fukushima disaster progression; as follows:

Don't try to cool with water any fuel material that has melted or overheated enough to cause a metal-water reaction (produces hydrogen and explosions). Instead, let it; melt without encountering any water, and dig (bore) its own deep grave in the earth's crust below (from where it came) via the China Syndrome. This could conceivably: reduce worker casualties, avoid risks of recriticality and hydrogen explosions, reduce environment radioactive contamination, and allow restoration of the power plant over the gravesite when confidence in nuclear power is restored.

I do not intend this to be a joke! The China Syndrome assumes the core melts and penetrates downward through; the reactor vessel, the reactor system containment barrier, the earth's crust, the planet's core (preposterous), and the opposite earth's crust to China (more preposterous). In the 1960's we used this notion in designing an experimental reactor for studying loss-of-coolant mishaps with core melting at the INL. I believe the China Syndrome has been underway at Plant #1 since last Saturday when the hydrogen explosion destroyed the reactor building. It was a clue that the reactor core had melted and found a source of water so the metal-water reaction could produce the hydrogen needed for the explosion. At TMI-2 about half the core melted, reacted with water, and the hydrogen explosion was absorbed inside the containment building. I have been unable to connect with anyone in the nuclear technology community to discuss this proposal and the "experts" being interviewed by the media haven't indicated sufficient understanding in my opinion. I feel like a Lone Ranger!

7/86

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Radiation Question  
**Date:** Monday, March 21, 2011 9:04:00 AM

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

**From:** (b)(6) Ex 6  
**Sent:** Sunday, March 20, 2011 7:17 PM  
**To:** OPA Resource  
**Subject:** Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) Ex 6 on Sunday, March 20, 2011 at 19:16:42

---

comments: (b)(6)  
(b)(6). Hope to learn in worst case scenario how safe will our family be (b)(6)  
(b)(6) Stated differently how many miles could harmful radiation extend to in worst case scenario (b)(6)  
(b)(6)  
(b)(6) [as the crow flies] from the reactor area

contactName: charles WIKLE

phone: (b)(6)

---

R/87

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Radiation Question  
**Date:** Monday, March 21, 2011 9:03:00 AM

---

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

From: (b)(6) ] Ex 6  
Sent: Sunday, March 20, 2011 6:15 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) ] Ex 6 on Sunday, March 20, 2011 at 18:14:53

---

comments: (b)(6)

(b)(6) Parents are now panicking and telling me they want to withdraw their child. They are afraid of radiation exposure repercussions from Japan's nuclear dilemma. This has grave consequences in that I pay huge penalties to the tour co. for cancellations and also I am unable to find student musician subs for their part in the orchestra. The rumors are spreading like wildfire. You are a credible source. Please issue a statement for me to email and text to parents so they do not panic and pull out at this time. Also supply an information email/line link.  
Best Regards,  
Bev Patton  
Executive Director  
Las Vegas Youth Orchestras

(b)(6) ] Ex 6  
or

friends@lvyo.org

(b)(6)

contactName: Bev Patton

phone: (b)(6)

---

7/88

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Nothing clean or renewable and terribly dirty and dangerous.  
**Date:** Monday, March 21, 2011 9:03:00 AM

---

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

**From:** Shelley Thoppil (b)(6) Ex 6  
**Sent:** Sunday, March 20, 2011 4:17 PM  
**To:** OPA Resource  
**Subject:** Nothing clean or renewable and terribly dirty and dangerous.

You want one in your back yard? I don't.

There are 23 operating and aging GE Mark I reactors in the United States. This is the same design that has failed so catastrophically at Fukushima.

Top safety officials at the Atomic Energy Commission and later the Nuclear Regulatory Commission have warned about the flaws of this reactor design for the past 40 years.

The flaws in this design are fundamental and cannot be fixed.

Americans should not live in peril due to flawed reactor designs. Taken together, all 23 of these reactors provide less than 4% of the nation's electricity. There is ample reserve capacity available.

These reactors must be permanently closed now. Please inform me of the actions you will take to ensure their permanent shutdown.

Shelley Thoppil

(b)(6) Ex 6

R/89

**From:** Janbergs, Holly  
**To:** Bonaccorso, Amy  
**Subject:** FW: Reactors  
**Date:** Monday, March 21, 2011 7:46:00 AM

---

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

**From:** (b)(6) ] Ex 6  
**Sent:** Sunday, March 20, 2011 3:41 PM  
**To:** OPA Resource  
**Subject:** Reactors

Dear Sirs,

Since we've seen a reactor canget too hot for people to enter  
Why not use a tracked robot like the army ese? It would have  
to be bigger and strengter to drar the hose in an could go over the  
rubble.  
Also the nozzle and as much of the robot should be made of Boron.

The vent one safly would require the construction of a filter.  
A large tank filled almosot to the top with water. The inlet wound be  
at the bottom,the  
water would cool the steam and should remove most of the radioactive  
elements.  
The outlet would have to be screened and have a fine pore filter.

I believe this would work on any reactor.

Sicerly,  
David Obrecht

(b)(6)

[Redacted signature block]

R/90

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:53 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** Public - question

Dennis Webb

(b)(6)

*Ex 6*

Re: Plants proposed in CO

Deanna Royer

*R/91*

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 2:07 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** Public - Question

Len Rooke

(b)(6)

Re: Any concerns with mail coming from Japan

Deanna Royer

R/92

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 2:15 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** public - comment

Lissa Weinmann

(b)(6) *[Handwritten signature]*

Re: VT Yankee Power Plant. Wants to voice her concern.

Deanna Royer

*R/93*

## Ghneim, Munira

---

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 2:56 PM  
**To:** Bonaccorso, Amy  
**Subject:** Betty Sincox - [redacted]

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Contact - Betty Sincox  
Phone - [redacted] ~~ETC~~  
Email - none

Request - would like to know if she can send [redacted] the Brita water filter and if it would help.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

4/6/11

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: inquiry to assist with NRC Comprehensive Safety Review  
**Date:** Monday, March 21, 2011 9:07:00 AM

---

**From:** LIA09 Hoc  
**Sent:** Monday, March 21, 2011 8:42 AM  
**To:** OPA Resource  
**Cc:** Jones, Cynthia  
**Subject:** inquiry to assist with NRC Comprehensive Safety Review

Cyndi Jones received a phone call from Reed Hodgins, (b)(6) who was offering his assistance to participate in the NRC Comprehensive Safety Review as a result of the events in Japan.

Mark Lombard  
Deputy Director, Liaison Team  
NRC Operations Center

R/95

**Ghneim, Munira**

---

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 4:27 PM  
**To:** Bonaccorso, Amy  
**Subject:** Kathleen Penberthy  Citizen with questions ~~Ex. 6~~

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Contact  Kathleen Penberthy ~~Ex. 6~~  
Phone  ~~Ex. 6~~  
Email  ~~Ex. 6~~  
Request – would like a list of who owns the plants.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/916

**Deavers, Ron**

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:19 PM  
**To:** Deavers, Ron  
**Subject:** RE: Public - question

I told this man our standard #1 and #3. It didn't have much effect – he was paranoid.

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:29 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** Public - question

Charles McClain  
(b)(6)

Re: When is plume going to be over Michigan?

Deanna Royer

R/97

**Deavers, Ron**

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 11:11 AM  
**To:** Couret, Ivonne  
**Cc:** Deavers, Ron  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

Ivonne:

I responded to this person and said that we are not responsible for fixing a CNN Web site, but thought I would forward to you anyway just in case you do mention this stuff to reporters, CNN employees, etc.

Thanks,

Amy

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

**From:** Debi Schmitt (b)(6)  
**Sent:** Sunday, March 20, 2011 9:16 PM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Debi Schmitt (b)(6) on Sunday, March 20, 2011 at 21:16:06

---

comments: A story was posted on line at Cnn.com. It is about 'How close do you live to a nuclear plant. I put in my zip code, (b)(6) It said I lived a mile away. This is incorrect information. This zip code is for (b)(6) I am more then a mile away. This needs to be corrected.

organization:

address1: (b)(6)

address2:

city: (b)(6)

state: (b)(6)

zip: (b)(6)

country: (b)(6)

phone:

---

R/98

**Deavers, Ron**

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 3:53 PM  
**To:** Deavers, Ron  
**Subject:** FW: Betty Sincox - son is in Japan

Referred to CDC and State.

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 2:56 PM  
**To:** Bonaccorso, Amy  
**Subject:** Betty Sincox (b)(6)

Contact - Betty Sincox  
Phone - (b)(6)  
Email - none

Request - would like to know if she can send (b)(6) the Brita water filter and if it would help.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

**Deavers, Ron**

---

**From:** Tobin, Jennifer  
**Sent:** Monday, March 21, 2011 3:56 PM  
**To:** Bonaccorso, Amy; Janbergs, Holly  
**Cc:** Deavers, Ron  
**Subject:** RE: Call

He had a lot of questions on the spent fuel pool at Unit 4 (the one that they've had trouble keeping covered) since the Chairman said it was dry in his statement to Congress last week. He wanted to know about the progression of filling the pool since then.

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

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 18, 2011 3:45 PM  
**To:** Tobin, Jennifer  
**Subject:** FW: Call

6 Sounds technical...

**From:** Shannon, Valerie  
**Sent:** Friday, March 18, 2011 3:41 PM  
**To:** Bonaccorso, Amy  
**Subject:** Call

Name: John Robbart  
From: (b)(6)  
Phone: (b)(6)  
E-mail: (b)(6)  
Re: Fuel Rods

**Shannon, Valerie**

---

**From:** OPA Resource  
**Sent:** Monday, March 21, 2011 7:27 AM  
**To:** 'Ivonne Couret'  
**Subject:** FW: media rsvp

---

**From:** Sandy Ciric [<mailto:Sandy.Ciric@gettyimages.com>]  
**Sent:** Sunday, March 20, 2011 7:46 PM  
**To:** OPA Resource  
**Subject:** media rsvp

Hello,

Getty Images would like to RSVP for staff photographer Mark Wilson to cover the public meeting of the NRC tomorrow, March 21.

Please advise if you need any more information and thank you for your assistance.

Best Regards,  
Sandy

Sandy Ciric  
Managing Editor  
Getty Images News  
tel 646 613 3739  
fax 646 613 3784

(mobile (b)(6) ) Ex6  
<http://editorial.gettyimages.com>  
[sandy.ciric@gettyimages.com](mailto:sandy.ciric@gettyimages.com)

 please consider the environment before printing this email

R/101

**Deavers, Ron**

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 9:17 AM  
**To:** Deavers, Ron  
**Subject:** FW: REPLY: Radiation Question

Forgot to cc/bcc

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

From: Bonaccorso, Amy  
Sent: Monday, March 21, 2011 9:16 AM  
To: (b)(6) G  
Subject: REPLY: Radiation Question

Good morning:

We understand that the situation in Japan is causing people in the U.S. to have concerns. The NRC continues to monitor information regarding wind patterns near the Japanese nuclear power plants. Nevertheless, given the distance between Japan and the U.S. (including Hawaii and Alaska), we are not expected to experience any harmful levels of radiation. The EPA has publicly started its agreement with NRC's assessment. At this time, the NRC does not believe protective measures are necessary in the U.S.

This web site has a collection of information and updates that you may be interested in:  
<http://www.nrc.gov/japan/japan-info.html>

6 Also, the CDC is accepting calls from the public about health: 1-800-CDC-INFO.

Thank you,

Amy

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

From: (b)(6) Ex 6  
Sent: Friday, March 18, 2011 5:18 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) Ex 6 on Friday, March 18, 2011 at 17:18:16

---

comments: What are the dangers of/odds of plutonium emitted from Fukushima reaching US shores? My understanding is that even a miniscule amount would likely result in development of lung cancer within 18-20 years -- therefore when I read that radiation reaching US shores will be "minimal," it's of very little comfort if that radiation is from Plutonium / MOX.

contactName: L. Adam

phone:

---

R/102

## Ghneim, Munira

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**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 9:29 AM  
**To:** Couret, Ivonne  
**Subject:** Alison Mcook - Everyday Health - (everydayhealth.com)

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Organization - Everyday Health

Contact - Alison Mcook

Phone - 215-389-1818 ~~1818~~

Email - (b)(6) Ex6

Request - She would like to speak to someone regarding the article she is writing about what NRC has done to reassure the public (she said our site was very informative). Alison would like to ask some questions about the health of the people living near nuclear power plants.

Her deadline is noon tomorrow and she leaves at 3pm today

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/103

## Ghneim, Munira

---

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 11:16 AM  
**To:** Couret, Ivonne  
**Subject:** Jason Clenfield - Bloomberg -Tokyo

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Organization - Bloomberg -Tokyo

Contact - Jason Clenfield

Phone - 813-32012484 or

(b)(6)

JRAG

Email - [jclenfield@bloomberg.net](mailto:jclenfield@bloomberg.net)

Request - He would like information on where to find documents on two plants in the United States (Oconee station and Fort Calhoun). He stated that the U.S. Geological survey revised the estimate of flood volume and these two stations immediately raised the walls around the site. He heard that NRC told them to do this immediately. Could you direct him on where to find this specific information?

He needs the information as soon as possible

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/104

Ghneim, Munira

---

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 12:05 PM  
**To:** Couret, Ivonne  
**Subject:** Eartha Melzer -Michigan Messenger

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Organization – Michigan Messenger

Contact – Eartha Melzer

Phone – 231-342-7796 ~~EX6~~

Email – (b)(6) EX6

Request – The March 16<sup>th</sup> press release stated that the average American receives 600 milirems of background radiation a year. Has there been a change. What is the history level of background exposure?

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/1105

Ghneim, Munira

---

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 2:10 PM  
**To:** Bonaccorso, Amy  
**Subject:** Citizen request for information

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Contact - Alam Davis

Phone (b)(6)  
Email [redacted] Ex 6

Request - Would like the listing of the design power rating for the core.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/106

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 2:10 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Comment

David Armillie

(b)(6)

Ex 6

Re: The power plant in CA. He doesn't want it there and needs to know who to talk to.

Deanna Royer

R/107

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Bcc:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RE: The NRC is Negligent in Performing its Duties  
**Date:** Tuesday, March 22, 2011 12:38:00 PM

---

Dear Mr. Bydalek,  
Thank you for expressing your interest. The United States uses Independent Spent Fuel Storage Installations (ISFSIs) to store the spent fuel rods once they are taken from the spent fuel pools (spent fuel often does an initial cooling for 3-5 years before being packaged and sent to the onsite ISFSI). There is currently not a place to store commercial high level waste since the Yucca Mountain project has been put on hold. Therefore, there is currently not an alternate location to store the spent fuel. Our website [www.nrc.gov](http://www.nrc.gov) and has a wealth of information on it about spent fuel, among other things. I hope that addresses your concern.

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

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

**From:** (b)(6)  
**Sent:** Friday, March 18, 2011 8:57 PM  
**To:** NRC Allegation  
**Subject:** The NRC is Negligent in Performing its Duties

U.S. pools are storing much more spent fuel than the ones in Fukushima and are currently holding, on the average, four times more than their design intended

Why is that NRC ?

Are you asleep at the switch too, just as TEPCO apparently was ?

YOU NEED TO PAY MORE ATTENTION TO RISKS AT OPEN-AIR STORAGE POOLS !

Why have you ignored this ?

Why did you try to prevent the publication of a study of this issue completed by the National Academy of Sciences ?

I want transparency, not complacency.

God help us,

Chris Bydalek  
(b)(6)

R/1108

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Bcc:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RE: Citizen request for Information  
**Date:** Tuesday, March 22, 2011 1:19:00 PM

---

Dear Mr. Davis,  
Thank you for your inquiry. In the U.S., the design power rating for the core is very plant specific. Licensees configure their cores differently to address their needs and that information is proprietary. However, the licensee must meet the NRC safety standards which is verified by inspection. I hope that this addresses your concern.

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

---

**From:** Ghneim, Munira  
**Sent:** Monday, March 21, 2011 2:10 PM  
**To:** Bonaccorso, Amy  
**Subject:** Citizen request for information

Contact – Alam Davis

Phone (b)(6)

Email (b)(6)

Request – Would like the listing of the design power rating for the core.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/109

**From:** Tobin, Jennifer  
**To:** Bonaccorso, Amy  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Tuesday, March 22, 2011 2:21:00 PM

---

I would refer him to Radnet although it sounds kind of like he already has his mind made up and wouldn't listen to any feedback. Good luck chatting with him!

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

---

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

R/110

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Bcc:** Bonaccorso, Amy  
**Subject:** RE: So, what happens to the nuks now in Japan if there is another tsunami due to a large off shore aftershock?  
Maybe ...  
**Date:** Tuesday, March 22, 2011 12:19:00 PM

---

Dear J.,

Thank you for your comment. The world experts are currently assisting the Japanese government, as requested, to mitigate the events at the nuclear reactors in Japan. The weather is unpredictable but the NRC is working with our counterpart for the safe and secure treatment of the damaged plants. I hope that addresses your question.

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

---

**From:** J K (b)(6)  
**Sent:** Monday, March 21, 2011 4:00 AM  
**To:** NRC Allegation  
**Subject:** So, what happens to the nuks now in Japan if there is another tsunami due to a large off shore aftershock? Maybe ...

So, what happens to the nuks now in Japan if there is another tsunami due to a large off shore aftershock?

Maybe we should be advising them to have a flood protected generator and switchgear?

J

R/1111

**From:** Tobin, Jennifer  
**To:** Bonaccorso, Amy  
**Cc:** Deavers, Ron  
**Subject:** RE: public - Question  
**Date:** Tuesday, March 22, 2011 3:10:00 PM

---

Waiting for a call back (if he still has the question).

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

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 2:36 PM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: public - Question

Jenny:

Can you answer this question? Or do we need to refer it?

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Monday, March 21, 2011 1:49 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** public - Question

Michael Grady

(b)(6)

Deanna Royer

R/112

**From:** Tobin, Jennifer  
**To:** msmcgough@me.com  
**Bcc:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RE: Radiation Question  
**Date:** Tuesday, March 22, 2011 4:30:00 PM

---

Dear Mr. McGough,  
Thank you for your inquiry. Guidance on the source term that we use for modeling purposes can be found in NUREG-1465 (<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1465/>) We then use computer codes to model the data and NRC staff uses that information to make protective action recommendations (such as evacuation or sheltering in place) for the emergency situation. The decision to evacuate is actually made by the State or local government. I hope you find this information helpful.

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

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

From: (b)(6)  
Sent: Monday, March 21, 2011 7:03 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) on Monday, March 21, 2011 at 19:02:42

---

comments: can you please direct me to the modeling basis for determining the evacuation zone after a nuclear accident? Thanks

contactName: Michael S. McGough

phone: (b)(6)

---

R/113

**From:** McIntyre, David  
**To:** Deavers, Ron; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Tuesday, March 22, 2011 5:14:55 PM

---

Thanks!

**From:** Deavers, Ron  
**Sent:** Tuesday, March 22, 2011 5:02 PM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I will coordinate with Amy and then give the guy a call.

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

**NEWS MEDIA CONTACT FOR EPA:**

[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

EPA's RadNet data is online, though not particularly readable. This page explains that EPA does indeed monitor for radiation and gives a link to RadNet:

<http://www.epa.gov/radiation/rert/monitoring.html>

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

R/114

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers.  
An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**From:** Bonaccorso, Amy  
**To:** Janbergs, Holly  
**Subject:** RE: Response from "Contact the NRC Web Site Staff"  
**Date:** Tuesday, March 22, 2011 9:19:17 AM

---

Thanks!

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

From: Janbergs, Holly  
Sent: Tuesday, March 22, 2011 9:19 AM  
To: Bonaccorso, Amy  
Subject: RE: Response from "Contact the NRC Web Site Staff"

I would just tell him we're working on lessons learned and we'll be doing a review, etc.

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

From: Bonaccorso, Amy  
Sent: Tuesday, March 22, 2011 9:18 AM  
To: Janbergs, Holly  
Subject: FW: Response from "Contact the NRC Web Site Staff"

Would you refer this guy to his Congress people?

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

From: Janbergs, Holly On Behalf Of OPA Resource  
Sent: Monday, March 21, 2011 4:50 PM  
To: Bonaccorso, Amy  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: NRCWEB Resource  
Sent: Monday, March 21, 2011 4:47 PM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: Edward (b)(6) ] Ex 6  
Sent: Monday, March 21, 2011 4:29 PM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Edward (b)(6) ] Ex 6 on Monday, March 21, 2011 at 16:29:03  
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comments: Dear "expert,"

I am not one of those Americans who believe in Creationism or any religion, for that matter. But, I have even less faith in your industry's ability to police itself properly.

Despite what Mr. Borchhardt states in today's New York Times, it's clear to the American public that safety standards are not sufficient in the US regarding this dangerous category of energy development.

R/115

There are spent fuel rods stored similarly to what the Japanese have done, not to mention the absurd proximity of the plant near NYC. This is unacceptable!

Somehow the priorities between risk of human well-being and a pragmatic approach to managing this risky industry have gotten reversed. There should be no profit margin whatsoever for any industry involving a substance as dangerous as radioactive material, let alone the current leanings towards viewing this Pandora's Box of problems as an economical solution to our energy needs.

As educated people, you have the responsibility to protect an acutely conservative disposition about the use of nuclear energy. Clearly, our definition of what is safe has **MUST** change after Fukushima, which is what's so particularly distressing about Borchhart's misguided assessment today.

Look up the work of combustion expert Bernard Lewis and then please re-assess your conclusions as to what constitutes safety in the nuclear energy industry today, because the Japanese were saying the very same things as you before this accident happened to them. Need a true scientist understand anything further to change his ways?

organization:

address1:

address2:

city:

state:

zip:

country:

phone:

-----

Ex b

**From:** [Janbergs, Holly](#)  
**To:** [Burnell, Scott](#)  
**Bcc:** [Medina, Veronika](#)  
**Subject:** FW: Media - Everyday Health - Interview  
**Date:** Tuesday, March 22, 2011 9:07:00 AM

---

**From:** Royer, Deanna  
**Sent:** Tuesday, March 22, 2011 9:06 AM  
**To:** Janbergs, Holly  
**Subject:** Media - Everyday Health - Interview

Alison McCook  
Everyday Health

(b)(6)

Ex 6

(b)(6)

Re: Interview – She has a 12:00 deadline today  
Nuclear plants in a new light. What you don't need to worry about and how you can  
prepare

Deanna Royer

R/116

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: A Question  
**Date:** Tuesday, March 22, 2011 8:59:00 AM

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**From:** Timothy Young (b)(6) Ex 6  
**Sent:** Tuesday, March 22, 2011 8:57 AM  
**To:** OPA Resource  
**Subject:** A Question

The U.S. Nuclear Regulatory Commission,

I read an article that the U.N.'s International Atomic Energy Agency knows of 88 nuclear plants that are located in seismically active areas worldwide.

Does the U.S. Nuclear Regulatory Commission know how many of these reactors are located within the United States, which could be subjected to the run-up of a tsunami, and could the NRC provide their locations or the name of these reactors? The article which I read mentioned the San Onofre and the Diablo Canyon plants both in California.

Thanks for your assistance.

Sincerely,  
Tim Young

B/117

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact Us about Public Meetings on Nuclear Security and Safeguards;  
**Date:** Tuesday, March 22, 2011 8:36:00 AM

---

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

**From:** NSIR\_WebServices Resource  
**Sent:** Tuesday, March 22, 2011 8:29 AM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact Us about Public Meetings on Nuclear Security and Safeguards;

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

**From:** (b)(6) ] Ex 6  
**Sent:** Monday, March 21, 2011 4:32 PM  
**To:** NSIR\_WebServices Resource  
**Subject:** Response from "Contact Us about Public Meetings on Nuclear Security and Safeguards;

Below is the result of your feedback form. It was submitted by

(b)(6) ] Ex 6  
on Monday, March 21, 2011 at 16:31:40

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comments: I am watching your press conference regarding the nuclear disaster in Japan on C-Span. Given the obvious facts of the disaster, and given that the nuclear power plant in my area (b)(6) was built to withstand only a 7.0 earthquake and a tsunami wave of only 25 feet, your claims that nuclear power in the U.S. is safe, comes across as pure group-think idiocy. What is the matter with you? Nuclear power has been proven, by this disaster, as UNSAFE ANYWHERE IN THE WORLD, BUT ESPECIALLY WHERE BUILT ON EARTHQUAKE FAULTS, AS THE ONE WHERE I LIVE HAS BEEN BUILT. Nuclear power must be phased out. If that isn't obvious to you now, what will it take to convince you? Wake up!

name: Laurie Menard

organization:

address1: (b)(6)  
address2:  
city: (b)(6)  
state: (b)(6)  
zip: (b)(6)  
country: (b)(6)  
phone: (b)(6)

Ex 6

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R/118

**From:** [Janbergs, Holly](#)  
**To:** [Medina, Veronika](#)  
**Subject:** FW: Media - Question  
**Date:** Tuesday, March 22, 2011 8:20:00 AM

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For filing; sent to RI

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**From:** Royer, Deanna  
**Sent:** Tuesday, March 22, 2011 8:11 AM  
**To:** Janbergs, Holly  
**Subject:** Media - Question

Meredith Orban  
Fox News

(b)(6) cell  
[Meredith.orban@foxnews.com](mailto:Meredith.orban@foxnews.com)  
Re: Indian Point meeting today

Deanna Royer

R/1119

**From:** Janbergs, Holly  
**To:** Medina, Veronika  
**Subject:** FW: Atlanta Journal-Constitution reader question for Ivonne  
**Date:** Tuesday, March 22, 2011 8:20:00 AM

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For filing; answered

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**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Tuesday, March 22, 2011 7:32 AM  
**To:** McIntyre, David  
**Subject:** FW: Atlanta Journal-Constitution reader question for Ivonne

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**From:** Theresa Giarrusso (b)(6) Ex 6  
**Sent:** Monday, March 21, 2011 5:07 PM  
**To:** OPA Resource  
**Subject:** Atlanta Journal-Constitution reader question for Ivonne

Dear Ivonne -- My name is Theresa Walsh Giarrusso and I am researching reader questions for The Atlanta Journal-Constitution. We had a question from a reader about what magnitude of earthquake U.S. nuclear facilities are prepared to withstand. The reader specifically asks about Georgia nuclear facilities but I would like to add to that question: Is the standard the same for all U.S. nuclear plants or would it vary based on how likely an earthquake is.

I am happy to work with you via email or phone, although we find email works best to get concise answers. We would love to have an answer by Wednesday or Thursday but we are always happy to take an answer. Thanks so much for your help.

Theresa Walsh Giarrusso

(b)(6) Ex 6  
(b)(6) (cell)

here is the reader's question:

I understand that the experts say that the chances are low that  
>Georgia, near the Charleston fault, would ever get an earthquake over  
>a magnitude of 6. I wonder what level of earthquake magnitude  
>Georgia's nuclear plants were designed to withstand?  
Tim Conner, and my city of residence is (b)(6)

R/120

**From:** Janbergs, Holly  
**To:** Screnci, Diane  
**Subject:** FW: Media - Question  
**Date:** Tuesday, March 22, 2011 8:14:00 AM

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**From:** Royer, Deanna  
**Sent:** Tuesday, March 22, 2011 8:11 AM  
**To:** Janbergs, Holly  
**Subject:** Media - Question

Meredith Orban

Fox News

(b)(6)

Ex 6

[Meredith.orban@foxnews.com](mailto:Meredith.orban@foxnews.com)

Re: Indian Point meeting today

Deanna Royer

R/121

**From:** McIntyre, David  
**To:** OPA Resource; (b)(6) Ex 6  
**Cc:** Janbergs, Holly; Couret, Ivonne  
**Subject:** RE: Atlanta Journal-Constitution reader question for Ivonne  
**Date:** Tuesday, March 22, 2011 8:04:31 AM

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Hi Theresa -

There is plenty of information on seismic standards for US nuclear plants on our website, following the Japan information link under Key Topics. Look especially for the main Qs and As, the "Can it happen here?" and the fact sheet on seismic issues. The short answer is that US plants are not designed to a "one size fits all" standard but according to the geology of the area and the specific site. Also, the standards are not based on magnitude of an earthquake, but ground movement, which is a function of magnitude and distance from the epicenter. So we urge folks not to think in terms of "Can the plant withstand a 9.0 earthquake?" The question - and of course the answer - is not so simple.

Regards,

**David McIntyre**  
*Office of Public Affairs*  
*U.S. Nuclear Regulatory Commission*  
*(301) 415-8200*

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**From:** Theresa Giarrusso (b)(6) Ex 6  
**Sent:** Monday, March 21, 2011 5:07 PM  
**To:** OPA Resource  
**Subject:** Atlanta Journal-Constitution reader question for Ivonne

Dear Ivonne -- My name is Theresa Walsh Giarrusso and I am researching reader questions for The Atlanta Journal-Constitution. We had a question from a reader about what magnitude of earthquake U.S. nuclear facilities are prepared to withstand. The reader specifically asks about Georgia nuclear facilities but I would like to add to that question: Is the standard the same for all U.S. nuclear plants or would it vary based on how likely an earthquake is.

I am happy to work with you via email or phone, although we find email works best to get concise answers. We would love to have an answer by Wednesday or Thursday but we are always happy to take an answer. Thanks so much for your help.

Theresa Walsh Giarrusso  
(b)(6) Ex 6  
(b)(6) (cell)

here is the reader's question:

I understand that the experts say that the chances are low that

R/122

>Georgia, near the Charleston fault, would ever get an earthquake over  
>a magnitude of 6. I wonder what level of earthquake magnitude  
>Georgia's nuclear plants were designed to withstand?  
Tim Conner, and my city of residence is (b)(6)

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Harrington, Holly  
**Subject:** FW: Request for interview in Japan for NHK World TV  
**Date:** Tuesday, March 22, 2011 7:36:00 AM

---

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

**From:** Natsu KAWAKAMI [<mailto:kawakami-n@intl.nhk.or.jp>]  
**Sent:** Tuesday, March 22, 2011 5:28 AM  
**To:** OPA Resource  
**Cc:** ICHIYA, Y.  
**Subject:** Request for interview in Japan for NHK World TV

Dear Mr. Eliot Brenner, Office of Public Affairs:

First, I'd like to thank the NRC for its collaboration with the Japanese government.

I have contacted the US embassy in Tokyo earlier today, regarding an interview with one of the NRC nuclear experts sent to Japan as members of USAID team.

The interview will be shown on the English news broadcast provided by Japan Broadcasting Corporation (more commonly known as NHK) throughout the world.

The US embassy press office confirmed that they sent our request to the appropriate person, even though I wasn't given a name. I'm sending this message to you, hoping that you could perhaps contact your specialists or international affairs person in Japan, in case they are unable to respond to us.

Whom we would like to interview is unknown yet, since we don't have any information such as names or background of the NRC experts. (Perhaps you could advise us on that, as well.)

As the nuclear reactors at the Fukushima Daiichi plant continue to draw global attention, we feel it's very important to have experts' opinion and analysis on this matter in English for viewers outside Japan.

We would really appreciate your help in arranging the interview.

Details of our request follow:

Program title: Newslines, NHK World TV  
<http://www3.nhk.or.jp/nhkworld/>

Broadcast date: Depending on availability of NRC expert, live or videotaped

Date of interview: Depending on availability of NRC expert

Place of interview: NHK in Tokyo or any other place which is convenient

Interview content:

- Activities conducted by NRC experts in Japan
- Assessment on measures taken by TEPCO/Japanese government
- Etc.

Executive Producer: Yoshihiko Ichiya

I'd also like to know about the NRC team in Japan lead by Mr. Charles A. Casto.

R/123

- Are all of the team members in Tokyo?
- Does any of them plan to visit the Fukushima plant?
- How long do they plan to stay in Japan?

Thank you for baring with this lengthy email.

Please let us know if such arrangement is possible, and feel free to contact me if you need further information on the program. I look forward to hearing from you.

Best regards,

Natsu Kawakami  
Producer, Newslite  
cc: Yoshihiko Ichiya

NHK World TV  
2-2-1 Jinnan, Shibuya-ku, Tokyo 150-8001  
phone: +81-3-5455-5079 fax: +81-3-3465-1151  
mobile: (b)(6) Ex 6  
email: kawakami-n@intl.nhk.or.jp

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Tuesday, March 22, 2011 7:31:00 AM

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

**From:** NRCWEB Resource  
**Sent:** Tuesday, March 22, 2011 6:26 AM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** Kent Wooldridge [redacted] Ex 6  
**Sent:** Tuesday, March 22, 2011 2:01 AM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Kent Wooldridge [redacted] Ex 6 on Tuesday, March 22, 2011 at 02:01:16

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comments: First, your website is clearly comment unfriendly. This is just one more of the items that tend to give your employers, the public, an unpleasant feeling about your office. But in the unlikely event that you do not just delete this unread, here are suggestions for reactor design. We see the Japanese futilely squirting seawater over the wrecked reactor buildings and letting the runoff go everywhere. What would be so difficult in demanding that reactor buildings have protected fire dept connections at street level with fixed nozzles INSIDE the complex so that if all else failed, reactors could be cooled better from the outside? And if the reactor room drained into a dry sump directly below it, there would be less uncontrolled contaminated runoff. And in the even of the feared China syndrome, the melting core would fall INTO the water filled wet sump, thus adding to the cooling effort. In CA, commercial and residential buildings HAVE to have outside fixtures which lead to fixed mount inside sprinklers. If the Japanese had those, they would look a lot smarter now.

organization: Unhappy public

[redacted] Ex 6

address1: [redacted]  
address2:  
city: [redacted]  
state: [redacted]  
zip: [redacted]  
country: [redacted]  
phone: [redacted]

---

7/124

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Live in Alaska concern about Japan's accident  
**Date:** Tuesday, March 22, 2011 7:30:00 AM

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

**From:** tkouzes [redacted] Ex 6  
**Sent:** Tuesday, March 22, 2011 12:18 AM  
**To:** OPA Resource  
**Subject:** Live in Alaska concern about Japan's accident

I live in [redacted] and I am concern about radioactive fallout from Japan, especially if Japan loses control of all six reactors. Will this not affect the entire oceanic and land food chain and water supply of Alaska. Even if radioactive materials are heavier than most substances and will sink into the ocean. These substances will affect the plant life and ocean life forms that the are in the ocean at the DNA levels. If these substances are on land masses especially in the lowest life forms from insects, plants, avian, small mammals, but most of all at the microscopic lifeforms especially mutations of diseases and basic forms of life.

I think we are going to face a world wide situation where hundreds of millions will die from the result of this epic disaster in Japan in the long run if this situation does come under some form of control.

Thank You.

Tom Kouzes

[redacted]

R/125

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Use of Robots  
**Date:** Tuesday, March 22, 2011 7:29:00 AM

---

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

From: David Lord [redacted] ] Ex 6  
Sent: Monday, March 21, 2011 9:48 PM  
To: OPA Resource  
Subject: Use of Robots

Since Japan is a leader in robot technology - why aren't they using robots to help the situation - visual monitoring, radiation measuring, thermal imaging, remote water spraying? I would also seem that robots could also be used for more complex operation.

David Lord

[redacted]  
(b)(6)

R/126

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Question about reactor disaster preparation  
**Date:** Tuesday, March 22, 2011 7:29:00 AM

---

**From:** Roger Ison [redacted] Ex 6  
**Sent:** Monday, March 21, 2011 9:50 PM  
**To:** OPA Resource  
**Subject:** Question about reactor disaster preparation

I hope this is the appropriate method to ask a question I want to pose.

It seems apparent to me that while designers have done everything they could think of to make reactors able to survive various kinds of failures, the engineering of these machines has not provided adequately for access AFTER a catastrophe. And I'd like to ask if the same is true of more modern reactor facilities.

I will use Fukushima as an example, but I am not proposing solutions to the Japanese problem - I'm trying to make a clear point about reactor facility design.

For example, the Japanese had to cut through a cement wall in order to connect external power. There could have been externally accessible contacts for this purpose in case of emergency. There could even have been pre-laid cables extending some distance away.

Likewise the control rooms. There seems to be, at least at the Fukushima plant, no provision for remote access to the instrumentation and control circuits. They can't see what's going on in the reactor at least in part because the control rooms are too "hot", or so it has been reported. Why no remote access?

At Fukushima it has been too dangerous for helicopters to hover over the plant to drop water. But if there had been cables strung overhead when the plant was built, it would have been possible to pull a fire hose out by means of pulleys and spray water directly downward. Why was there no provision of this sort - if not exactly this, why not something, in any case? Why not have embedded pipes through the concrete and then upward, for emergency use?

R/127

In the worst case, if a reactor had to be buried, it would be helpful to have very tall concrete walls surrounding the entire facility. Such walls could form sort of "mold" into which to pour sand and concrete for the funeral if entombment were necessary. They're not pretty but they'd work.

I'm sure you can think of many other provisions of this sort. Do modern reactors have these features? If not, why not?

Thanks

Roger Ison

(b)(6)

Ex 6

**From:** McIntyre, David  
**To:** Deavers, Ron; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Tuesday, March 22, 2011 5:14:55 PM

---

Thanks!

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**From:** Deavers, Ron  
**Sent:** Tuesday, March 22, 2011 5:02 PM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I will coordinate with Amy and then give the guy a call.

---

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

**NEWS MEDIA CONTACT FOR EPA:**

[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

EPA's RadNet data is online, though not particularly readable. This page explains that EPA does indeed monitor for radiation and gives a link to RadNet:

<http://www.epa.gov/radiation/rert/monitoring.html>

---

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

R/128

I have his name and number and he wants a call back.

He says other agencies are sending him here...saying we have numbers.  
An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**From:** Deavers, Ron  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Tuesday, March 22, 2011 5:01:43 PM

---

I will coordinate with Amy and then give the guy a call.

---

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

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[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

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<http://www.epa.gov/radiation/rert/monitoring.html>

---

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

R/129

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

*NRK*

**From:** Nelson, Robert  
**To:** Roberts, Darrell; Lara, Julio; Kennedy, Kriss; Croteau, Rick; LIA06 Hoc; Dickson, Billy; Wilson, George; Westreich, Barry; Thomas, Eric; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Ferrell, Kimberly; Galloway, Melanie; Gitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Quay, Theodore; Ruland, William; Skeen, David; Thomas, Brian; Broaddus, Doug; Campbell, Stephen; Carlson, Robert; Chernoff, Harold; Kulesa, Gloria; Markley, Michael; Pascarelli, Robert; Salgado, Nancy; Simms, Sophonia; Wall, Scott  
**Cc:** West, Steven; Shear, Gary; Hay, Michael; Meighan, Sean; Nauven, Quynh; Oesterle, Eric; Thomas, Eric; Chernoff, Harold; Miller, Ed  
**Subject:** FYI: OBE, SSE, maximum flooding level, and protection level for each operating reactor site  
**Date:** Tuesday, March 22, 2011 12:17:11 PM  
**Attachments:** [Plant OBE+SSE+Flood Levels.pdf](#)  
[image001.png](#)

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All:

The attached pdf file provides a table of OBE, SSE, maximum flooding level, and protection level for each operating reactor site. This table consolidates information from the plant FSARs. This table is primarily intended for internal use by NRC staff. This information is deemed reliable, but has not been independently validated by the licensees.

The values for maximum flooding level represent the highest level for the site without regard to the source (e.g., riverine, hurricane, or tsunami). Where tidal and wave run-up influences are described in the FSAR these values have been combined with other projections to derive a maximum flood level. It should also be noted that this table only reflects external flooding sources.

In a similar fashion the protection level reflects FSAR descriptions of the lowest level at which safety-related equipment is protected. The margin column provides the simple arithmetic difference between the maximum flooding level and the protection level columns. The comments column provides important information such as instances where watertight doors are significantly relied on for safety-related equipment protection.

Please direct any questions or corrections to:

[Harold.Chernoff@nrc.gov](mailto:Harold.Chernoff@nrc.gov)

*R.A. Nelson*

Robert A. Nelson  
Deputy Director  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation



E-mail: [robert.nelson@nrc.gov](mailto:robert.nelson@nrc.gov) | Office: (301) 415-1453 |

(b)(6)

Fax: (301) 415-2102

*R/130*

Note: Information in this table reflects FSAR information and is deemed reliable, but not licensee verified.

Plant	Region	OBE (g)	SSE (g)	Max Flooding Level (ft)	Protection Level (ft)	Margin (ft)	Comments
Arkansas Nuclear One, Unit 1	4	0.100	0.200	30.0	30.0	0.0	
Beaver Valley Power Station, Unit 1	1	0.060	0.130	730.0	730.0	0.0	
Braidwood Station, Unit 1	3	0.090	0.200	598.2	601.0	2.8	
Browns Ferry Nuclear Plant, Unit 1	2	0.100	0.200	572.5	572.5	0.0	No anticipated flood problems to equipment
Brunswick Steam Electric Plant, Unit 1	2	0.030	0.160	25.6	26.1	0.5	Protected with doors
Byron Station, Unit 1	3	0.090	0.200	703.4	706.0	2.6	
Callaway Plant	4	0.120	0.200	840.3	840.5	0.3	
Calvert Cliffs Nuclear Power Plant, Unit 1	1	0.080	0.150	27.1	28.5	1.4	
Catawba Nuclear Station, Unit 1	2	0.080	0.150	592.4	593.5	1.1	
Clinton Power Station, Unit 1	3	0.100	0.250	708.9	708.9	0.0	
Columbia Generating Station, Unit 2	4	0.125	0.250	433.3	435.0	1.7	
Comanche Peak Steam Electric Station, Unit 1	4	0.060	0.120	789.7	810.0	20.3	
Cooper Nuclear Station	4	0.100	0.200	903.0	903.0	0.0	
Crystal River Nuclear Generating Plant, Unit 3	2	0.025	0.050	127.0	127.0	0.0	Protected with doors
Davis-Besse Nuclear Power Station, Unit 1	3	0.080	0.150	583.7	583.7	0.0	
Diablo Canyon Nuclear Power Plant, Unit 1	4	0.200	0.400	34.6	48.0	13.4	Protected with doors
Donald C. Cook Nuclear Power Plant, Unit 1	3	0.100	0.200	594.6	594.6	0.0	Safety Equipment has been raised
Dresden Nuclear Power Station, Unit 2	3	0.100	0.200	528.0	528.0	0.0	
Duane Arnold Energy Center	3	0.060	0.120	764.1	769.0	4.9	
Edwin I. Hatch Nuclear Plant, Unit 1	2	0.080	0.150	108.3	129.5	21.2	
Fermi, Unit 2	3	0.080	0.150	577.3	583.0	5.7	
Fort Calhoun Station, Unit 1	4	0.080	0.170	1014.0	1014.0	0.0	From 1009.5' to 1014' with sandbags as needed
Grand Gulf Nuclear Station, Unit 1	4	0.075	0.150	103.0	132.5	29.5	
H. B. Robinson Steam Electric Plant, Unit 2	2	0.100	0.200	N/A	N/A	N/A	flooding is physically impossible
Hope Creek Generating Station, Unit 1	1	0.100	0.200	35.4	35.4	0.0	Protected with doors
Indian Point Nuclear Generating, Unit 2	1	0.100	0.150	15.0	15.3	0.3	
James A. FitzPatrick Nuclear Power Plant	1	0.080	0.150	255.0	255.0	0.0	

Note: Information in this table reflects FSAR information and is deemed reliable, but not licensee verified.

Plant	Region	OBE (g)	SSE (g)	Max Flooding Level (ft)	Protection Level (ft)	Margin (ft)	Comments
Joseph M. Farley Nuclear Plant, Unit 1	2	0.050	0.100	153.7	154.5	0.8	
Kewaunee Power Station	3	0.060	0.120	589.9	592.5	2.6	
LaSalle County Station, Unit 1	3	0.100	0.200	705.7	710.5	4.8	
Limerick Generating Station, Unit 1	1	0.075	0.150	207.0	214.0	7.0	
McGuire Nuclear Station, Unit 1	2	0.080	0.150	774.8	774.8	0.0	
Millstone Power Station, Unit 2	1	0.090	0.170	18.0	22.0	4.0	
Monticello Nuclear Generating Plant, Unit 1	3	0.060	0.120	939.2	940.0	0.8	
Nine Mile Point Nuclear Station, Unit 1	1	0.060	0.110	254.0	261.0	7.0	
Nine Mile Point Nuclear Station, Unit 2	1	0.075	0.150	254.0	261.0	7.0	
North Anna Power Station, Unit 1	2	0.090	0.180	267.3	271.0	3.7	
Oconee Nuclear Station, Unit 1	2	0.050	0.150	672.0	796.5	124.5	
Oyster Creek Nuclear Generating Station, Unit 1	1	0.092	0.184	23.5	23.5	0.0	
Palisades Nuclear Plant	3	0.100	0.200	594.1	594.4	0.3	
Palo Verde Nuclear Generating Station, Unit 1	4	0.100	0.200	949.5	951.0	1.5	
Peach Bottom Atomic Power Station, Unit 2	1	0.050	0.120	134.7	135.7	1.0	
Perry Nuclear Power Plant, Unit 1	3	0.080	0.150	620.5	620.5	0.0	
Pilgrim Nuclear Power Station	1	0.080	0.150	18.3	18.3	0.0	
Point Beach Nuclear Plant, Unit 1	3	0.060	0.120	588.6	589.2	0.6	
Prairie Island Nuclear Generating Plant, Unit 1	3	0.060	0.120	706.7	706.7	0.0	
Quad Cities Nuclear Power Station, Unit 1	3	0.120	0.240	589.0	603.0	14.0	
R.E. Ginna Nuclear Power Plant	1	0.080	0.200	273.8	273.8	0.0	
River Bend Station, Unit 1	4	0.050	0.100	54.5	97.5	43.0	
Salem Nuclear Generating Station, Unit 1	1	0.100	0.200	31.4	31.4	0.0	
San Onofre Nuclear Generating Station, Unit 2	4	0.340	0.670	31.0	31.0	0.0	Protected with doors
Seabrook Station, Unit 1	1	0.125	0.250	20.7	21.0	0.3	
Sequoyah Nuclear Plant, Unit 1	2	0.090	0.180	722.0	722.0	0.0	Comp Measures in place to protect equipment
Shearon Harris Nuclear Power Plant, Unit 1	2	0.075	0.150	261.0	261.0	0.0	

Note: Information in this table reflects FSAR information and is deemed reliable, but not licensee verified.

Plant	Region	OBE (g)	SSE (g)	Max Flooding Level (ft)	Protection Level (ft)	Margin (ft)	Comments
South Texas Project, Unit 1	4	0.050	0.100	28.0	28.0	0.0	
St. Lucie Plant, Unit 1	2	0.050	0.100	18.5	22.0	3.5	
Surry Nuclear Power Station, Unit 1	2	0.080	0.150	22.7	26.5	3.8	
Susquehanna Steam Electric Station, Unit 1	1	0.080	0.150	548.0	670.0	122.0	
Three Mile Island Nuclear Station, Unit 1	1	0.060	0.120	304.0	310.0	6.0	
Turkey Point Nuclear Generating, Unit 3	2	0.050	0.150	18.3	20.0	1.7	
Vermont Yankee Nuclear Power Plant, Unit 1	1	0.070	0.140	247.2	252.5	5.3	
Virgil C. Summer Nuclear Station, Unit 1	2	0.150	0.250	436.6	438.0	1.4	
Vogtle Electric Generating Plant, Unit 1	2	0.120	0.200	165.0	220.0	55.0	
Waterford Steam Electric Station, Unit 3	4	0.033	0.100	361.0	361.0	0.0	
Watts Bar Nuclear Plant, Unit 1	2	0.090	0.180	738.8	738.8	0.0	Comp Measures in place to protect equipment
Wolf Creek Generating Station, Unit 1	4	0.060	0.120	1095.0	1099.5	4.5	

<sup>1</sup>May be result of any one or combination of the following: flood, hurricane, tsunami, seiche, or dam failure

**From:** (b)(6) ] ex 6  
**To:** Tobin, Jennifer  
**Subject:** Re: Technical assumptions for 50 miles exclusion zone Fukushima  
**Date:** Tuesday, March 22, 2011 2:16:20 PM

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Jenny,

Thanks for your response. Unfortunately, the publicly available data released you cite does not respond to my questions and does not address my concern. Thanks in advance to let me know if/when more data becomes available.

Thanks for your service to the protection of the public (I am a US citizen and I live in Northern Virginia).  
Catherine Gaujacq

In a message dated 3/22/2011 2:04:33 P.M. Eastern Daylight Time, Jennifer.Tobin@nrc.gov writes:

Dear Catherine,

Thank you for your inquiry. The 50-mile sheltering zone for U.S. citizens around the Fukushima plant was based on the data available to the NRC at that time (from U.S. agencies in Japan as well as the Japanese government). That protective action measure was based on the radiation levels measured in the area, wind conditions and potential future events at the reactor units, among other factors. The data that was attached to the press release is what is publicly available at this time. I hope this addresses your concern.

Jenny (Tobin) Wollenweber

Export Licensing Officer

Office of International Programs

office: 301-415-2328

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**From:** (b)(6) ] ex 6  
**Sent:** Saturday, March 19, 2011 10:49 AM  
**To:** Bowman, Eric  
**Subject:** Technical assumptions for 50 miles exclusion zone Fukushima

I would like to understand the basis for the "50 miles sheltering zone" recommendation of the NRC around Fukushima.

Is it the nuclear explosion of the 9 source terms on site?

Is it the nuclear explosion of one 850 MW reactor?

Something else?

To my knowledge, the attachment 11-050 gives NO scientific/technical basic assumptions for its computerized calculations.

B/131

Thanks for your response.

Catherine GAUJACQ

(b)(6) ] ex 6  
=

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Bcc:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RE: Response from "Contact the NRC Web Site Staff"  
**Date:** Tuesday, March 22, 2011 2:18:00 PM

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Dear Mr. Wooldridge,  
Thank you for your inquiry. The NRC is assisting our counterpart in Japan (NISA) as requested. Once the event is over, we anticipate learning a lot from the recent events at Fukushima and intend to evaluate what features in our regulations can be enhanced to provide greater safety and security in the event of an emergency (e.g. earthquake, tsunami). Our licensees have to meet our regulations and we monitor that through inspections at the plants. I hope this addresses your concern.

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

-----Original Message-----  
**From:** Kent Wooldridge (b)(6)  
**Sent:** Tuesday, March 22, 2011 2:01 AM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Kent Wooldridge (b)(6) on Tuesday, March 22, 2011 at 02:01:16

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comments: First, your website is clearly comment unfriendly. This is just one more of the items that tend to give your employers, the public, an unpleasant feeling about your office. But in the unlikely event that you do not just delete this unread, here are suggestions for reactor design. We see the Japanese futilely squirting seawater over the wrecked reactor buildings and letting the runoff go everywhere. What would be so difficult in demanding that reactor buildings have protected fire dept connections at street level with fixed nozzles INSIDE the complex so that if all else failed, reactors could be cooled better from the outside? And if the reactor room drained into a dry sump directly below it, there would be less uncontrolled contaminated runoff. And in the even of the feared China syndrome, the melting core would fall INTO the water filled wet sump, thus adding to the cooling effort. In CA, commercial and residential buildings HAVE to have outside fixtures which lead to fixed mount inside sprinklers. If the Japanese had those, they would look a lot smarter now.

organization: Unhappy public

address1: (b)(6)  
address2: (b)(6)  
city: (b)(6)  
state: (b)(6)  
zip: (b)(6)  
country: (b)(6)  
phone: (b)(6)

ex 6

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**From:** Tobin, Jennifer  
**To:** (b)(6) ex 6  
**Bcc:** [REDACTED]  
**Subject:** RE: A Question  
**Date:** Tuesday, March 22, 2011 2:49:00 PM

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Dear Mr. Young,  
Thank you for your inquiry. The NRC is aware of the IAEA publication that you mentioned. Seismic matters are taken into consideration in our review of the license application as well as retroactively for the plants that have already been built. NRC has the authority to require safety upgrades at the plants if/when new knowledge becomes available that wasn't evaluated in the original design. I hope this addresses your concern.

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

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**From:** Timothy Young [(b)(6)] ex 6  
**Sent:** Tuesday, March 22, 2011 8:57 AM  
**To:** OPA Resource  
**Subject:** A Question

The U.S. Nuclear Regulatory Commission,

I read an article that the U.N.'s International Atomic Energy Agency knows of 88 nuclear plants that are located in seismically active areas worldwide.

Does the U.S. Nuclear Regulatory Commission know how many of these reactors are located within the United States, which could be subjected to the run-up of a tsunami, and could the NRC provide their locations or the name of these reactors? The article which I read mentioned the San Onofre and the Diablo Canyon plants both in California.

Thanks for your assistance.

Sincerely,  
Tim Young

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**From:** Tobin, Jennifer  
**To:** (b)(6) ] ex 6  
**Subject:** RE: Suggestions on review US NPP following Fukushima  
**Date:** Tuesday, March 22, 2011 3:28:00 PM

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Dear Catherine,  
The design basis (for new plants) may become more stringent. We do recognize, however, that the probability of an event can never be fully eliminated. We work to minimize the probability as much as we can to keep risk levels low. Thank you for your concern.

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

**From:** (b)(6) ] ex 6  
**Sent:** Tuesday, March 22, 2011 3:14 PM  
**To:** Tobin, Jennifer  
**Subject:** Re: Suggestions on review US NPP following Fukushima

Dear Jenny,  
Thanks for your response. It does not address the concern I expressed: **preparing to cope beyond design basis whatever the cause or preparing to cope with the uncontrolled release of radioactive source terms.**  
Thanks for your time,  
Catherine Gaujacq

In a message dated 3/22/2011 2:37:39 P.M. Eastern Daylight Time, Jennifer.Tobin@nrc.gov writes:

Dear Ms. Gaujacq,

Thank you for your additional inquiry. The NRC is assisting our counterpart in Japan (NISA) as requested. Once the event is over, we anticipate learning a lot from the recent events at Fukushima and intend to evaluate what features in our regulations can be enhanced to provide greater safety and security in the event of an emergency (e.g. earthquake, tsunami) and thus establish a stronger design basis. Our licensees have to meet our regulations and we monitor that through inspections at the plants. I hope this addresses your concern.

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

**From:** (b)(6) ] ex 6  
**Sent:** Tuesday, March 22, 2011 10:09 AM  
**To:** OPA Resource  
**Subject:** Suggestions on review US NPP following Fukushima

I suggest the NRC review of US NPP following Fukushima focus on determining the

B/134

resources –humans and equipments- needed to cope with and limit the impact of uncontrolled radioactive products with 2 ultimate scenarios:

- (1) **Uncontrolled nuclear explosion of one nuclear source term at each site**
- (2) **Prolonged Loss of Heat Sink at each site with nuclear source term(s)**

The first reason is that these situations already happened, and both situations are **and will always be beyond the design basis of any nuclear plant in the world**. The worst event so far is man made –Chernobyl- and one event –Fukushima- is nature made and man saved.

*What can go wrong? Uncontrolled nuclear explosion of a commercial reactor*

*How likely is it? It happened on April, 26<sup>th</sup> 1986*

*What are the consequences? MAJOR (INES scale 7)*

*Chernobyl is a blind spot in NRC and US nuclear industry. It won't prevent a criticality event from happening if not correctly anticipated.*

The second reason is because a “nuclear safety continuity and recovery” process/procedure is more appropriate than a “piecemeal” of “event based” procedures when disaster strikes. The dynamic facts based assessment of the state of the defense in depth of each source term is the only response:

- 1-The knowledge of the actual/potential radioactive source terms: each “reactor”, each “spent fuel pool” (including the general one on site).
- 2-The knowledge of the status of the barriers for each reactor AND each spent fuel pool: Fuel rods cladding, Reactor pressure vessel and/or pool, Containment vessel
- 3-A strong understanding of Nuclear Safety principles: NO uncontrolled criticality, Cooling at all costs, Controlling as much as possible the releases
- 4- A strong nuclear safety culture of the licensee employees to engage the correct critical actions needed to prevent or limit release of radioactive products from each source term in the environment
5. A strong coordination of the affected site/sites with the local and state authorities to protect and inform the population and the environment without panic. A simple clear visual real time 21st century communication tool to the public about the fundamentals is badly missing.

*What can go wrong? Prolonged Loss of Heat Sink on 6 units nuclear site*

*How likely is it? It happened on March, 11<sup>th</sup> 2011*

*What are the consequences? SERIOUS (INES scale 6)*

*Can we regulate the power of the next earthquake in America?*

We will not regulate the size of the waves, the location and power of an earthquake, global warming, terrorism and nuclear safety culture. But we can be humble, acknowledge that “Engineering too is human”. We can operate within strong design basis and build a strong nuclear safety culture to avoid the man made accidents (TMI, Chernobyl) . We can also prepare relentlessly for the next event beyond design basis.

NB: I still do not understand the 50 miles EPZ technical assumptions after the Commission briefing.

Catherine Gaujacq  
(b)(6)

ex 6

(b)(6)  
(b)(6)

ex 6

**From:** Tobin, Jennifer  
**To:** (b)(6)  
**Bcc:** Bonaccorso, Amy  
**Subject:** RE: Question about reactor disaster preparation  
**Date:** Tuesday, March 22, 2011 4:11:00 PM

---

Dear Mr. Ison,  
Thank you for your inquiry. The NRC is assisting our counterpart in Japan (NISA) as requested. Once the event is over, we anticipate learning a lot from the recent events at Fukushima and intend to evaluate what features in our regulations can be enhanced to provide greater safety and security in the event of an emergency (e.g. earthquake, tsunami). Our licensees have to meet our regulations and we monitor that through inspections at the plants. I hope this addresses your concern.

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

**From:** Roger Ison (b)(6)  
**Sent:** Monday, March 21, 2011 9:50 PM  
**To:** OPA Resource  
**Subject:** Question about reactor disaster preparation

I hope this is the appropriate method to ask a question I want to pose.

It seems apparent to me that while designers have done everything they could think of to make reactors able to survive various kinds of failures, the engineering of these machines has not provided adequately for access AFTER a catastrophe. And I'd like to ask if the same is true of more modern reactor facilities.

I will use Fukushima as an example, but I am not proposing solutions to the Japanese problem - I'm trying to make a clear point about reactor facility design.

For example, the Japanese had to cut through a cement wall in order to connect external power. There could have been externally accessible contacts for this purpose in case of emergency. There could even have been pre-laid cables extending some distance away.

Likewise the control rooms. There seems to be, at least at the Fukushima plant, no provision for remote access to the instrumentation and control circuits. They can't

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see what's going on in the reactor at least in part because the control rooms are too "hot", or so it has been reported. Why no remote access?

At Fukushima it has been too dangerous for helicopters to hover over the plant to drop water. But if there had been cables strung overhead when the plant was built, it would have been possible to pull a fire hose out by means of pulleys and spray water directly downward. Why was there no provision of this sort - if not exactly this, why not something, in any case? Why not have embedded pipes through the concrete and then upward, for emergency use?

In the worst case, if a reactor had to be buried, it would be helpful to have very tall concrete walls surrounding the entire facility. Such walls could form sort of "mold" into which to pour sand and concrete for the funeral if entombment were necessary. They're not pretty but they'd work.

I'm sure you can think of many other provisions of this sort. Do modern reactors have these features? If not, why not?

Thanks

Roger Ison

(b)(6)

exp

**From:** VRay  
**To:** Tobin, Jennifer  
**Subject:** RE: Nuclear Safety Accident Preparations and Response Training May be Inadequate  
**Date:** Tuesday, March 22, 2011 4:31:33 PM

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Yes, as long as you are aware of the potential and will consider the possibility my concern has been addressed. BTW, I worked nuclear units almost my full working career so I am well aware of the similarities and differences between US and Japanese sites. However, the Cascadia subduction fault off of Washington/Oregon is supposed to be capable of a 9.0 magnitude quake.

VRayFoster

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**From:** Tobin, Jennifer [mailto:Jennifer.Tobin@nrc.gov]  
**Sent:** Tuesday, March 22, 2011 10:15 AM  
**To:** (b)(6)  
**Subject:** RE: Nuclear Safety Accident Preparations and Response Training May be Inadequate

Dear Mr. Foster,  
Thank you for your inquiry and concern. As you point out, the U.S. will learn from the event in Japan and may consider revising safety regulations for emergency preparedness and response. One noteworthy difference between the U.S. and Japan is that in the U.S. there is only one plant with three operating units, all of the others only have one or two; whereas many Japanese reactor sites have 4-6 units. I hope this addresses your concern.

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

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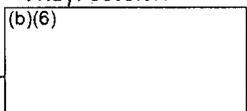
**From:** VRay (b)(6)  
**Sent:** Monday, March 21, 2011 1:57 PM  
**To:** NRC Allegation  
**Subject:** Nuclear Safety Accident Preparations and Response Training May be Inadequate

US nuclear generating stations hold routine training drills, etc. for the worst case postulated credible single failure event. Based upon multiple units at the same site failing in Japan, it is no longer credible that an analyzed accident only affects one unit at a multiple unit site. Shouldn't it now be a requirement for multiple unit sites to analyze and set up the emergency response facilities to handle all units at a site simultaneously? Up to now it has been considered an unlikely event for a string of failures at one site to occur at the adjacent unit but clearly one tsunami wave, a single failure initiating event, affected all units at a given site in Japan. If I am correct, then no US multi unit site is set up to deal with more than a single unit failure at a time. I think prudently this should now be looked at as a credible failure and proper preparations taken to ensure if this were to happen at a US facility then the utility is not in a position that there is insufficient people, emergency response facilities, etc. to deal with a simultaneous multi unit emergency. Possibly, this advanced preparations would prevent the release of radioactive materials to the US environment such as what is happening in Japan as they, by admission, were not prepared to handle a multi unit failure.

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VRayFosterJr.

(b)(6)



ex 6

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: Student reporter  
**Date:** Tuesday, March 22, 2011 2:52:00 PM

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**From:** joshua johnston (b)(6) Ex 6  
**Sent:** Tuesday, March 22, 2011 2:52 PM  
**To:** OPA Resource  
**Subject:** Student reporter

Hello my name is Joshua Johnston I am a student reporter for the Voice newspaper, I am writing an article the ozone and atmospheric affects since the tsani in Japan destroyed their nuclear plants. Is this a concern to your agency and if so how? I would appreciate if I could interview or talk to someone from your commision about my topic. Please email me back with any information please.

R/137

**From:** Couret, Ivonne  
**To:** Hayden, Elizabeth; Harrington, Holly; McIntyre, David; Burnell, Scott; Brenner, Eliot; Janbergs, Holly  
**Subject:** Japan info provided by Richard Barkley Region 1  
**Date:** Tuesday, March 22, 2011 2:00:38 PM

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FYI – Link to Japan Nuclear folks and how they are illustrating information. Ivonne

**Ivonne L. Couret**  
Public Affairs Officer  
Office of Public Affairs  
Media Desk  
opa.resource@nrc.gov  
301-415-8200

Visit our online photo gallery. Incorporate graphics and photographs to tell your story!  
<http://www.nrc.gov/reading-rm/photo-gallery/>

2010-2011 Information Digest - Where you can find NRC Facts at a Glance  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/>

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**From:** Barkley, Richard  
**Sent:** Tuesday, March 22, 2011 1:49 PM  
**To:** Couret, Ivonne; Mitlyng, Viktoria; Rakovan, Lance; Ryan, Michelle; Salter, Susan; Screnci, Diane; Steger (Tucci), Christine; Virgilio, Rosetta  
**Subject:** FW: Good Discussion Today - Thanks for Such a Group Effort!!

[http://www.mext.go.jp/component/english/\\_icsFiles/afieldfile/2011/03/22/1303997\\_2219.pdf](http://www.mext.go.jp/component/english/_icsFiles/afieldfile/2011/03/22/1303997_2219.pdf)

Take a look at the cute Japanese radiological pictorial graph on Page 5 – We should use something like this going forward.

This information was forwarded from someone in Research, and has radiological data from Japan post-Fukushima.

At least the Japanese have been lucky in one big way – The wind at Fukushima Daiichi has been almost always out to sea.

Most of the readings outside of the 20 km radius around the plant (~12 miles) are less than 10 microsieverts per hour (= to 1 millirem/hour).

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**From:** Carpenter, Gene  
**Sent:** Tuesday, March 22, 2011 1:27 PM  
**To:** Barkley, Richard; Adelstein, Patricia; Anderson, Brian; Bafundo Crimm, Nina; Bailey, Kenneth; BowdenBerry, Elva; Burton, William; Daniel, Richard; Fehst, Geraldine; Fuller, Michael; Glenn, Nichole; Heck, Jared; Kotra, Janet; Krsek, Robert; Leslie, Bret; Maier, Bill; Meeting\_Facilitation Resource; Mroz (Sahm), Sara; Rakovan, Lance; Rivera, Alison; Rodriguez, Michael; Salter, Susan; Smith, George; Stuyvenberg, Andrew; Wright, Lisa (Gibney)  
**Subject:** RE: Good Discusssion Today - Thanks for Such a Group Effort!!

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FYI:

This is what our Japanese equivalent (NISA) is saying:

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

Gene

**From:** Barkley, Richard

**Sent:** Tuesday, March 22, 2011 13:26

**To:** Adelstein, Patricia; Anderson, Brian; Bafundo Crimm, Nina; Bailey, Kenneth; Barkley, Richard; BowdenBerry, Elva; Burton, William; Carpenter, Gene; Daniel, Richard; Fehst, Geraldine; Fuller, Michael; Glenn, Nichole; Heck, Jared; Kotra, Janet; Krsek, Robert; Leslie, Bret; Maier, Bill; Meeting\_Facilitation Resource; Mroz (Sahm), Sara; Rakovan, Lance; Rivera, Alison; Rodriguez, Michael; Salter, Susan; Smith, George; Stuyvenberg, Andrew; Wright, Lisa (Gibney)

**Subject:** Good Discusssion Today - Thanks for Such a Group Effort!!

<http://www.nrc.gov/japan/japan-info.html>

The above link takes you to the NRC's external website location for the events related to Japan. The agency has gone from having almost nothing on our website on Fukushima to a very healthy list of Frequently Asked Questions. I suspect the materials provided to the Regions in advance of their Annual Assessment Meetings will rely heavily on this material.

Richard S. Barkley, PE

Nuclear & Environmental Engineer

(610) 337-5065 Work

(b)(6) Cell] Ex 6

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: Robots at reactors?  
**Date:** Tuesday, March 22, 2011 12:20:00 PM

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**From:** Geoffrey Brumfiel [mailto:GBrumfiel@npr.org]  
**Sent:** Tuesday, March 22, 2011 11:54 AM  
**To:** OPA Resource  
**Subject:** Robots at reactors?

Hi guys,

I'm working on a story for tomorrow morning about some robots that have been to shipped to the site at Fukushima Daiichi to possibly look at the reactors. I spoke informally to David McIntyre about this, but now that we're officially doing a story, I wanted to know the following:

- A) Do US nuclear facilities use robots as part of normal operations? If so for what?
- B) Do the companies or you guys have any emergency robots to investigate accidents?
- C) Has the government sent any robots to the site? I see several reports that private companies have.

I'm on deadline for the end of the day, feel free to get in touch by phone or e-mail.

Thanks!

Geoff Brumfiel  
National Public Radio  
P: +1 (202) 513-2794

C: (b)(6) Ex 6  
E: [gbrumfiel@npr.org](mailto:gbrumfiel@npr.org)

R/139

**From:** Janbergs, Holly  
**To:** natasha.hall  
**Subject:** RE: Calvert Cliffs Assessment  
**Date:** Tuesday, March 22, 2011 10:02:00 AM

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Ms. Hall,

There may be time next week for a few questions. I will ask a few of our Officers and get back to you later in the week, if that's all right.

In the meantime, you can find information on Calvert Cliffs here:

<http://www.nrc.gov/info-finder/reactor/calv1.html>

Hopefully that can be of some use to you, at least.

Thank you,  
Bethany

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**From:** natasha.hall (b)(6) Ex 6  
**Sent:** Tuesday, March 22, 2011 9:59 AM  
**To:** Janbergs, Holly  
**Subject:** Re: Calvert Cliffs Assessment

Dear Ms. Janbergs,

I can imagine that things are quite busy. I suppose our time frame is about two weeks which may be too short. However, I would be happy if I could just ask someone informed about the issue just a couple of questions over the phone if that is easiest. Just let me know if that is at all possible.

Thank you again,  
Best,  
Natasha

On Tue, Mar 22, 2011 at 9:53 AM, Janbergs, Holly <[Holly.Janbergs@nrc.gov](mailto:Holly.Janbergs@nrc.gov)> wrote:  
Ms. Hall,

I would love to find someone for you to speak with. Unfortunately, the situation in Japan has been taking up a great deal of our time, and I'm unsure I can promise an interview with one of our Public Affairs Officers. What is the timeframe for your assessment? It may be that once things calm down I can find someone to speak with you.

Please let me know if I can help in any other way.

Thank you,  
Bethany

Beth Janbergs  
Public Affairs Assistant  
[301-415-8211](tel:301-415-8211)

R/140

**From:** natasha.hall  
**To:** Janbergs, Holly  
**Subject:** Re: Calvert Cliffs Assessment  
**Date:** Tuesday, March 22, 2011 10:06:46 AM

---

That is perfect. Thank you Bethany.

On Tue, Mar 22, 2011 at 10:02 AM, Janbergs, Holly <Holly.Janbergs@nrc.gov> wrote:

Ms. Hall,

There may be time next week for a few questions. I will ask a few of our Officers and get back to you later in the week, if that's all right.

In the meantime, you can find information on Calvert Cliffs here:

<http://www.nrc.gov/info-finder/reactor/calv1.html>

Hopefully that can be of some use to you, at least.

Thank you,

Bethany

---

**From:** natasha.hall (b)(6) Ex 6  
**Sent:** Tuesday, March 22, 2011 9:59 AM  
**To:** Janbergs, Holly  
**Subject:** Re: Calvert Cliffs Assessment

Dear Ms. Janbergs,

I can imagine that things are quite busy. I suppose our time frame is about two weeks which may be too short. However, I would be happy if I could just ask someone informed about the issue just a couple of questions over the phone if that is easiest. Just let me know if that is at all possible.

Thank you again,

Best,

Natasha

On Tue, Mar 22, 2011 at 9:53 AM, Janbergs, Holly <[Holly.Janbergs@nrc.gov](mailto:Holly.Janbergs@nrc.gov)> wrote:

Ms. Hall,

I would love to find someone for you to speak with. Unfortunately, the situation in Japan has been taking up a great deal of our time, and I'm unsure I can promise an interview with one of our Public Affairs Officers. What is the timeframe for your assessment? It may be that once things calm down I can find someone to speak with you.

Please let me know if I can help in any other way.

Thank you,

Bethany

Beth Janbergs

Public Affairs Assistant

301-415-8211

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Tuesday, March 22, 2011 7:27:00 AM

---

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

**From:** NRCWEB Resource  
**Sent:** Monday, March 21, 2011 7:41 PM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** Theo (b)(6) Ex 6  
**Sent:** Monday, March 21, 2011 4:47 PM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Theo (b)(6) Ex 6 on Monday, March 21, 2011 at 16:47:15

---

comments: A comment from a normal citizen who are very concerned about the nuclear reactor. Still thinks about this issue how can we solve this. It is not high-hat of me but I think I have a good chance of success in stopping this fire. Okay, I know of any local circumstances will be honored cooperation with the responsible authorities along this problem to a successful conclusion.

organization:

address1:

address2:

city:

state: ---

zip:

country: (b)(6)

phone:

---

R/141

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Radiation Question  
**Date:** Tuesday, March 22, 2011 7:26:00 AM

---

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

From: (b)(6) Ex 6  
Sent: Monday, March 21, 2011 7:03 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) Ex 6  
on Monday, March 21, 2011 at 19:02:42

---

comments: can you please direct me to the modeling basis  
for determining the evacuation zone after a  
nuclear accident? Thanks

contactName: Michael S. McGough

phone: (b)(6)

---

R/142

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: A Question  
**Date:** Tuesday, March 22, 2011 10:02:05 AM

---

Jenny:

I suspect you'll have better verbiage for this one than myself.

---

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Tuesday, March 22, 2011 9:00 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: A Question

---

**From:** Timothy Young [(b)(6)] *ex6*  
**Sent:** Tuesday, March 22, 2011 8:57 AM  
**To:** OPA Resource  
**Subject:** A Question

The U.S. Nuclear Regulatory Commission,

I read an article that the U.N.'s International Atomic Energy Agency knows of 88 nuclear plants that are located in seismically active areas worldwide.

Does the U.S. Nuclear Regulatory Commission know how many of these reactors are located within the United States, which could be subjected to the run-up of a tsunami, and could the NRC provide their locations or the name of these reactors? The article which I read mentioned the San Onofre and the Diablo Canyon plants both in California.

Thanks for your assistance.

Sincerely,  
Tim Young

R/143

**From:** Bonaccorso, Amy  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Tuesday, March 22, 2011 9:51:50 AM

---

Jenny - though you may be able to address this better than me. He's obviously kind of cranky - so I thought the standard form response might not be the best way to go.

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

**From:** Janbergs, Holly On Behalf Of OPA Resource  
**Sent:** Tuesday, March 22, 2011 7:31 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** NRCWEB Resource  
**Sent:** Tuesday, March 22, 2011 6:26 AM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** Kent Wooldridge (b)(6)  
**Sent:** Tuesday, March 22, 2011 2:01 AM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Kent Wooldridge (b)(6) on Tuesday, March 22, 2011 at 02:01:16

---

comments: First, your website is clearly comment unfriendly. This is just one more of the items that tend to give your employers, the public, an unpleasant feeling about your office. But in the unlikely event that you do not just delete this unread, here are suggestions for reactor design. We see the Japanese futilely squirting seawater over the wrecked reactor buildings and letting the runoff go everywhere. What would be so difficult in demanding that reactor buildings have protected fire dept connections at street level with fixed nozzles INSIDE the complex so that if all else failed, reactors could be cooled better from the outside? And if the reactor room drained into a dry sump directly below it, there would be less uncontrolled contaminated runoff. And in the even of the feared China syndrome, the melting core would fall INTO the water filled wet sump, thus adding to the cooling effort. In CA, commercial and residential buildings HAVE to have outside fixtures which lead to fixed mount inside sprinklers. If the Japanese had those, they would look a lot smarter now.

organization: Unhappy public  
address1: (b)(6)  
address2:  
city: (b)(6)  
state: (b)(6)

ex 6

R/144

zip: (b)(6)

country: (b)(6)

phone: (b)(6)

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Tuesday, March 22, 2011 7:27:00 AM

---

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

**From:** NRCWEB Resource  
**Sent:** Monday, March 21, 2011 7:42 PM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** Bruce Patterson [mailto:bpatterson@imagnetomorrow.com] *rd* *Ex 6*  
**Sent:** Monday, March 21, 2011 5:19 PM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Bruce Patterson [bpatterson@imagnetomorrow.com] *rd* *Ex 6* on Monday, March 21, 2011 at 17:18:39

---

comments: I wanted to forward this comment to Bill Borchardt, Executive Director for Operations.

I noticed remarks of yours publicized in USA Today, regarding the Fukushima Unit Number 2 "explosion." I happened to be listening to the media feed from Japan at the time the event was reported.

I am a (b)(6) My most significant contribution was in the design of the Three Mile Island Unit 2 containment building.

(b)(6) offering consulting services to Siemens on containment design, when we heard from the Europeans something that was not being openly discussed Stateside.

Designers of Boiling Water Reactor containments in Europe were becoming concerned with violent effects from implosion in the wetwell of superheated steam bubbles.

Considering that there should not be an ignition source in the wetwell, where the explosion at Fukushima had been reported, and considering that pressure was reported to drop after the event, I am wondering if Unit 22 in Fukushima suffered just such an implosion - not explosion.

I am (b)(6). But I hope this is more widely understood today, and will consider my remarks.

Very truly yours,  
Bruce Patterson

organization: (b)(6) - my email addr is at an education company

address: (b)(6) *Ex 6*

*R/145*

address2:

city: (b)(6)

state: (b)(6)

zip: (b)(6)

country: (b)(6)

phone: (b)(6)

Ex 6



**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** RE: US Boiling Water Reactors with Mark 1 Containments  
**Date:** Tuesday, March 22, 2011 9:14:18 AM

---

Wow – that's impressive – too technical for you!? I sent it to Holly.

Thanks,

Amy

---

**From:** Tobin, Jennifer  
**Sent:** Monday, March 21, 2011 6:56 PM  
**To:** Bonaccorso, Amy  
**Cc:** Deavers, Ron  
**Subject:** RE: US Boiling Water Reactors with Mark 1 Containments

This one is way too technical for me too! This would require some serious research and information gathering....Perhaps pass it back to Holly or Dave?

Sorry I couldn't help on this one!

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

---

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 10:20 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: US Boiling Water Reactors with Mark 1 Containments

Way too technical for me to even attempt to respond to.

We are seriously thankful for you Jenny!

---

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Monday, March 21, 2011 9:06 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: US Boiling Water Reactors with Mark 1 Containments

---

**From:** Pam Shallenberger [(b)(6)] *Ex 6*  
**Sent:** Sunday, March 20, 2011 9:49 PM  
**To:** OPA Resource  
**Subject:** US Boiling Water Reactors with Mark 1 Containments

Question:

R/146

Do all US Boiling Water Reactors with Mark 1 Containments have hard pipe vents from both the Suppression Pool, and Primary Containments to the Elevated Release Point so the Reactor Building will not accumulate hydrogen during venting .

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: Radiation Question  
**Date:** Tuesday, March 22, 2011 9:16:58 AM

---

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

**From:** Janbergs, Holly On Behalf Of OPA Resource  
**Sent:** Tuesday, March 22, 2011 7:26 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: Radiation Question

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

**From:** (b)(6)  
**Sent:** Monday, March 21, 2011 7:03 PM  
**To:** OPA Resource  
**Subject:** Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) on Monday, March 21, 2011 at 19:02:42

---

comments: can you please direct me to the modeling basis  
for determining the evacuation zone after a  
nuclear accident? Thanks

contactName: Michael S. McGough

phone: (b)(6)

---

R/147

**Medina, Veronika**

---

**From:** Janbergs, Holly  
**Sent:** Tuesday, March 22, 2011 8:21 AM  
**To:** Medina, Veronika  
**Subject:** FW: Atlanta Journal-Constitution reader question for Ivonne

For filing; answered

---

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Tuesday, March 22, 2011 7:32 AM  
**To:** McIntyre, David  
**Subject:** FW: Atlanta Journal-Constitution reader question for Ivonne

---

**From:** Theresa Giarrusso (b)(6)  
**Sent:** Monday, March 21, 2011 5:07 PM  
**To:** OPA Resource  
**Subject:** Atlanta Journal-Constitution reader question for Ivonne

Dear Ivonne -- My name is Theresa Walsh Giarrusso and I am researching reader questions for The Atlanta Journal-Constitution. We had a question from a reader about what magnitude of earthquake U.S. nuclear facilities are prepared to withstand. The reader specifically asks about Georgia nuclear facilities but I would like to add to that question: Is the standard the same for all U.S. nuclear plants or would it vary based on how likely an earthquake is.

I am happy to work with you via email or phone, although we find email works best to get concise answers. We would love to have an answer by Wednesday or Thursday but we are always happy to take an answer. Thanks so much for your help.

Theresa Walsh Giarrusso

(b)(6)  
(b)(6) (cell) EX 6

here is the reader's question:

I understand that the experts say that the chances are low that  
>Georgia, near the Charleston fault, would ever get an earthquake over

R/148

>a magnitude of 6. I wonder what level of earthquake magnitude  
>Georgia's nuclear plants were designed to withstand?

Tim Conner, and my city of residence is (b)(6)

**Medina, Veronika**

---

**From:** Janbergs, Holly  
**Sent:** Tuesday, March 22, 2011 8:21 AM  
**To:** Medina, Veronika  
**Subject:** FW: Media - Question

For filing; sent to RI

---

**From:** Royer, Deanna  
**Sent:** Tuesday, March 22, 2011 8:11 AM  
**To:** Janbergs, Holly  
**Subject:** Media - Question

Meredith Orban

Fox News

(b)(6) cell } EXC

[Meredith.orban@foxnews.com](mailto:Meredith.orban@foxnews.com)

Re: Indian Point meeting today

Deanna Royer

R/1/49

**Royer, Deanna**

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**From:** Royer, Deanna  
**Sent:** Tuesday, March 22, 2011 9:06 AM  
**To:** Janbergs, Holly  
**Subject:** Media - Everyday Health - Interview

Alison McCook  
Everyday Health

(b)(6) [Redacted] Ex 6

(215-389-1818) ~~Ex 6~~

Re: Interview – She has a 12:00 deadline today  
Nuclear plants in a new light. What you don't need to worry about and how you can prepare

Deanna Royer

R/150

## Ghneim, Munira

---

**From:** Ghneim, Munira  
**Sent:** Tuesday, March 22, 2011 10:19 AM  
**To:** Couret, Ivonne  
**Subject:** Mark Benjamin - Time Magazine -

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Organization - Time Magazine

Contact - Mark Benjamin

Phone - 202-861-4093 ~~JS~~

Email - (b)(6) Ex. 6

Request - Would like to know if the commission has voted on the 90 day review of safety for the nuclear plants in the U.S.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

## Ghneim, Munira

---

**From:** Ghneim, Munira  
**Sent:** Tuesday, March 22, 2011 10:54 AM  
**To:** Couret, Ivonne  
**Subject:** John Sullivan- ProPublica

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Organization - ProPublica

Contact - John Sullivan

Phone - (b)(6) Ex. 6

Email - (b)(6) Ex. 6

Request - He would like some information about fire protection at nuclear plants.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

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Ghneim, Munira

---

From: Ghneim, Munira  
Sent: Tuesday, March 22, 2011 3:15 PM  
To: Deavers, Ron  
Subject: Anna Deusterman - Concerned Citizen ~~Ex. 6~~

Follow Up Flag: Follow up  
Flag Status: Flagged

Anna Deusterman is concerned about the nuclear plant in (b)(6). She is getting ready to move there and would like some questions answered before she does. She would like to know where the nuclear waste is being stored or is it being transported out. You can reach her at

(b)(6)

Ex. 6

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/153

**Deavers, Ron**

---

**From:** Deavers, Ron  
**Sent:** Tuesday, March 22, 2011 3:52 PM  
**To:** Deavers, Ron  
**Subject:** FW: Nuclear Power Plant in (b)(6)

b

**From:** Deavers, Ron  
**Sent:** Tuesday, March 22, 2011 3:51 PM  
**To:** (b)(6)  
**Subject:** Nuclear Power Plant in (b)(6)

We understand you are concerned about the nuclear plant in (b)(6). You are getting ready to move there and would like some questions answered before you do move. Most of our Nuclear Power Plants store some nuclear waste at the plant sites. We have two sites in (b)(6). The (b)(6) site is 35 miles north west of (b)(6) and information about the site is available at (b)(6). The (b)(6) site is located 28 miles south east of (b)(6) and information about the site is available at (b)(6) and (b)(6).

R/154

**Deavers, Ron**

---

**From:** Deavers, Ron  
**Sent:** Tuesday, March 22, 2011 4:05 PM  
**To:** (b)(6) 6  
**Subject:** RE: Casks

Mr. ~~Nguyen~~

Thank you for your suggestions. As part of the comprehensive review of the safety of our Nuclear Power Plants that we will be undertaking in the near future, we will endeavor to address the issues you articulate in your email below and identify all other issues regarding the safety of our Nuclear Power Plants.

6  
**From:** (b)(6)  
**Sent:** Monday, March 21, 2011 8:15 AM  
**To:** CMROSTENDORFF Resource  
**Subject:** Casks

Dear Bill

The time has come for US officials to break all precedents and think outside the box with thoughts and ideas from the American people. US nuclear plants use the same pools to cool spent fuel rods as the ones spewing radiation at Fukushima, only US pools hold much more nuclear material and therefore pose a much greater danger, and indeed a clear and present danger, to the American people. Should a megaquake, tsunami, sabotage, Stuxnet cyberattack, war or terrorist attack hit America, the damage could run into not billions, but trillions of dollars. We the people are fearful for our safety and demand that NRC require spent fuel to be taken out of US pools to reduce risks, as this is a no brainer. The NRC, DoE and other agencies must be above reproach and serve and protect the American people and not favor the nuclear industry or special interests. Now is the time to refuse all gifts, junkets, meals, tickets, favors, trips, propaganda, or bribes that may be coming fast and furious from the embattled industry and serve we the people.

We must stop debating whether America's spent fuel pools would fare as badly or worse in an accident, and whether they could be made safer. We all must be concerned that US pools are too full and must reduce risks by transferring 90% of the fuel rods to dry casks like Germany did. Japanese pools are far from capacity but still contain an enormous amount of radioactivity. There are 104 nukes in America and a typical US plant would have about 10 times as much fuel in its pools. We the people do not accept NRC's position that US pools are operated safely to cool spent fuel for 5 years after removal from a reactor. Moving spent fuel into dry casks, steel and concrete containers filled with an inert gas, is a much safer method for storage, and **we matter because our lives are at stake and it's our country**. Dry cask storage at nuclear power plants could be used for 60 years, giving us plenty of time to figure out a plan for a permanent repository or reprocessing. NRC must strong-arm all utilities that it is far cheaper to do the right

thing and pay now than to pay much more later when disaster strikes and lawsuits arrive. If the industry refuses, then a few decommissionings will do the trick.

In 2004, Congress asked the National Academy of Scientists (NAS) to look at how spent fuel pools would withstand a terrorist attack. After what happened in Japan, we can see clearly that an attack or sabotage that drained a power plant's pool would start an uncontrollable fire that would release large amounts of radiation. The 2004 NAS report said that dry cask storage has two advantages over pool storage: It relies only on air circulation for cooling, and it splits the spent fuel into multiple containers. We the people want NRC to speed the transfer to dry casks, require plant owners to move spent fuel to dry casks, and **mandate all utilities to spend \$10 billion on dry casks**, because a large radiation release from a pool fire could result in tens of thousands of cancer deaths and require hundreds of billions of dollars for decontamination. We the people also demand that the **US lifts the ban on nuclear fuel reprocessing** so utilities can reprocess spent fuel at DoE's Savannah River. DoE can simply modify the plant to handle spent commercial fuel, which would avoid spending money on dry casks. If DoE can't or won't do that, then France, Britain, India, Pakistan, Russia, China and other nations are more than happy to reprocess our spent fuel.

Not Self But Country

Eddy Nguyen ✓

tan Capital ✓

## Deavers, Ron

---

**From:** Deavers, Ron  
**Sent:** Tuesday, March 22, 2011 5:33 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Radiation Question - Any Answers?

I talked to Mr. Anderson. He has a great many ideas about how to eliminate NPPs and replace them with other green methods (wind, solar, and several others I do not remember). I referred him to our the EPA web site RadNet url and our "Japan Page", assuring him that EPA does the monitoring. I think this case is closed, however, he may call back with more questions.

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

**NEWS MEDIA CONTACT FOR EPA:**

[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

EPA's RadNet data is online, though not particularly readable. This page explains that EPA does indeed monitor for radiation and gives a link to RadNet: <http://www.epa.gov/radiation/rert/monitoring.html>

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

R/150

Can anyone help me here? Am I missing anything?

Gordon Anderson  
(b)(6)

b

Thanks,

Amy

**Deavers, Ron**

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Wednesday, March 23, 2011 7:32 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: NRC vs State question

**From:** N. Todd Pritsky (b)(6) D 6  
**Sent:** Tuesday, March 22, 2011 6:52 PM  
**To:** OPA1 RESOURCE  
**Cc:** OPA Resource  
**Subject:** NRC vs State question

Hi there,

I live in (b)(6) and now that the NRC has relicensed Vermont Yankee, I'm just curious about the extent your organization's regulatory power. Is it the case that a plant couldn't operate in Vermont if you didn't approve its application, but if your approval doesn't necessarily mean it can operate if the state/people decide to shut it down? In other words, the NRC's authority to license doesn't trump the state's authority to decommission, right?

I hope that makes sense.

Thank you in advance,

Todd Pritsky

(b)(6)

R/157

## Deavers, Ron

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Wednesday, March 23, 2011 7:33 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Request for information

**From:** John Wheeler (b)(6)  
**Sent:** Tuesday, March 22, 2011 6:45 PM  
**To:** OPA Resource  
**Subject:** Request for information

Please provide me with the assumptions used when calculating the 50 mile evacuation for Americans near the Fukushima reactors in March of 2011 as described here:

[http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-050\\_Attchmt.pdf](http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-050_Attchmt.pdf)

The document referenced above provide results and a basic description of the scenario, but does NOT provide sufficient details to reproduce the calculation.

Thank you,

John Wheeler  
(b)(6)

---

[John's Google Profile](#)

John's podcast: "[This Week in Nuclear](#)", a podcast about the peaceful uses of nuclear energy.

[Follow John on Twitter](#)

7/158

**Deavers, Ron**

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Wednesday, March 23, 2011 7:33 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Events in Japan

Aww ☺

6  
**From:** Mary Lariviere (b)(6)  
**Sent:** Wednesday, March 23, 2011 2:27 AM  
**To:** OPA Resource  
**Subject:** Events in Japan

Good Morning!

I would just like to thank you for all of the help you are giving us here in Japan during these very trying times!  
It is very much appreciated!

Thank You!

V/R,  
Mary

R/159

Deavers, Ron

---

From: Janbergs, Holly on behalf of OPA Resource  
Sent: Wednesday, March 23, 2011 1:20 PM  
To: Bonaccorso, Amy; Deavers, Ron  
Subject: FW: Radiation Question

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

From: [jpacker@asrcenergy.com](mailto:jpacker@asrcenergy.com) [mailto:[jpacker@asrcenergy.com](mailto:jpacker@asrcenergy.com)]  
Sent: Wednesday, March 23, 2011 1:18 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

[jpacker@asrcenergy.com](mailto:jpacker@asrcenergy.com) on Wednesday, March 23, 2011 at 13:18:07

---

6 comments: Hello,

What are the steps and processes into cleaning your tools and equipment that have been contaminated/exposed to radiation?

contactName: Jack Packer

phone: (b)(6)

---

R/160

## Deavers, Ron

---

**From:** Bonaccorso, Amy  
**Sent:** Wednesday, March 23, 2011 10:17 AM  
**To:** Deavers, Ron  
**Subject:** RE: Radiation Question - Any Answers?

\*Thank you\*, by the way, for talking to him!

---

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 10:00 AM  
**To:** Harrington, Holly; McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I talked to this guy yesterday and provided him the information. He did not leave the conversation with any open questions. I think we can consider this case closed.

Ron Deavers

---

**From:** Harrington, Holly  
**Sent:** Wednesday, March 23, 2011 9:58 AM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I don't feel a compelling need to help this individual beyond sending him to EPA and/or DOE.

Amy/Ron – you can provide him with the information below, if that helps. You can also direct him here:  
<http://www.usa.gov/Japan2011.shtml>

---

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

**NEWS MEDIA CONTACT FOR EPA:**

[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

R/161

EPA's RadNet data is online, though not particularly readable. This page explains that EPA does indeed monitor for radiation and gives a link to RadNet: <http://www.epa.gov/radiation/rer/monitoring.html>

**From:** Bonaccorso, Amy

**Sent:** Tuesday, March 22, 2011 1:54 PM

**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer

**Cc:** Deavers, Ron

**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**Ghneim, Munira**

---

**From:** Ghneim, Munira  
**Sent:** Wednesday, March 23, 2011 2:01 PM  
**To:** Simpson, Eric  
**Subject:** Mr. Steven Mauld

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good Afternoon Eric,

Mr. Steven Mauld called for you. He said that he had spoken to you last week regarding a new method for cooling reactors. Please give him a call back at (b)(6)

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Public Affairs  
415-1170

R/162

## Deavers, Ron

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**From:** Siu, Nathan  
**Sent:** Wednesday, March 23, 2011 10:29 AM  
**To:** Deavers, Ron  
**Cc:** Thomas.Albert@dhs.gov; Coe, Doug  
**Subject:** FW: Here is my contact info

Ron –

I've received a telephone call from a DHS staffer – contact information below – requesting information regarding Fukushima (specifically, the existence of a PRA for the plant and the availability of an RES-sponsored classified study by the National Academy of Sciences on the safety and security of spent fuel pools). Per my management and OPA, I've been asked to forward this request to you. Please feel free to contact me if you have any questions.

Nathan Siu  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
21 Church Street, Room 4B05  
Rockville, MD 20852  
301-251-7583 (phone)  
301-251-7424 (fax)  
[Nathan.Siu@nrc.gov](mailto:Nathan.Siu@nrc.gov)

**From:** Albert, Thomas [<mailto:Thomas.Albert@dhs.gov>]  
**Sent:** Wednesday, March 23, 2011 10:12 AM  
**To:** Siu, Nathan  
**Subject:** Here is my contact info

---

Thomas E. Albert, Ph.D.  
Senior Scientist  
Domestic Nuclear Detection Office (DNDO)  
Department of Homeland Security  
Office: 202.254.7102  
Fax: 202.254.7747  
Mobile: (b)(6)  
E-mail: [Thomas.Albert@dhs.gov](mailto:Thomas.Albert@dhs.gov)  
[Thomas.Albert@dhs.sgov.gov](mailto:Thomas.Albert@dhs.sgov.gov)

**Deavers, Ron**

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**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 3:13 PM  
**To:** (b)(6)  
**Subject:** RE: Vermont Yankee

Rev. Carl Kline,

We understand your concern. Thank you for your concise articulation of the issues at Vermont Yankee. As part of the comprehensive review of the safety of our Nuclear Power Plants that we will be undertaking in the near future, we will endeavor to address the issues you articulate in your email below and identify all other issues regarding the safety of the Vermont Yankee Nuclear Power Plant.

In addition, we offer the following information:

- The US Government will be studying every aspect of the Japanese disaster and the Japanese government's response, with the goal of learning as much as possible from that review.
- As the Nuclear Regulatory Commission has said, we do not expect to see radiation at harmful levels reaching the U.S. from damaged Japanese nuclear power plants. As part of the federal government's continuing effort to make our activities and science transparent and available to the public, the Environmental Protection Agency (EPA) will continue to keep all RadNet data available in the current online database. In addition, EPA plans to work with its federal partners to deploy additional monitoring capabilities to parts of the western U.S. and U.S. territories.
- As always, EPA is utilizing this existing nationwide radiation monitoring system, RadNet, which continuously monitors the nation's air and regularly monitors drinking water, milk and precipitation for environmental radiation. The RadNet online searchable database contains historical data of environmental radiation monitoring data from all fifty states and U.S. territories.
- The FDA and USDA continues to ensure all our imported food remains safe as they do everyday
- If there were to be a nuclear accident here, we are prepared to respond and FEMA and the Department of Homeland Security exercise these preparedness plans with the rest of the government and state and local officials as well. Release of radioactive materials can be accidental or intentional and we have a detailed plan to respond regardless of the cause. The Nuclear/Radiological Incident Annex to the National Response Framework outlines which department or agency would have the lead for the Federal response depending on the source and type of release. For example, the Nuclear Regulatory Commission (NRC) would coordinate a response to a release at nuclear power facilities licensed by the NRC. The Department of Energy would coordinate a response to a release involving nuclear weapons in DOE custody. The Department of Homeland Security would coordinate a response to a deliberate attack using improvised nuclear devices or radiological dispersal devices.
- Given the range of potential causes, from an earthquake to a terrorist attack, the plan provides the flexibility and agility we need to respond aggressively and effectively. In addition, state and local officials and nuclear facilities have detailed emergency plans that include specific protective actions, evacuation routes, and methods to alert the public of actions to take in the event of an emergency. There is a robust and active nuclear power plant accident exercise program that includes Federal, State, and local involvement to test plans and keep them current, and just last year we conducted such an exercise. Federal protective action guides are used at all nuclear power plants and are widely accepted and used in planning and exercises, and we will continue our efforts to plan and prepare for the safety and security of the American people.

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

From: Carl Kline (b)(6)

Sent: Wednesday, March 23, 2011 1:51 PM

To: OPA Resource

Subject: Vermont Yankee

I'm appalled and outraged that Vermont Yankee has been relicensed ... in the face of what has just happened in Japan and the order of the President to look again at plants in this country! The timing of the NRC is astonishing, especially when the people of Vermont were fundamentally opposed. It seems quite clear, from Duke Energy's "loan" to the DNC, and your outrageous decision, that our government continues to be purchased by principalities and powers to the detriment of the common person. We will be left, like the Japanese people, to worry about and ponder our future, and the prospect of cancer prone, if not mutant, grandchildren. (How much tritium leaked into the groundwater at Vermont Yankee? Will it impact that problem cell down river in (b)(6)? And will that plume from Japan, even measured in Iceland, affect that problematic cell in the body of (b)(6)?) Shame on you NRC!

And please don't tell me we need the energy. We're developing wind farms like crazy out here on the plains. Besides, what do we need energy for? Will you help people begin to ask that question? How much is waste? How much goes for waste "productivity" that ends up in our landfills or as the waste of war?

Shame on you NRC!

Rev. Carl Kline

(b)(6)

**Deavers, Ron**

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**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 3:33 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RE: REPLY Public - Question

Provided the epa mail resource: [radiation.questions@epa.gov](mailto:radiation.questions@epa.gov)

---

**From:** Royer, Deanna  
**Sent:** Wednesday, March 23, 2011 3:25 PM  
**To:** Deavers, Ron  
**Subject:** RE: Public - Question

Sorry (b)(6)

---

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 3:23 PM  
**To:** Royer, Deanna; Bonaccorso, Amy  
**Subject:** RE: Public - Question

Phone number correct? Should I try (b)(6) for the area code?

---

**From:** Royer, Deanna  
**Sent:** Wednesday, March 23, 2011 3:20 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** Public - Question

**Steve Petrak**  
(b)(6)

Re: Exposure risks in Japan from water contamination.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

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## Deavers, Ron

---

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 4:28 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** RE: REPLY Info-Citizen  
**Attachments:** image001.jpg

Provided #1 and #4 on the Fact Sheet

**From:** Akstulewicz, Brenda  
**Sent:** Wednesday, March 23, 2011 4:13 PM  
**To:** Deavers, Ron  
**Subject:** Info-Citizen

Emily Goldberg

(b)(6)

**Brenda Akstulewicz**  
Administrative Assistant  
Office of Public Affairs  
301-415-8209  
[brenda.akstulewicz@nrc.gov](mailto:brenda.akstulewicz@nrc.gov)



**Deavers, Ron**

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Wednesday, March 23, 2011 12:55 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Please forward as needed:

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

*f*  
**From:** (b)(6)  
**Sent:** Wednesday, March 23, 2011 12:52 PM  
**To:** OPA Resource  
**Subject:** Please forward as needed:

<<... Since they are apparently having some problems in Japan...  
quelling those nuclear fires... then perhaps they should burn some heavy-soot producing (diesel fuel?) fire at  
the same site(s) and allow the heavy smoke to mix the smoke with the really bad isotopes at the point of  
discharge, etc, so that the radioactive release will be  
(partially?) absorbed into the soot... and then fall-out much faster.

Thank you  
Sincerely,  
M. Bowers >

R/1167

**Medina, Veronika**

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**From:** Janbergs, Holly  
**Sent:** Wednesday, March 23, 2011 1:42 PM  
**To:** Medina, Veronika  
**Subject:** FW: Request for Jaczko on Anderson Cooper tonight

---

**From:** Janbergs, Holly  
**Sent:** Wednesday, March 16, 2011 7:03 PM  
**To:** McIntyre, David  
**Subject:** Request for Jaczko on Anderson Cooper tonight

Kerry Rubin from Anderson Cooper's show on CNN is interested in having the Chairman on his show tonight. It would be a live interview around 10. Anderson Cooper is currently in Tokyo and she would like me to remind everyone that this show is aired internationally unlike Wolf Blitzer.

She can be reached on her cell at (b)(6) or you can try her colleague Ben Finley at (b)(6)

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

~~EXC~~

~~EXC~~

R/168

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Wednesday, March 23, 2011 8:37 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Luke Taylor

(b)(6)

Re: He is looking for an NRC list of the most at risk plants in U.S. – The ones with the most violations

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/169

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Wednesday, March 23, 2011 3:20 PM  
**To:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** Public - Question

Steve Petrak

(b)(6) *SPB*

Re: Exposure risks in Japan from water contamination.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

**From:** McIntyre, David  
**To:** Harrington, Holly; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Wednesday, March 23, 2011 9:59:08 AM

---

Ron has handled, I believe.

---

**From:** Harrington, Holly  
**Sent:** Wednesday, March 23, 2011 9:58 AM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I don't feel a compelling need to help this individual beyond sending him to EPA and/or DOE.

Amy/Ron – you can provide him with the information below, if that helps. You can also direct him here: <http://www.usa.gov/japan2011.shtml>

---

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

**NEWS MEDIA CONTACT FOR EPA:**

[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

EPA's RadNet data is online, though not particularly readable. This page explains that EPA does indeed monitor for radiation and gives a link to RadNet:

<http://www.epa.gov/radiation/rert/monitoring.html>

---

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer

R/171

**Cc:** Deavers, Ron

**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**From:** [Deavers, Ron](#)  
**To:** [Harrington, Holly](#); [McIntyre, David](#); [Bonaccorso, Amy](#); [Burnell, Scott](#); [Janbergs, Holly](#); [Tobin, Jennifer](#)  
**Cc:** [Courret, Ivonne](#)  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Wednesday, March 23, 2011 10:00:03 AM

---

I talked to this guy yesterday and provided him the information. He did not leave the conversation with any open questions. I think we can consider this case closed.

Ron Deavers

---

**From:** Harrington, Holly  
**Sent:** Wednesday, March 23, 2011 9:58 AM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Courret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I don't feel a compelling need to help this individual beyond sending him to EPA and/or DOE.

Amy/Ron – you can provide him with the information below, if that helps. You can also direct him here: <http://www.usa.gov/Japan2011.shtml>

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Courret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

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[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

EPA's RadNet data is online, though not particularly readable. This page explains that EPA does indeed monitor for radiation and gives a link to RadNet:

<http://www.epa.gov/radiation/rert/monitoring.html>

R/172

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**Deavers, Ron**

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Wednesday, March 23, 2011 7:32 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: cooling the rods

**From:** LUKE LICZKOWSKI (b)(6)  
**Sent:** Tuesday, March 22, 2011 7:08 PM  
**To:** OPA Resource  
**Cc:** [luke.liczkowski@sial.com](mailto:luke.liczkowski@sial.com)  
**Subject:** cooling the rods

Use dry ice (CO2) - it will disperse the hydrogen as CO2 is heavy and will make the temp. difference much higher  
Regards, Luke Liczkowski

R/172

**From:** [Bonaccorso, Amy](#)  
**To:** [McIntyre, David](#); [Deavers, Ron](#); [Burnell, Scott](#); [Janbergs, Holly](#); [Tobin, Jennifer](#)  
**Cc:** [Harrington, Holly](#); [Courret, Ivonne](#)  
**Subject:** Re: Radiation Question - Any Answers?  
**Date:** Wednesday, March 23, 2011 8:14:52 AM

---

Yes- I provided those data points- or at least offered them, but he was insistent that we had more data.

Oh well- looks like Ron called him again...probably good that he heard the same info from a second person.

Thx,  
Amy

---

**From:** McIntyre, David  
**To:** Deavers, Ron; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Harrington, Holly; Courret, Ivonne  
**Sent:** Tue Mar 22 17:14:53 2011  
**Subject:** RE: Radiation Question - Any Answers?

Thanks!

---

**From:** Deavers, Ron  
**Sent:** Tuesday, March 22, 2011 5:02 PM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Harrington, Holly; Courret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I will coordinate with Amy and then give the guy a call.

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Courret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

**NEWS MEDIA CONTACT FOR EPA:**

[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

EPA's RadNet data is online, though not particularly readable. This page explains

R/174

that EPA does indeed monitor for radiation and gives a link to RadNet:  
<http://www.epa.gov/radiation/rert/monitoring.html>

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**From:** Tobin, Jennifer  
**To:** Bonaccorso, Amy  
**Subject:** RE: Request for information  
**Date:** Wednesday, March 23, 2011 11:41:07 AM

---

That is correct. The other data is not available to the public at this time.

---

**From:** Bonaccorso, Amy  
**Sent:** Wednesday, March 23, 2011 10:29 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: Request for information

Jenny – I'm dizzy already....

We are telling people that the information the calculations are based off of is not publicly available, right?

Thanks,

Amy

**From:** Janbergs, Holly On Behalf Of OPA Resource  
**Sent:** Wednesday, March 23, 2011 7:33 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Request for information

**From:** John Wheeler (b)(6) Jex b  
**Sent:** Tuesday, March 22, 2011 6:45 PM  
**To:** OPA Resource  
**Subject:** Request for information

Please provide me with the assumptions used when calculating the 50 mile evacuation for Americans near the Fukushima reactors in March of 2011 as described here:

[http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-050\\_Attchmt.pdf](http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-050_Attchmt.pdf)

The document referenced above provide results and a basic description of the scenario, but does NOT provide sufficient details to reproduce the calculation.

Thank you,

John Wheeler

(b)(6)

---

John's Google Profile <<http://www.google.com/profiles/johnkwheeler84>>

John's podcast: "This Week in Nuclear" <<http://thisweekinnuclear.com/>>, a podcast about the peaceful uses of nuclear energy.

Follow John on Twitter <<http://twitter.com/thejohnwheeler>>

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**From:** Bonaccorso, Amy  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** RE: NRC vs State question  
**Date:** Wednesday, March 23, 2011 11:41:39 AM

---

Okay - thanks.

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

**From:** Tobin, Jennifer  
**Sent:** Wednesday, March 23, 2011 11:39 AM  
**To:** Bonaccorso, Amy  
**Cc:** Deavers, Ron  
**Subject:** RE: NRC vs State question

I would refer this to lawyers. It's a legal issue and it sounds like the gentleman is well aware of both sides. I wouldn't want to mis-state our position.

---

**From:** Bonaccorso, Amy  
**Sent:** Wednesday, March 23, 2011 10:35 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: NRC vs State question

Jenny:

I just read about state officials from NY meeting with the NRC to discuss the safety of Indian Point - and it was not clear to me what level of authority the state has vs. NRC. Do you know enough about this to answer this question?

Thanks,

Amy

**From:** Janbergs, Holly On Behalf Of OPA Resource  
**Sent:** Wednesday, March 23, 2011 7:32 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: NRC vs State question

**From:** N. Todd Pritsky [(b)(6)] ] exp  
**Sent:** Tuesday, March 22, 2011 6:52 PM  
**To:** OPA1 RESOURCE  
**Cc:** OPA Resource  
**Subject:** NRC vs State question

Hi there,

I live in (b)(6) and now that the NRC has relicensed Vermont Yankee, I'm just curious about the extent your organization's regulatory power. Is it the case that a plant couldn't operate in Vermont if you didn't approve its application, but if your approval doesn't necessarily mean it can operate if the state/people decide to shut it down? In other words, the NRC's authority to license doesn't trump the state's authority to decommission, right?

I hope that makes sense.

Thank you in advance,

R/176

Todd Pritsky

(b)(6)

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: NRC lessons learned  
**Date:** Wednesday, March 23, 2011 4:48:00 PM

---

FYI

**From:** scott.disavino@thomsonreuters.com [mailto:scott.disavino@thomsonreuters.com]  
**Sent:** Wednesday, March 23, 2011 4:44 PM  
**To:** OPA Resource; Burnell, Scott  
**Cc:** eileen.ogrady@thomsonreuters.com  
**Subject:** NRC lessons learned

Hi Scott,

Working on another story on new designs and possible changes for those new designs and existing designs

The NRC has a 30 and 90 day review of the existing plants

What systems are you looking at, I've heard

- Flood control
- Backup power systems – generators and batteries
- Hydrogen mitigation devices
- Venting of reactor vessel and primary containment
- Control room ventilation

Basically all the things that went wrong at Daiichi – if I'm missing something – you can fill in the blanks

A separate question – the AP 1000 and ESBWR – the passive systems are they to shut the reactor only or do they also keep the spent fuel pools hydrated

Thanks,

Scott

**Scott DiSavino**  
Correspondent  
Thomson Reuters

Phone: 1 646 223 6072

Mobile: (b)(6) Ex 6

R/m

Email - [scott.disavino@thomsonreuters.com](mailto:scott.disavino@thomsonreuters.com)

Reuters (Instant) Messaging - [scott.disavino.thomsonreuters.com@reuters.net](mailto:scott.disavino.thomsonreuters.com@reuters.net)

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**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: international standards  
**Date:** Wednesday, March 23, 2011 3:43:00 PM

---

FYI

---

**From:** scott.disavino@thomsonreuters.com [mailto:scott.disavino@thomsonreuters.com]  
**Sent:** Wednesday, March 23, 2011 3:39 PM  
**To:** OPA Resource; Burnell, Scott  
**Cc:** kevin.krolicki@thomsonreuters.com  
**Subject:** international standards

Hi Scott or whoever is on

We're looking at international nuclear safety standards or best practices – specifically related to venting of the pressure vessel, radiation filters and redundant monitors for equipment in the plants

It's come to light that Japanese safety regulators may not have included these best practices in their reactors

I don't expect the NRC will bad mouth the Japanese regulators – at least not on the record

Can you talk about how the United States rolls out best practices –

Any specific mention of the venting, filters and redundant systems would be great

We're just looking for information on background –

But anything you can say on the record would be great,

Thanks,

Scott

---

**Scott DiSavino**  
Correspondent  
Thomson Reuters

Phone: 1 646 223 6072

Mobile: (b)(6) Ex 6

Email - scott.disavino@thomsonreuters.com

Reuters (Instant) Messaging - scott.disavino.thomsonreuters.com@reuters.net

thomsonreuters.com

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**From:** Janberg, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: West Coast radioactive contamination  
**Date:** Wednesday, March 23, 2011 3:36:00 PM

---

**From:** Frank Valerga (b)(6)  
**Sent:** Wednesday, March 23, 2011 3:28 PM  
**To:** OPA Resource  
**Subject:** West Coast radioactive contamination

Ex 6

I am very concerned over the radioactive contamination from Japan. The first of the cloud already hit the west coast last Friday.

I know the the level is very low but it is still there. Radiation causes cancer and a little radiation causes a little cancer.

Is there a way to mitigate contamination from water? Will a activated charcoal filter reduce or eliminate the heavy metal radioactive isotopes that are being released?

Is the contamination from crops absorbed into the plant or can they be washed off? Are products from South East Asia (Japan, Korea, and other South East Asia countries) being monitored to prevent radioactive particles from being introduced into this country? I am especially concerned with plastics (children's toys and other injected or molded products) and with imported cars from those areas. Please release any information on reducing contamination and immediately start to monitor products.

I know that this is a very politically charged topic. I also know that hundreds if not thousands of lives depend on your decisions including your own children and grandchildren.

God be with you on these momentous decisions!

R/179

## Medina, Veronika

---

**From:** Couret, Ivonne  
**Sent:** Wednesday, March 23, 2011 1:54 PM  
**To:** Janbergs, Holly; Medina, Veronika  
**Subject:** FW: Reuters -- reactors & waste ?

Good info to keep available to respond. Ivonne

Ivonne L. Couret  
Public Affairs Officer  
Office of Public Affairs  
Media Desk  
[opa.resource@nrc.gov](mailto:opa.resource@nrc.gov)  
301-415-8200

Visit our online photo gallery. Incorporate graphics and photographs to tell your story!  
<http://www.nrc.gov/reading-rm/photo-gallery/>

2010-2011 Information Digest - Where you can find NRC Facts at a Glance  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/>

---

**From:** Burnell, Scott  
**Sent:** Wednesday, March 23, 2011 1:52 PM  
**To:** [Ross.Kerber@thomsonreuters.com](mailto:Ross.Kerber@thomsonreuters.com); McIntyre, David  
**Cc:** Couret, Ivonne  
**Subject:** RE: Reuters -- reactors & waste ?

Hi Ross;

104 operating reactors at 65 sites, all of which store spent fuel.

The decommissioning sites (or totally decommissioned apart from spent fuel storage) are Fort St. Vrain, Trojan, Rancho Seco, Big Rock Point, Maine Yankee, Yankee Rowe, Haddam Neck, Zion and Humboldt Bay.

Thanks.

Scott

---

**From:** [Ross.Kerber@thomsonreuters.com](mailto:Ross.Kerber@thomsonreuters.com) [<mailto:Ross.Kerber@thomsonreuters.com>]  
**Sent:** Wednesday, March 23, 2011 1:41 PM  
**To:** McIntyre, David; Burnell, Scott  
**Cc:** Couret, Ivonne  
**Subject:** Reuters -- reactors & waste ?

Hello all—

Thanks for ongoing help. A few quick questions:

1. How many total reactors currently operate in the US – 104, correct?
2. How many sites do these reactors occupy in the US – ? I've read there are 65 operating sites, and 10 decommissioned sites, correct?
3. Spent fuel is stored at all the operating sites, but NOT at all the decommissioned sites, right?

Deadline: asap.

Thanks & rgds – Ross

R/180

**Ross Kerber**

Correspondent

Reuters News

tel (617) 856 4341

mbl (b)(6)

[ross.kerber@thomsonreuters.com](mailto:ross.kerber@thomsonreuters.com)

[www.thomsonreuters.com](http://www.thomsonreuters.com)

---

**From:** McIntyre, David [<mailto:David.McIntyre@nrc.gov>]

**Sent:** Monday, March 21, 2011 5:21 PM

**To:** Burnell, Scott; Kerber, Ross (M Edit Ops)

**Cc:** Couret, Ivonne

**Subject:** RE: Reuters / Spent Fuel

Ross - here are some figures on spent fuel stored nationally. I don't have breakdowns by plants, unfortunately.

Yes, every plant stores fuel in pools. About 50 or so also store them in dry casks. Some closed down and decommissioned plants also have spent fuel stored onsite in casks – these include Maine Yankee, Yankee Rowe and Haddam Neck in New England.

**David McIntyre**

*Office of Public Affairs*

*U.S. Nuclear Regulatory Commission*

*(301) 415-8200*

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

From: Burnell, Scott

Sent: Monday, March 21, 2011 5:12 PM

To: McIntyre, David

Cc: Couret, Ivonne

Subject: FW: Reuters / Spent Fuel

Please sir.

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

From: Couret, Ivonne

Sent: Monday, March 21, 2011 5:08 PM

To: Burnell, Scott

Subject: FW: Reuters / Spent Fuel

Can you follow up with this guy - Let me know. Ivonne

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

From: Janbergs, Holly On Behalf Of OPA Resource

Sent: Monday, March 21, 2011 4:50 PM

To: Couret, Ivonne  
Subject: FW: Reuters / Spent Fuel

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

From: Ross Kerber [mailto:[Ross.Kerber@thomsonreuters.com](mailto:Ross.Kerber@thomsonreuters.com)]  
Sent: Monday, March 21, 2011 4:46 PM  
To: OPA Resource  
Subject: Reuters / Spent Fuel

Below is the result of your feedback form. It was submitted by

Ross Kerber ([Ross.Kerber@thomsonreuters.com](mailto:Ross.Kerber@thomsonreuters.com)) on Monday, March 21, 2011 at 16:45:49

---

comments: Hello -- Ross Kerber here, I'm a reporter for Reuters News in Boston. Can the NRC provide me info or fact sheets re: Spent Fuel stored at US nuclear reactors & plants? In particular: how many tons of spent fuel are stored at these plants cooling pools? Does every one of the 100+ reactors store spent fuel? If a long-term facility like Yucca Mountain were available, how much could be moved there currently? And, how much is kept in dry casks at local plants currently? Thanks & rgds -- Ross

organization: Reuters NEws

address1:

address2:

city:

state: ---

zip: [Ross.Kerber@thomsonr](mailto:Ross.Kerber@thomsonr)

country: [Ross.Kerber@thomsonreuters.com](mailto:Ross.Kerber@thomsonreuters.com)

phone: 617 856 4341 ~~3exto~~

---

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**From:** [Janbergs, Holly](#)  
**To:** [Medina, Veronika](#)  
**Subject:** FW: CNN - PIERS MORGAN TONIGHT  
**Date:** Wednesday, March 23, 2011 1:41:00 PM  
**Importance:** High

---

**From:** Janbergs, Holly  
**Sent:** Wednesday, March 16, 2011 6:23 PM  
**To:** Burnell, Scott  
**Subject:** FW: CNN - PIERS MORGAN TONIGHT  
**Importance:** High

**From:** Zann, Julie [<mailto:Julie.Zann@turner.com>]  
**Sent:** Wednesday, March 16, 2011 6:12 PM  
**To:** Janbergs, Holly  
**Subject:** CNN - PIERS MORGAN TONIGHT  
**Importance:** High

Hi Bethany,

Thanks for taking the time yesterday.

As I said on the phone, we would love to have the Chairman on, on Friday, March 18, 2011 to talk about the ongoing crisis in Japan and nuclear safety here at home.

It would be possible to pretape him, but we would love it if we could go live at 9:00 pm et.

A little info about Piers: Piers' work on the #1 show America's Got Talent, and as an established, respected international journalist uniquely enables us to appeal to a broad spectrum of the American public as well as nearly 300 million viewers across the globe. Choosing this platform reaches both loyal news viewers and those don't often tune in. As an interviewer, he understands the rare concept in today's media environment that he is not the focus: rather, the conduit for a fascinating and informative conversation. In addition to being the highest rated show on CNN, we broadcast here domestically (and pulling in over 2 million viewers), we reach 300 million viewers internationally in prime time, so we know it is an ideal platform to take your message to the world.

I hope you've caught our coverage in the wake of the tsunami and seen the balanced way we are presenting the situation at home and abroad.

Please reach out to me when you can. We would be honored to have Chairman Jaczko join us.

Thanks in advance, and best,  
Julie

Julie Zann  
Editorial Producer  
CNN - Piers Morgan Tonight  
One Time Warner Center  
Seventh Floor - #05Q8  
New York, NY 10019  
Office: +1(212) 275-7526

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Cell: (b)(6)

Ex 6

**From:** Janbergs, Holly  
**To:** Medina, Veronika  
**Subject:** FW: Request for Jaczko on Anderson Cooper tonight  
**Date:** Wednesday, March 23, 2011 1:41:00 PM

---

**From:** Janbergs, Holly  
**Sent:** Wednesday, March 16, 2011 7:03 PM  
**To:** McIntyre, David  
**Subject:** Request for Jaczko on Anderson Cooper tonight

Kerry Rubin from Anderson Cooper's show on CNN is interested in having the Chairman on his show tonight. It would be a live interview around 10. Anderson Cooper is currently in Tokyo and she would like me to remind everyone that this show is aired internationally unlike Wolf Blitzer.

She can be reached on her cell at (b)(6) Ex 6  
at (b)(6) or you can try her colleague Ben Finley

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

R/182

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Please forward as needed:  
**Date:** Wednesday, March 23, 2011 12:55:00 PM

---

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

From: (b)(6) Ex 6  
Sent: Wednesday, March 23, 2011 12:52 PM  
To: OPA Resource  
Subject: Please forward as needed:

<<... Since they are apparently having some problems in Japan...  
quelling those nuclear fires... then perhaps they should burn some  
heavy-soot producing (diesel fuel?) fire at the same site(s) and allow  
the heavy smoke to mix the smoke with the really bad isotopes at the  
point of discharge, etc, so that the radioactive release will be  
(partially?) absorbed into the soot... and then fall-out much faster.

Thank you  
Sincerely,  
M. Bowen>>

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**From:** Harrington, Holly  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Couret, Yvonne  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Wednesday, March 23, 2011 9:57:58 AM

---

I don't feel a compelling need to help this individual beyond sending him to EPA and/or DOE.

Amy/Ron – you can provide him with the information below, if that helps. You can also direct him here: <http://www.usa.gov/Japan2011.shtml>

---

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Yvonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

Here are the media contacts from both EPA and DOE. Feel free to give these to members of the public as well, since everyone and his uncle has been calling us.

**NEWS MEDIA CONTACT FOR EPA:**

[press@epa.gov](mailto:press@epa.gov)  
202-564-6794

**NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY:**

(202) 586-4940

EPA's RadNet data is online, though not particularly readable. This page explains that EPA does indeed monitor for radiation and gives a link to RadNet:

<http://www.epa.gov/radiation/rert/monitoring.html>

---

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA

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person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**From:** McIntyre, David  
**To:** [Harrington, Holly](#); [Bonaccorso, Amy](#); [Burnell, Scott](#); [Janbergs, Holly](#); [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#); [Courret, Ivonne](#)  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Wednesday, March 23, 2011 9:59:08 AM

---

Ron has handled, I believe.

---

**From:** Harrington, Holly  
**Sent:** Wednesday, March 23, 2011 9:58 AM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Courret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

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Amy/Ron – you can provide him with the information below, if that helps. You can also direct him here: <http://www.usa.gov/Japan2011.shtml>

---

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Courret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

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<http://www.epa.gov/radiation/rert/monitoring.html>

---

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer

**Cc:** Deavers, Ron

**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)

Thanks,

Amy

**From:** Deavers, Ron  
**To:** Harrington, Holly; McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?  
**Date:** Wednesday, March 23, 2011 9:59:53 AM

---

I talked to this guy yesterday and provided him the information. He did not leave the conversation with any open questions. I think we can consider this case closed.

Ron Deavers

---

**From:** Harrington, Holly  
**Sent:** Wednesday, March 23, 2011 9:58 AM  
**To:** McIntyre, David; Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

I don't feel a compelling need to help this individual beyond sending him to EPA and/or DOE.

Amy/Ron – you can provide him with the information below, if that helps. You can also direct him here: <http://www.usa.gov/Japan2011.shtml>

---

**From:** McIntyre, David  
**Sent:** Tuesday, March 22, 2011 4:58 PM  
**To:** Bonaccorso, Amy; Burnell, Scott; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron; Harrington, Holly; Couret, Ivonne  
**Subject:** RE: Radiation Question - Any Answers?

Did anyone respond to this? The guy is probably so annoying that they'll tell him anything to get him off the phone.

For future reference:

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[press@epa.gov](mailto:press@epa.gov)  
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<http://www.epa.gov/radiation/rert/monitoring.html>

**From:** Bonaccorso, Amy  
**Sent:** Tuesday, March 22, 2011 1:54 PM  
**To:** Burnell, Scott; McIntyre, David; Janbergs, Holly; Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Radiation Question - Any Answers?

I just had a person call me and insist that we monitor background radiation and have numbers....he said we stopped releasing them after Chernobyl.

I have his name and number and he wants a call back.

He says other agencies are sending him here....saying we have numbers. An EPA person, he told me, said they do not monitor radiation (?)

I gave him the EPA's email address for radiation questions.

Can anyone help me here? Am I missing anything?

Gordon Anderson

(b)(6)  


Thanks,

Amy

**From:** [Janbergs, Holly](#) on behalf of [OPA Resource](#)  
**To:** [Courret, Yvonne](#)  
**Subject:** FW: Reuters TV Interview Request- Mr. Borchardt  
**Date:** Wednesday, March 23, 2011 10:57:00 AM

---

**From:** [Mari.Saito@thomsonreuters.com](mailto:Mari.Saito@thomsonreuters.com) [<mailto:Mari.Saito@thomsonreuters.com>]  
**Sent:** Wednesday, March 23, 2011 10:52 AM  
**To:** OPA Resource  
**Subject:** Reuters TV Interview Request- Mr. Borchardt

Hello,

Reuters TV would like to request a live TV interview with Mr. Borchardt on the Japanese nuclear disaster. Reuters TV is very interested in interviewing Mr. Borchardt about the ongoing efforts to control the plants in Fukushima, Japan. We are especially interested in the reports of higher radiation at reactor 2 in Fukushima and the impact on water and food in Japan.

Second part of the interview will concentrate on nuclear power plants in the U.S., and how the events in Japan will impact regulation of the nuclear industry.

The interview will be live in our studio at 1333 H. Street, NW. Our Reuters anchor in New York will conduct the interview remotely, and the interview will be 10-15 minutes long. The interview will be shared with our Reuters text correspondents, Reuters.com, and Reuters Insider.

Thank you so much, and I look forward to hearing from you.

**Mari Saito**  
Production Assistant  
Reuters Insider  
Thomson Reuters

Phone: 1-202-354-5858

Mobile: (b)(6) Ex 6

[mari.saito@thomsonreuters.com](mailto:mari.saito@thomsonreuters.com)  
[thomsonreuters.com](http://thomsonreuters.com)

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R/185

**From:** [Janbergs, Holly](#) on behalf of [OPA Resource](#)  
**To:** [Courret, Ivonne](#)  
**Subject:** FW: NRC certification of GE reactor design  
**Date:** Wednesday, March 23, 2011 12:25:00 PM

---

**From:** [scott.disavino@thomsonreuters.com](mailto:scott.disavino@thomsonreuters.com) [<mailto:scott.disavino@thomsonreuters.com>]  
**Sent:** Wednesday, March 23, 2011 12:21 PM  
**To:** OPA Resource; Burnell, Scott  
**Cc:** [eileen.ogradey@thomsonreuters.com](mailto:eileen.ogradey@thomsonreuters.com); [ayasha.rascoe@thomsonreuters.com](mailto:ayasha.rascoe@thomsonreuters.com)  
**Subject:** RE: NRC certification of GE reactor design

Hi Scott or whoever is on at the NRC,

Ayesha Rascoe sent this over on the ESBWR – I'm guessing it's some step in the process to certifying the design, which I thought was not to be done until the fall of 2011

I guess I have a few questions

- Does this filing have anything to do with the events in Japan
- What does this filing mean
- does the NRC still expect to make a decision on the modified AP1000 and ESBWR designs in the fall of 2011
- And does the NRC expect to make decisions on any other designs this year

Thanks,

Scott

**Scott DiSavino**  
Correspondent  
Thomson Reuters

Phone: 1 646 223 6072

Mobile: (b)(6) Ex 6

Email - [scott.disavino@thomsonreuters.com](mailto:scott.disavino@thomsonreuters.com)

Reuters (Instant) Messaging - [scott.disavino.thomsonreuters.com@reuters.net](mailto:scott.disavino.thomsonreuters.com@reuters.net)

[thomsonreuters.com](http://thomsonreuters.com)

**From:** Rascoe, Ayesha r. (M Edit Ops)  
**Sent:** Wednesday, March 23, 2011 11:13 AM  
**To:** DiSavino, Scott P. (M Edit Ops)  
**Subject:** NRC certification of GE reactor design

R/180

Hey Scott,

This was in Federal Register today, its talking about design certification for the GE ESBWR reactor design. I don't know if this means they are certifying design or if this is news, so wanted to run by you.

[http://www.ofr.gov/OFRUpload/OFRData/2011-06839\\_PI.pdf](http://www.ofr.gov/OFRUpload/OFRData/2011-06839_PI.pdf)

Ayesha

**Ayesha Rascoe**  
Energy Reporter  
Thomson Reuters

Phone: 1-202-310-5683

Mobile: (b)(6) Ex 6

ayesha.rascoe@thomsonreuters.com  
thomsonreuters.com

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**From:** [Janbergs, Holly](#)  
**To:** [Bonaccorso, Amy](#)  
**Subject:** RE: Public - Question  
**Date:** Wednesday, March 23, 2011 9:36:00 AM

---

I think your response sounds fine – if you want you could include inspection reports or something, I guess, here:

[http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/listofrpts\\_body.html#ano](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/listofrpts_body.html#ano)

or each plant page has a safety performance summary:

<http://www.nrc.gov/reactors/operating/list-power-reactor-units.html>

I don't know of any such list, or why on earth we would publicize such a thing if we had one. If he wants to go digging for plants with issues, he can look through all their safety findings individually and draw his own conclusions.

---

**From:** Bonaccorso, Amy  
**Sent:** Wednesday, March 23, 2011 9:35 AM  
**To:** Janbergs, Holly  
**Subject:** FW: Public - Question

Bethany:

I don't believe we have such a list – but thought I would ask you before responding. We are more into emphasizing the safety of the U.S. plants and ensuring that they meet our requirements – not saying any are “at risk.” I could also tell him that we promote a strong safety culture and refer him to that public website. Any suggestions?

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Wednesday, March 23, 2011 8:37 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Luke Taylor

(b)(6)

Ex 6

Re: He is looking for an NRC list of the most at risk plants in U.S. – The ones with the most violations

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/187

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Wednesday, March 23, 2011 8:48:00 AM

---

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

From: NRCWEB Resource  
Sent: Wednesday, March 23, 2011 8:48 AM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: Rod Davis [(b)(6)] Ex 6  
Sent: Tuesday, March 22, 2011 8:18 PM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Rod Davis [(b)(6)] Ex 6 on Tuesday, March 22, 2011 at 20:17:47

---

comments: I want to submit a method for storage of the nuclear waste from our reactor plants, i.e., spent fuel rods.

Can you provide me with a point of contact?

organization: [(b)(6)]

address1: [(b)(6)]

address2: [(b)(6)] Ex 6

city: [(b)(6)]

state: ---

zip: [(b)(6)]

country: [(b)(6)]

phone: [(b)(6)]

---

R/188

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Wednesday, March 23, 2011 8:53:00 AM

---

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

From: NRCWEB Resource  
Sent: Wednesday, March 23, 2011 8:49 AM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: Kellie Maclean (b)(6) Ex 6  
Sent: Wednesday, March 23, 2011 12:38 AM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Kellie Maclean (b)(6) Ex 6 on Wednesday, March 23, 2011 at 00:38:07

---

comments: (b)(6) and concerned citizen, I request that a serious examination or closing the aging nuclear power plants in Southern California and across the country. Please hear me out.

The Red Cross website sites a 60% risk of a 6.7 or greater earthquake in Southern California. (Ironically, the Red Cross website includes earthquake, tsunami, pandemic flu, but does not include nuclear accident information.) We should take a the tragedy in Japan as a lesson and the last 40 years of disaster-free nuclear power as a gift and avert disaster before it happens. As all financial accounts carry the disclaimer - nuclear power should carry the same warning - "Past performance is no guarantee of future results, and current performance may be lower..." (especially as these plants age!)

Please think if of the innocent lives to be lost, the irreplaceable natural beauty of our Southern California coast, as well as the utter economic disaster that this would mean for our nation. The real estate alone is among the most costly in the nation, as well as the industrial and environmental toll.

This should be a wake up call to American's! We can conserve the 20% of energy that nuclear plants provide, we can and will embrace new greener energy sources, including zero energy building (which could revitalize an ailing construction industry). The day after a disaster is too late. The people of Japan will attest to that.

Unless we have a Superman in the wings, nuclear power is too unstable to roll the dice with. The Hindenburg marked the end of the airship era, Japan should mark the end of the nuclear era in the United States.

With utter sincerity,  
Kellie Maclean

R/189

organization:

address1:

address2:

city:

state:

zip:

country:

phone:

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Wednesday, March 23, 2011 8:48:00 AM

---

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

From: NRCWEB Resource  
Sent: Wednesday, March 23, 2011 8:48 AM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: Brian Chalmers (b)(6) Ex 6  
Sent: Tuesday, March 22, 2011 9:29 PM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Brian Chalmers (b)(6) Ex 6 on Tuesday, March 22, 2011 at 21:29:04

---

comments: Is it feasible to apply water absorbing polymers to cover spent fuel pools in Japan to slow evaporation.

Brian

organization:

address1: (b)(6)  
address2:  
city: (b)(6) Ex 6  
state: ---  
zip: (b)(6)  
country: (b)(6)  
phone: (b)(6)

---

R/190

**From:** Janberg, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Events in Japan  
**Date:** Wednesday, March 23, 2011 7:33:00 AM

---

Aww ☺

**From:** Mary Lariviere (b)(6) Ex 6  
**Sent:** Wednesday, March 23, 2011 2:27 AM  
**To:** OPA Resource  
**Subject:** Events in Japan

Good Morning!

I would just like to thank you for all of the help you are giving us here in Japan during these very trying times! It is very much appreciated!

Thank You!

V/R,  
Mary

R/191

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: cooling the rods  
**Date:** Wednesday, March 23, 2011 7:32:00 AM

---

**From:** LUKE LICZKOWSKI (b)(6) Ex 6  
**Sent:** Tuesday, March 22, 2011 7:08 PM  
**To:** OPA Resource  
**Cc:** (b)(6) Ex 6  
**Subject:** cooling the rods

Use dry ice (CO2) - it will disperse the hydrogen as CO2 is heavy and will make the temp. difference much higher  
Regards, Luke Liczkowski

R/1192

## Ghneim, Munira

---

**From:** Ghneim, Munira  
**Sent:** Thursday, March 24, 2011 9:50 AM  
**To:** Hannah, Roger  
**Subject:** Joseph Buonanno returning your call

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Organization - Daily Local News -PA

Contact - Joseph Buonanno

Phone - 610-256-1852 ~~7570~~

Email - (b)(6)

Request - Would like comment from NRC regarding the MSNBC analysis on safety of nuclear power plants in the United States.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/193

**Ghneim, Munira**

---

**From:** Ghneim, Munira  
**Sent:** Wednesday, March 23, 2011 11:13 AM  
**To:** Couret, Ivonne  
**Subject:** Joseph Buonanno - Daily Local News -PA

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Organization – Daily Local News -PA

Contact - Joseph Buonanno

Phone – 610-256-1852 ~~EX 6~~

Email [redacted] @ [redacted] Ex. 6

Request – Would like comment from NRC regarding the MSNBC analysis on safety of nuclear power plants in the United States.

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

R/1/9/11

**Medina, Veronika**

---

**From:** Couret, Ivonne  
**Sent:** Wednesday, March 23, 2011 2:08 PM  
**To:** Medina, Veronika  
**Subject:** FW: Info / Scientific American Magazine

Asked him to email questions

Ivonne L. Couret  
Public Affairs Officer  
Office of Public Affairs  
Media Desk  
[opa.resource@nrc.gov](mailto:opa.resource@nrc.gov)  
301-415-8200

Visit our online photo gallery. Incorporate graphics and photographs to tell your story!  
<http://www.nrc.gov/reading-rm/photo-gallery/>

2010-2011 Information Digest - Where you can find NRC Facts at a Glance  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/>

---

**From:** Akstulewicz, Brenda  
**Sent:** Wednesday, March 23, 2011 12:28 PM  
**To:** Couret, Ivonne  
**Subject:** Info / Scientific American Magazine

Adam Piore

(b)(6)

EXLO

Info for story on plant safety

**Brenda Akstulewicz**  
Administrative Assistant  
Office of Public Affairs  
301-415-8209  
[brenda.akstulewicz@nrc.gov](mailto:brenda.akstulewicz@nrc.gov)



R/195

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Wednesday, March 23, 2011 2:39 PM  
**To:** Couret, Ivonne  
**Subject:** Media - California Current

Bill Kelley  
California Current

(b)(6)

(626-441-2112) *Ex 6*

Re: Earthquake/Diablo Plant  
He had a deadline today

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

*R/196*

**Deavers, Ron**

---

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 3:53 PM  
**To:** (b)(6) G  
**Subject:** RE: REPLY West Coast radioactive contamination

We understand your concern.

As the Nuclear Regulatory Commission has said, we do not expect to see radiation at harmful levels reaching the U.S. from damaged Japanese nuclear power plants.

As part of the federal government's continuing effort to make our activities and science transparent and available to the public, the Environmental Protection Agency (EPA) will continue to keep all RadNet data available in the current online database. In addition, EPA plans to work with its federal partners to deploy additional monitoring capabilities to parts of the western U.S. and U.S. territories.

As always, EPA is utilizing this existing nationwide radiation monitoring system, RadNet, which continuously monitors the nation's air and regularly monitors drinking water, milk and precipitation for environmental radiation. The RadNet online searchable database contains historical data of environmental radiation monitoring data from all fifty states and U.S. territories.

The Food and Drug Administration (FDA) and U.S. Department of Agriculture continues to ensure all our imported food remains safe as they do every day.

At this time, the NRC does not believe protective measures are necessary in the United States. In the event 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.

The FDA, U.S. Postal Service, and Customs and Border Patrol are of course closely monitoring the situation in Japan and all are working with other U.S. agencies and or the Japanese government to continue to ensure that imported food, mail, and airplanes remains safe.

**From:** Frank Valerga (b)(6) G  
**Sent:** Wednesday, March 23, 2011 3:28 PM  
**To:** OPA Resource  
**Subject:** West Coast radioactive contamination

I am very concerned over the radioactive contamination from Japan. The first of the cloud already hit the west coast last Friday. I know the the level is very low but it is still there. Radiation causes cancer and a little radiation causes a little cancer. Is there a way to mitigate contamination from water? Will a activated charcoal filter reduce or eliminate the heavy metal radioactive isotopes that are being released? Is the contamination from crops absorbed into the plant or can they be washed off? Are products from South East Asia (Japan, Korea, and other South East Asia countries) being monitored to prevent radioactive particles from being introduced into this country? I am especially concerned with plastics (children's toys and other injected or molded products) and with imported cars from those areas. Please release any information on reducing contamination and immediately start to monitor products. I know that this is a very politically charged topic. I also know that hundreds if not thousands of lives depend on your decisions including your own children and grandchildren. God be with you on these momentous decisions!

R/197

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Radiation Question  
**Date:** Wednesday, March 23, 2011 7:33:00 AM

---

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

From: (b)(6) Ex 6  
Sent: Wednesday, March 23, 2011 5:55 AM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) Ex 6  
on Wednesday, March 23, 2011 at 05:54:41

---

comments: Can a mother still breastfeed if exposed to radiation/low levels of radioactive iodine? (b)(6)  
(b)(6) while drinking the water there. The water has levels of radioactive iodine that exceeded recommended limits for children but is currently safe for adults. There is not much advice for breastfeeding mothers and how they can best protect their babies during this disaster. Any advice would be much appreciated.

Kind regards  
Marie

contactName: Marie

phone: (b)(6)

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R/198

**Deavers, Ron**

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**From:** OPA Resource  
**Sent:** Wednesday, March 23, 2011 5:08 PM  
**To:** Couret, Ivonne; Deavers, Ron; Bonaccorso, Amy  
**Subject:** FW: Events in Japan

6 Something nice for a change!

**From:** Mary Lariviere (b)(6)  
**Sent:** Wednesday, March 23, 2011 2:27 AM  
**To:** OPA Resource  
**Subject:** Events in Japan

Good Morning!

I would just like to thank you for all of the help you are giving us here in Japan during these very trying times!  
It is very much appreciated!

Thank You!

V/R,  
Mary

R/199

**Deavers, Ron**

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Wednesday, March 23, 2011 8:48 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

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

**From:** NRCWEB Resource  
**Sent:** Wednesday, March 23, 2011 8:48 AM  
**To:** OPA Resource  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"

6

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

**From:** Brian Chalmers (b)(6)  
**Sent:** Tuesday, March 22, 2011 9:29 PM  
**To:** NRCWEB Resource  
**Subject:** Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

Brian Chalmers (b)(6) on Tuesday, March 22, 2011 at 21:29:04

---

comments: Is it feasible to apply water absorbing polymers to cover spent fuel pools in Japan to slow evaporation.

Brian

organization:

address1: (b)(6)

address2:

city: (b)(6)

state: --

zip: (b)(6)

country: (b)(6)

phone: (b)(6)

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R/200

**Deavers, Ron**

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**From:** PDR Resource  
**Sent:** Wednesday, March 23, 2011 10:20 AM  
**To:** Deavers, Ron  
**Subject:** RE: Nuclear Power Plant in (b)(6)

Hi Ron,

Thank you for copying us on your reply. We will assist her on how to obtain copies of the microfiche documents (cited in Legacy Library), and any other assistance in locating publicly available documents on this topic.

Karen  
PDR

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 10:15 AM  
**To:** Anna Deusterman  
**Cc:** PDR Resource  
**Subject:** RE: Nuclear Power Plant in (b)(6)

Anna,

The information about the decommissioned plant at (b)(6) is available from our Public Document Room (cc'd on this message) at Accession numbers: 7907190703, 8301100006, 8303160012.

Please contact our Public Document Room at 1-800-397-4209 or the email in the cc to this message.

Ron Deavers

**From:** Anna Deusterman (b)(6)  
**Sent:** Wednesday, March 23, 2011 12:41 AM  
**To:** Deavers, Ron  
**Subject:** Re: Nuclear Power Plant in (b)(6)

Thank you for your reply. I am inquiring about the decommissioned nuclear plant in (b)(6) I would like to know if radioactive waste was stored on site and/or where it was transported to.

Thanks,

Anna

On Tue, Mar 22, 2011 at 2:50 PM, Deavers, Ron <Ron.Deavers@nrc.gov> wrote:

We understand you are concerned about the nuclear plant in (b)(6) You are getting ready to move there and would like some questions answered before you do move. Most of our Nuclear Power Plants store some nuclear waste at the plant sites. We have two sites in (b)(6) The (b)(6) site is 35 miles north west of (b)(6) and information about the site is available at (b)(6)

R/201

The (b)(6) site is located 28 miles south east of (b)(6) and information about the site is available at (b)(6) and (b)(6).

**From:** Janbergs, Holly  
**To:** Harrington, Holly  
**Subject:** FW: Indian Point Nuclear Reactors and the Ramapo fault  
**Date:** Tuesday, March 22, 2011 7:48:00 AM

---

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

**From:** Bonaccorso, Amy  
**Sent:** Monday, March 21, 2011 4:12 PM  
**To:** Janbergs, Holly  
**Subject:** FW: Indian Point Nuclear Reactors and the Ramapo fault

I am not sure if this is really a public inquiry type of thing or not. What do you think? He seems to be specific...and it's not Japan related.

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

**From:** Robbins, Gary [<mailto:gary.robbins@uconn.edu>]  
**Sent:** Saturday, March 19, 2011 1:21 PM  
**To:** NRC Allegation  
**Subject:** Indian Point Nuclear Reactors and the Ramapo fault

I worked as a (b)(6) I am now a Professor of Geology at the University of Connecticut. Recently on the National news, allegations regarding the safety of Indian Point have been made with regard to the Ramapo fault. In the late 70s I was involved in a yearlong hearing on the matter before the NRC appeals board. That hearing involved the testimony of many seismologists and geologists including Charles Richter himself. I bring this to your attention so your staff might be familiar with the case and testimony if they review the situation. It was ruled a non-problem at that time. If you do not have the records and want them, I can make the records I have maintained available. I would be glad to speak with your staff on the matter.

Gary Robbins

Gary A. Robbins

Professor of Geology

Department of Natural Resources and the Environment

University of Connecticut

1376 Storrs Road

W.B. Young Bldg, Room 313

Storrs, CT 06269-4087

Office: (860) 486-2448

Fax (860) 486-5408

E-mail: [gary.robbins@uconn.edu](mailto:gary.robbins@uconn.edu)

website: <http://www.water.uconn.edu> <<http://www.water.uconn.edu/>>

R/2002

**From:** [Tobin, Jennifer](mailto:Tobin.Jennifer)  
**To:** [sugai@mext.go.jp](mailto:sugai@mext.go.jp)  
**Subject:** RE: Are you ok?  
**Date:** Tuesday, March 22, 2011 10:14:00 AM

---

Dear Rio,  
I am so happy to hear that you and your family are ok. How scary to live through those type of events!

There has been a lot of focus on the status of the reactors but I assume that you're also working on ensuring that Category 1 and 2 sources are still safe and secure? Are there a lot of them used in the area that was hit by the earthquake and tsunami? I know that your job must be very busy right now with the emergency situation so I appreciate our email discussion.

I hope to see you at the Code meeting in May so that we can celebrate our (b)(6) together!

Take care,  
-Jenny

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

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

From: [sugai@mext.go.jp](mailto:sugai@mext.go.jp) [<mailto:sugai@mext.go.jp>]  
Sent: Wednesday, March 16, 2011 8:38 AM  
To: Tobin, Jennifer  
Subject: Re: Are you ok?

Hi Jenny,

Thank you very much for your concern. I am fine and my family is also safe.  
My (b)(6) but now I could make sure that they are all right!

As you know, the nuclear reactors in the devastated area are still in trouble, so we at the relevant government ministry or agency are busy making arrangements to deal with emergency situations. I think that this will be an unforgettable experience for me...

Best regards,

Rio

---

Rio SUGAI (Ms.)  
Office of Radiation Regulations, Nuclear Safety Division,  
Science and Technology Policy Bureau,  
Ministry of Education, Culture, Sports, Science and Technology (MEXT),  
JAPAN  
Phone: +81-3-6734-3836 Fax: +81-3-6734-4048 E-mail: [sugai@mext.go.jp](mailto:sugai@mext.go.jp)

"Tobin, Jennifer" <[Jennifer.Tobin@nrc.gov](mailto:Jennifer.Tobin@nrc.gov)> wrote on 2011/03/16 03:27:40:

> Hi Rio,

R/203

> I am worried about you and am just hoping that things are ok (or at  
> least as good as can be expected). I hope that you are safe and sound.

>

> Take care,

> -Jenny

>

> Jenny (Tobin) Wollenweber

> Export Licensing Officer

> Office of International Programs

> office: 301-415-2328

NRC Blackberry: (b)(6)

>

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Hayden, Elizabeth  
**Subject:** FW: request for a NRC representative at Montgomery College Wellness Fair  
**Date:** Tuesday, March 22, 2011 7:37:00 AM

---

**From:** Harrison, Christine [mailto:Christine.Harrison@montgomerycollege.edu]  
**Sent:** Monday, March 21, 2011 4:51 PM  
**To:** OPA Resource  
**Cc:** Fleming, Lila  
**Subject:** request for a NRC representative at Montgomery College Wellness Fair

Dear Brenda,

My name is Chris Harrison and I got your name I got your name from my (b)(6) (b)(6) He spoke with you earlier today. I am a faculty member at Montgomery College – Rockville Campus. We hold an annual Wellness Fair addressing all aspects of health and wellness for our students and community members. In light of the current situation in Japan I would like to request that a representative from the NRC attend our Wellness Fair this year to help educate individuals generally about how a nuclear power plant works, safety practices for US nuclear plants, and common misconceptions about radiation and nuclear power in relation to individual health and environmental health. This is a great opportunity for our students to develop a better understanding of nuclear power.

The fair is on Wednesday April 6th from 9:30 – 1:30 in the main gym on the Rockville campus of Montgomery College. The NRC representative would not be speaking to a large group of individuals. A table or tables would be provided (as well as an electrical outlet if needed), and the representative would be interacting with individuals who stopped by. In the past several years we have had over 500 attendees and we expect this year to be similar in attendance.

I appreciate your consideration to be a part of the Montgomery College Wellness Fair. Please let me know if you have any questions and I look forward to your reply.

Sincerely,

Chris

*Chris Harrison  
Montgomery College  
Associate Professor  
Health Enhancement, Exercise Science and Physical Ed. Dept.  
240-567-7579*

B/2011

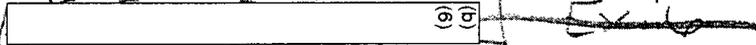
**Ghneim, Munira**

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**From:** Ghneim, Munira  
**Sent:** Wednesday, March 23, 2011 10:08 AM  
**To:** Bonaccorso, Amy  
**Subject:** Dale Robert Moore Citizen ~~Ex. 6~~

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good Morning Amy,

Dale would like to take to someone about the precautionary steps he can take when receiving shipments from Japan. Dale may be reached ~~Ex. 6~~  
at  ~~Ex. 6~~

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

r/eos

**Deavers, Ron**

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**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Thursday, March 24, 2011 7:24 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Shut Down Indian Point Nuclear Power Plant ASAP

**From:** (b)(6) 6  
**Sent:** Wednesday, March 23, 2011 5:46 PM  
**To:** OPA Resource  
**Subject:** Shut Down Indian Point Nuclear Power Plant ASAP

Dear Ms. Hayden,

I found it incredibly offensive to read that you found the issues at the Indian Nuclear Power Plant to be "really not a serious concern". As someone who (b)(6) I find the history at that plant a huge concern and wish my government would as well. But unfortunately, you seem more interested in working for the nuclear power industry than the citizens whose health you are supposed to protect.

I agree with Governor Cuomo, Indian Point Nuclear power plant needs to be shut down now, immediately. There should not be an old, faulty nuclear power plant within 50 miles of New York City. I ask you to reevaluate your plans for Indian Point, recognize the dangers in having such a plant in operation, and act immediately.

Sincerely,

Jennifer Savage

R/2006

**Deavers, Ron**

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Thursday, March 24, 2011 7:27 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: waste disposal

**From:** Ferren MacIntyre (b)(6)  
**Sent:** Wednesday, March 23, 2011 8:17 PM  
**To:** OPA Resource  
**Subject:** waste disposal

I am a (b)(6) and for about 40 years I have wondered why nuclear waste is not disposed off in what I consider the obvious manner.

It is true that material subducted into the mantle may reappear in volcanoes, but the time required is on the order of a million years, long enough to subdue most radionuclides. (If some long-lived reactor-produced isotopes \*were\* vented by volcanoes, would that be worse than the common practice of reactor operators today, venting their own wastes by hiding them in the raised background of a catastrophe at someone else's reactor?)

The problem then is ensuring that the waste \*is\* subducted, and not stuck on the nose of the continental crust, or released to seawater before being dragged down.

2 approaches:

'Needle bearings': package the waste in long, small-diameter tubes. Emplace parallel to the subduction site, so that they help roll the descending crust under the continent.

'Drill holes': Sea-floor drilling is a known art. Emplace tubes vertically in subducting crust.

Buried in anoxic mud, oxidative corrosion is minimal. One might use plain steel tubes, capping the drill holes with cement. Circulation of water through sea-floor crust is pronounced at hot ridges, but minimal at cold subduction zones.

I have never found a marine geologist who thought this a good idea; but I never got one to tell me why. Nor have I found a good research paper on the subject. It seems to me we're missing a good bet here.

Call emeritus professor Dr John Knauss at U Rhode Island Grad School of Oceanography if you want to check up on my credentials. He used to be my dean. He could probably tell you why the idea won't work--assuming it won't.

-- Ferren

(Dr) Ferren MacIntyre (b)(6)  
(b)(6)  
(b)(6)

R/2007

**Deavers, Ron**

---

**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Thursday, March 24, 2011 7:28 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Radiation Question

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

6 From: (b)(6)  
Sent: Wednesday, March 23, 2011 10:14 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) on Wednesday, March 23, 2011 at 22:13:44

---

comments: I am your average (b)(6) I have lived my life in (b)(6) and remember Three Mile Island and Chernobyl accidents well. Even the red-neck stupidity with the fire at Browns Ferry Nuclear Plant.

My question is:

How is the disaster at Fukushima the equivalent of the disaster at Three Mile Island?

An explanation of the rating system might help.

With TMI, it was reported that no radioactive contamination made it into the population, yet Fukushima has radioactive contamination in vegetation, water, and animals located many miles from the plant. There were no explosions with TMI. Fukushima has had several. The core at TMI was only two and a half hours without circulating water, resulting in the meltdown. Although the reactors at Fukushima went into shutdown mode, they have gone several days without circulating water. Would they not be much hotter than the spent fuel rods? The reactors may not have blown, but common sense tells me the core melted days ago... although I am by no means an expert. Everything about Fukushima seems exponentially worse than what happened at TMI.

contactName: ~~Karen Harris~~

phone: (b)(6)

---

R/2008

Deavers, Ron

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From:  Floyd Rudmin (b)(6) 6  
Sent: Thursday, March 24, 2011 8:05 AM  
To: OPA Resource  
Subject: concern about nuclear safety regulatory failures

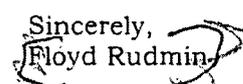
Good afternoon,

Please consider the following nuclear safety concerns:

1) Japan did NOT have redundant power transmission lines to their reactors and thus lost cooling. If an event, like a plane crash, were to knock out a reactor's transmission lines AND your back-up power supply, do regulations require that there be redundant transmission lines to provide power from the grid? If not, please consider requiring such safety redundancy, for example, in underground conduits.

2) Do you require that there be security protection from a bomb inside a reactor's underwater piping that extends into a lake, river, or ocean? If not, please consider requiring such safety, for example, by a blow-out weak point in the piping, between the pipe opening and the reactor. That way, hydraulic back-pressure from an explosion at the pipe opening would not reach the reactor.

I know your PR job is to assure me that everything is fine and safe. But Tokyo Electric also had been assuring everybody that everything is fine and safe. In this instance, in addition to your assurance reply, please also pass my email up within your offices to some level where an engineer or responsible party will consider and act upon my concerns.

Sincerely,  
 Floyd Rudmin

R/209

**Deavers, Ron**

---

**From:** J Stuckey [Info@SouthernSportsmanOnline.com]  
**Sent:** Thursday, March 24, 2011 9:02 AM  
**To:** NRC Allegation  
**Subject:** possible way to get water to Jap reactor

6

Use a small track bulldozer with a water cannon and hose mounted on the frame. Assemble a basic robotic remote controlled steering unit on the steering clutches and a camera. Turn on the nozzle and control the water from the source.

(b)(6)

R/210

From: Michael Mulligan (b)(6) 6  
Sent: Thursday, March 24, 2011 10:58 AM  
To: NRC Allegation  
Subject: Re: Fukushima safety task force

By Tennille Tracy  
OF DOW JONES NEWSWIRES

WASHINGTON (Dow Jones)--Nearly 30% of U.S. nuclear power plants fail to report equipment defects that present "substantial" safety risks because of contradictions in the federal law, according to the Nuclear Regulatory Commission's inspector general.

If the issue isn't resolved, "the margin of safety for operating reactors could be reduced," the inspector general says.

In a new report, the Office of Inspector General says U.S. nuclear plants are confused about what they are required to report to federal regulators. That's because one section of the law, known as Part 21, requires them to report defects that can cause a loss of safety functions while another section of the law requires them to report only actual losses of safety functions.

"Licensees representing at least 28 percent of the operating reactor fleet do not, as standard practice, notify NRC of defects under Part 21 unless they are reportable under event reporting regulations," the report says.

The safety of U.S. nuclear facilities has come under question in recent days as the nuclear crisis at Japan's Fukushima plant reveals weaknesses in nuclear-plant technology. The U.S. Nuclear Regulatory Commission voted Wednesday to conduct a major safety review of the 104 nuclear reactors operating in the US.

The Nuclear Regulatory Commission has been aware of the reporting lapses since at least 2009. In that time, the commission identified 24 instances, between December 2009 and September 2010, in which nuclear plants didn't report defects under Part 21.

These instances pose "a substantial safety hazard" and prevent federal regulators from spotting manufacturer defects that could surface at other plants around the country, the inspector general said.

Because U.S. plants are failing to report defects as a result of confusion over the law, the Nuclear Regulatory Commission hasn't imposed violations or civil penalties. It has not imposed any civil penalties or significant enforcement actions for the reporting failures in at least eight years, the inspector says.

-By Tennille Tracy, Dow Jones Newswires; 202-862-6619 [tennille.tracy@dowjones.com](mailto:tennille.tracy@dowjones.com)

From: Michael Mulligan (b)(6) 6  
To: [allegation@nrc.gov](mailto:allegation@nrc.gov)  
Sent: Thu, March 24, 2011 9:52:21 AM  
Subject: Fukushima safety task force

7/2/11

Dear sir,

Based on the investigation of safety nationwide on the nuclear fleet...could I talk to somebody about LERs and part 21 reporting requirements?

The theme is LERs reporting and part 21 requirements have been eviscerated and are generally not enforced in the last decade...

How do you report issues you wish the new safety task force would look into?

I would suggest the NRC blog...but they have lost any credibility with me in the recent past. Instead a blog for all of the people of the USA...you turned it into a extreme pro nuclear blog of exclusive people.

I would have some suggestions and criticisms concerning the task force if NRC officials would like to talk to me.

Mike

AUDIT OF NRC'S IMPLEMENTATION OF 10 CFR PART 21, REPORTING OF DEFECTS AND NONCOMPLIANCE (OIG-11-A-08)

**Ghneim, Munira**

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**From:** Ghneim, Munira  
**Sent:** Thursday, March 24, 2011 11:28 AM  
**To:** Bonaccorso, Amy  
**Subject:** Mary Garland ~~Ex. 6~~

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Amy,

Mary Garland would like to know if someone could answer a few questions for her regarding continuing liability on land with radiation. Ex. 6

You can reach her at [redacted] (b)(6) or by email at [redacted] (b)(6) Ex. 6

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Information Services  
301-415-1170

re/2/12

**Deavers, Ron**

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**From:** Gary Steadman (b)(6) 6  
**Sent:** Thursday, March 24, 2011 12:30 PM  
**To:** Deavers, Ron  
**Subject:** RE: REPLY FW: japan doc from Proteus Applied Technologies

6 Dear Sir.

I have taken the liberty of forwarding the main content of your reply to my colleagues at Proteus, to my Member of Parliament at Westminster and most particularly, the UK Foreign and Commonwealth Japan Crisis Team in London (all of whom have been working collectively for some time in regard of the crisis). It was the latter FCO Crisis Team, who have informed us that they are working in partnership with your own, and who that instructed us to contact you directly with our offers of help and who provided the relevant contact information to reach you.

It was also a member of the UK Crisis Team, an American gentleman staffed as the teams nuclear expert, who informed us he had over 30 years experience in the nuclear industry. It was also this gentleman who appraised our assistance documentation and instructed us to pass it to your own team as quickly as possible, giving the view that he thought it could be very useful.

I should also inform you that the UK FCO Crisis Team have already passed the same information we gave you to the UK Embassy in Japan, instructing them to forward it directly to the relevant Japanese authorities.

Regardless of which our offer of help still stands and our Proteus Science Team stands ready to offer any assistance it can.

Yours sincerely

Gary Steadman  
Chief Science Officer  
Proteus Applied Technologies (Int).

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**From:** Ron.Deavers@nrc.gov  
**To:** (b)(6) 6  
**Date:** Wed, 23 Mar 2011 17:16:17 -0400  
**Subject:** REPLY FW: japan doc from Proteus Applied Technologies

We appreciate the suggestions of folks with ideas to resolve the situation in Japan. Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

**From:** Gary Steadman (b)(6)  
**Sent:** Sunday, March 20, 2011 2:56 PM  
**To:** OPA Resource  
**Subject:** FW: japan doc from Proteus Applied Technologies

On behalf of **Proteus Applied Technologies**.

Dear Sir.

As requested I am resending the previous documents. They include the main document and our latest update, which is applicable as stated there in.

I am a (b)(6) and my contact number is (b)(6) (it will need an international prefix).

Yours faithfully

Gary T Steadman

6  
Date: Fri, 18 Mar 2011 22:11:49 +0000  
From: (b)(6)  
Subject: Japan doc  
To: (b)(6)

Gary  
copy of doc....

Chas Ingham

## Deavers, Ron

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**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 2:20 PM  
**To:** (b)(6)  
**Subject:** REPLY RE: possible way to get water to Jap reactor

6 We appreciate the suggestions of folks with ideas to resolve the situation in Japan. Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

**From:** Stuckey [mailto:Info@SouthernSportsmanOnline.com]  
**Sent:** Thursday, March 24, 2011 9:02 AM  
**To:** NRC Allegation  
**Subject:** possible way to get water to Jap reactor

Use a small track bulldozer with a water cannon and hose mounted on the frame. Assemble a basic robotic remote controlled steering unit on the steering clutches and a camera. Turn on the nozzle and control the water from the source.

(b)(6) 6

R/2/14

## Deavers, Ron

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**From:** Harrington, Holly  
**Sent:** Thursday, March 24, 2011 12:00 PM  
**To:** Bonaccorso, Amy  
**Cc:** Deavers, Ron  
**Subject:** RE: Here is my contact info

I do not know why this went back to Ron.

I went back to the individual with the request and asked for specifics of what he wanted.

I then sent it to you, Amy, as a person in RES, to help us get a response from RES.

Ron should be not involved.

If you have an answer from someone in research, please send it to me as a reply from the original e-mail I sent you asking for research to assess the inquiry. If research cannot help him, I need to know some specifics to provide the person.

Does that help?

**From:** Bonaccorso, Amy  
**Sent:** Thursday, March 24, 2011 9:16 AM  
**To:** Harrington, Holly  
**Cc:** Deavers, Ron  
**Subject:** FW: Here is my contact info

Holly:

This is a follow up on that inquiry you sent me yesterday – towards the end of the day...from Thomas Albert. This email is a record of what has happened so far. The request came to RES, Nathan Siu had a look at it, and it ended up back with Ron.

I'm with Ron in that I'm not sure how this kind of thing is handled. Should I call Nathan for more details on why he could not handle it? I can do that. From Nathan's email, it sounds like someone in OPA encouraged him to send it back to us.

Thanks,

Amy

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 1:32 PM  
**To:** Harrington, Holly  
**Cc:** Bonaccorso, Amy  
**Subject:** FW: Here is my contact info

Holly,

This one is not public and if the study is really classified, we would not be able to find it any way.

Ron

**From:** Siu, Nathan  
**Sent:** Wednesday, March 23, 2011 10:29 AM  
**To:** Deavers, Ron

R/2/15

**Cc:** [Thomas.Albert@dhs.gov](mailto:Thomas.Albert@dhs.gov); Coe, Doug  
**Subject:** FW: Here is my contact info

Ron –

I've received a telephone call from a DHS staffer – contact information below – requesting information regarding Fukushima (specifically, the existence of a PRA for the plant and the availability of an RES-sponsored classified study by the National Academy of Sciences on the safety and security of spent fuel pools). Per my management and OPA, I've been asked to forward this request to you. Please feel free to contact me if you have any questions.

Nathan Siu  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
21 Church Street, Room 4B05  
Rockville, MD 20852  
301-251-7583 (phone)  
301-251-7424 (fax)  
[Nathan.Siu@nrc.gov](mailto:Nathan.Siu@nrc.gov)

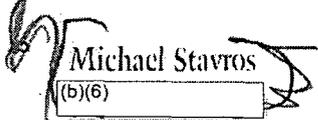
**From:** Albert, Thomas [<mailto:Thomas.Albert@dhs.gov>]  
**Sent:** Wednesday, March 23, 2011 10:12 AM  
**To:** Siu, Nathan  
**Subject:** Here is my contact info

-----  
Thomas E. Albert, Ph.D.  
Senior Scientist  
Domestic Nuclear Detection Office (DNDO)  
Department of Homeland Security  
Office: 202.254.7102  
Fax: 202.254.7747  
Mobile: (b)(6)  
E-mail: [Thomas.Albert@dhs.gov](mailto:Thomas.Albert@dhs.gov)  
[Thomas.Albert@dhs.sgov.gov](mailto:Thomas.Albert@dhs.sgov.gov)

**Deavers, Ron**

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**From:** Akstulewicz, Brenda  
**Sent:** Thursday, March 24, 2011 4:05 PM  
**To:** Deavers, Ron  
**Subject:** Citizen  
**Attachments:** image001.jpg

  
Michael Stavros  
(b)(6)

Does the US government build nuclear power plants and then turn them over to private corporations.

**Brenda Akstulewicz**  
Administrative Assistant  
Office of Public Affairs  
301-415-8209  
[brenda.akstulewicz@nrc.gov](mailto:brenda.akstulewicz@nrc.gov)



R/2/16

**Deavers, Ron**

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**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 5:11 PM  
**To:** Bonaccorso, Amy; Akstulewicz, Brenda; Deavers, Ron  
**Subject:** RE: Abusive member of the public will probably be calling back....

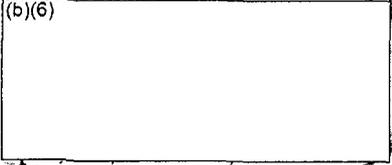
Called, no answer, nor voice mail

**From:** Akstulewicz, Brenda  
**Sent:** Thursday, March 24, 2011 4:24 PM  
**To:** Deavers, Ron  
**Subject:** FW: Abusive member of the public will probably be calling back....

Hi Ron,

Please see email below from Amy. If and only IF you are so inclined here is the caller's information.

Lisa Rains  
(b)(6)

A rectangular redacted area with a white background and a black border. The text "(b)(6)" is written in the top left corner of the redaction. There are some handwritten scribbles around the redaction box.

She's very concerned about what exactly she needs to do if there is a nuclear meltdown. She's quite rude, insistent and scared not to mention OCD! If there's any information we can send her, she'd like that.

Brenda

**From:** Bonaccorso, Amy  
**Sent:** Thursday, March 24, 2011 9:53 AM  
**To:** Akstulewicz, Brenda  
**Subject:** Abusive member of the public will probably be calling back....

I talked to her for 30 minutes and she was still highly upset....said she was going to keep calling back and reporting me to supervisor because I would not transfer to technical expert...aaagggghh!!!

I probably should not have allowed her to berate me for that long, but I was trying to let her get it all out.

R/2/17

**Deavers, Ron**

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**From:** Michael Mulligan (b)(6) 6  
**Sent:** Thursday, March 24, 2011 3:13 PM  
**To:** Deavers, Ron  
**Subject:** Re: REPLY RE: Fukushima safety task force

b Ron,

You are lost in space and you are not at all responsive to the members of the public. You can bet this correspondence will be handled in the presidential commission investigation on the activities of the NRC.

mike

---

**From:** "Deavers, Ron" <Ron.Deavers@nrc.gov>  
**To:** (b)(6) 6  
**Sent:** Thu, March 24, 2011 3:05:24 PM  
**Subject:** REPLY RE: Fukushima safety task force

In regard to the Part 21 issues listed in the recent Inspector General Report, the NRC staff will address each recommendation in the report.

The NRC provides instructions for reporting safety or security concerns at our web page located here:  
<http://www.nrc.gov/about-nrc/regulatory/allegations/safety-concern.html>

You are welcome to submit posting to our blog.

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**From:** Michael Mulligan (b)(6) 6  
**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** NRC Allegation  
**Subject:** Re: Fukushima safety task force

By Tennille Tracy  
Of DOW JONES NEWSWIRES

WASHINGTON (Dow Jones)--Nearly 30% of U.S. nuclear power plants fail to report equipment defects that present "substantial" safety risks because of contradictions in the federal law, according to the Nuclear Regulatory Commission's inspector general.

If the issue isn't resolved, "the margin of safety for operating reactors could be reduced," the inspector general says.

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"Licensees representing at least 28 percent of the operating reactor fleet do not, as standard practice, notify NRC of defects under Part 21 unless they are reportable under event reporting regulations," the report says.

R/2/18

**Deavers, Ron**

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**From:** Michael Mulligan (b)(6) 6  
**Sent:** Thursday, March 24, 2011 3:42 PM  
**To:** Deavers, Ron  
**Subject:** Re: REPLY RE: Fukushima safety task force

Ron,

Could I get you to show this correspondence set to your boss and give me some assurance that he seen it?

Could he send me a e-mail?

mike

---

**From:** "Deavers, Ron" <Ron.Deavers@nrc.gov>  
**To:** (b)(6) 6  
**Sent:** Thu, March 24, 2011 3:05:24 PM  
**Subject:** REPLY RE: Fukushima safety task force

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**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** NRC Allegation  
**Subject:** Re: Fukushima safety task force

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Of DOW JONES NEWSWIRES

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-By Tennille Tracy, Dow Jones Newswires; 202-862-6619; [tennille.tracy@dowjones.com](mailto:tennille.tracy@dowjones.com)

From: Michael Mulligan <(b)(6)>  
To: [allegation@nrc.gov](mailto:allegation@nrc.gov)  
Sent: Thu, March 24, 2011 9:52:21 AM  
Subject: Fukushima safety task force

Dear sir,

Based on the investigation of safety nationwide on the nuclear fleet...could I talk to somebody about LERs and part 21 reporting requirements?

The theme is LERs reporting and part 21 requirements have been eviscerated and are generally not enforced in the last decade...

How do you report issues you wish the new safety task force would look into?

I would suggest the NRC blog...but they have lost any credibility with me in the recent past. Instead a blog for all of the people of the USA...you turned it into a extreme pro nuclear blog of exclusive people.

I would have some suggestions and criticisms concerning the task force if NRC officials would like to talk to me.

Mike

AUDIT OF NRC'S IMPLEMENTATION OF 10 CFR PART 21, REPORTING OF DEFECTS AND NONCOMPLIANCE (OIG-11-A-08)

**Deavers, Ron**

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**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 2:36 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** RE: public call

Discussed the comprehensive review, press release, web page

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**From:** Bonaccorso, Amy  
**Sent:** Thursday, March 24, 2011 1:00 PM  
**To:** Deavers, Ron  
**Subject:** FW: public call

I told Dave that I was going to refer it to you. I need to finish the newsletter.

---

**From:** McIntyre, David  
**Sent:** Thursday, March 24, 2011 12:27 PM  
**To:** Bonaccorso, Amy  
**Subject:** public call

Amy – Could you please call “Mike” at (b)(6) He left a msg on voicemail and seems to be a member of the public, not media. Said he has questions regarding the safety of “our plants”.

Thanks.

---

David McIntyre  
Public Affairs Officer  
U.S. Nuclear Regulatory Commission  
(301) 415-8206 (direct)  
(202) 657-7096 (mobile)  
*Protecting People & the Environment*

3/24/11

**Deavers, Ron**

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**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 2:53 PM  
**To:** (b)(6)  
**Subject:** REPLY RE: Radiation Question

The ability of "radiation" to pass through materials is specific to the nature of the radioactive particles that comprise the radiation. This is discussed on our Radiation Basics web page at:  
<http://www.nrc.gov/about-nrc/radiation/health-effects/radiation-basics.html>

You may find more information by sending a message to: [radiation.questions@epa.gov](mailto:radiation.questions@epa.gov)

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

**From:** (b)(6)  
**Sent:** Thursday, March 24, 2011 2:15 PM  
**To:** OPA Resource  
**Subject:** Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) on Thursday, March 24, 2011 at 14:15:12

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comments: I am curious as how the hazmat suits protect people from radiation. How does wearing a mask or staying indoors help? My impression is that radiation will pass through walls let alone a hazmat suit or clothes.

contactName: Steve Downing  
phone: (b)(6)

---

R/2020

## Deavers, Ron

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**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 3:37 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** RE: Mr. Steven Mauld

Called Mr. Mauld back and engaged in a long conversation about how to cool the reactors with dry ice as well as his accomplishments as an inventor.

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Thursday, March 24, 2011 1:47 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Cc:** Ghneim, Munira  
**Subject:** FW: Mr. Steven Mauld

**From:** ROO hoc  
**Sent:** Thursday, March 24, 2011 1:22 PM  
**To:** OPA Resource  
**Cc:** Simpson, Eric; Ghneim, Munira  
**Subject:** RE: Mr. Steven Mauld

To Whom it May Concern in OPA:

Early in the NRC's response to the Japanese events last week, the Regional Operations Officers here in Region IV were helping out the HQ Operations Officers as a 'safety valve' for excess public inquiry calls prior to the OPA "Public Inquiry" line getting setup with continuous coverage. Eric Simpson is one of the Regional Operations Officers here and apparently took the call from Mr. Mauld.

When we were helping out in that matter, we generally were an open ear for the callers and then heavily suggested that the callers send an e-mail to the [OPA.resource@nrc.gov](mailto:OPA.resource@nrc.gov) inbox and/or call the 301-415-8200 line for follow-up on their suggestions.

Since the public inquiry line is more regularly staffed now, we would suggest that the OPA staff follow back up with Mr. Mauld that the Operations Officers would really not be able to do much more for him than direct him to the OPA e-mail/phone number.

Thank you,  
Region IV Operations Officers  
817-860-277

**From:** Simpson, Eric  
**Sent:** Thursday, March 24, 2011 11:34 AM  
**To:** ROO hoc  
**Subject:** FW: Mr. Steven Mauld

I'll call the guy (when I get back), unless one of y'all would like to.

**From:** Ghneim, Munira  
**Sent:** Wednesday, March 23, 2011 1:01 PM  
**To:** Simpson, Eric  
**Subject:** Mr. Steven Mauld

Good Afternoon Eric,

Mr. Steven Maud called for you. He said that he had spoken to you last week regarding a new method for cooling reactors. Please give him a call back at (b)(6)

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Public Affairs  
415-1170

**From:** Floyd Rudmin  
**To:** Janbergs, Holly  
**Subject:** Re: Concerns About Nuclear Safety  
**Date:** Thursday, March 24, 2011 2:28:47 PM

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Good evening,

Thank you very much for the fast and detailed response. You are probably being flooded by these now. But you really did not answer my concerns:

**A) NEED FOR REDUNDANT POWER TRANSMISSION CABLES TO THE GRID**

In Japan, they have just spent a week laying a new electric power line from the grid to the reactors because the earthquake and tidal wave

- 1) caused the reactors to shut down so that they do not produce electricity,
- 2) caused the back up generators to fail, and
- 3) destroyed transmission lines between the reactors and the grid.

They thus ended up with no electricity at the reactors, which caused the cooling pumps to stop, which caused over-heating, hydrogen explosions, and now release of radiation into the environment.

I think a large commercial airplane hitting a reactor could or would likely cause the same three failures at a US or Canadian reactor complex. How can anyone say with assurance that such an event would not cause the same three events that happened last week in Japan?

It would be best to have redundant power lines to the reactors, the back-up ones would probably be best in under-ground conduits. Is it bad to have more redundancy in the electricity to run cooling pumps? Considering the cost to the nation when a reactor fails, then it is a cheap bargain to have an extra power cable to the pumps.

**B) NEED TO ANTICIPATE AND PRECLUDE DANGERS TO REACTORS FROM ACTIVITIES OUTSIDE THE SECURITY PERIMETER**

Almost all reactors have some kind of linkage to local water sources (lakes, rivers, ocean). The openings of underwater pipes are out-of-sight and are outside the security perimeter. If a bomb were exploded at the openings of these pipes, there would be an enormous back-pressure into the plumbing of the reactor. Hydraulic pressure has enormous power, and many materials will fail, including valves, joints, welds, etc. I do not know the details of the plumbing of reactors, but that seems a plausible threat. I only ask that the NRC consider this, perhaps model what would happen if an explosion went off in a reactor's underwater pipes into the nearby water.

I have not been a fan of "the war on terror", but I do realize that there are angry people in the world, who would like to damage the USA or the

R/adaa

Western World's economy and power, who may have little regard for consequences to themselves or others. And these do not have to be angry foreigners. There are a lot of angry people in the USA who would also like to do damage for reasons of revenge, or ideology, or religion, or simply insanity. Nuclear reactors seem a natural target for such people since relatively minor failure (like losing electricity for 3 days) can have catastrophic effects.

Please, please pass these concerns up into the NRC to the level where engineers or responsible persons could consider them. Please do not think that PR responses that everything is fine and safe are adequate here. Your Japanese counter-parts have been making such assurances for years.

The events in Japan should make all of you realize that NRC confidence is itself one of the dangers to be wary of.

Sincerely,  
Floyd Rudmin

---

**From:** "Janbergs, Holly" <Holly.Janbergs@nrc.gov>  
**To:** (b)(6) Ex 6  
**Sent:** Thu, March 24, 2011 1:45:17 PM  
**Subject:** Re: Concerns About Nuclear Safety

Mr. Rudman,

I appreciate you taking the time to pass along your concerns. The NRC tries to integrate public action opportunities throughout its licensing and rulemaking processes. You can always find listings of public meetings here:

<http://www.nrc.gov/public-involve/public-meetings/index.cfm>

Regarding your specific questions, please know that the NRC has comprehensively studied the effect of an airborne attack on nuclear power plants. Shortly after 9/11, the NRC began a security and engineering review of operating nuclear power plants. Assisting the NRC were national experts from Department of Energy laboratories, who used state-of-the-art experiments, and structural and fire analyses.

These classified studies confirm that there is a low likelihood that an airplane attack on a nuclear power plant would affect public health and safety, thanks in part to the inherent robustness of the structures. A second study identified new methods plants could use to minimize damage and risk to the public in the event of any kind of large fire or explosion. Nuclear power plants subsequently implemented many of these methods.

In addition, all U.S. plants except for Oconee have both diesel and battery backup systems. Most of the U.S. plants with diesels have two diesels per unit, and those that only have one dedicated diesel have a swing diesel available as well. Most sites plan to run the diesels for multiple days and have battery backup capability for eight hours. The recovery strategy for each site is based on providing sufficient capacity to assure that the core is cooled and containment integrity and other vital functions are maintained in the event of postulated accidents.

The NRC also utilizes what is known as the Design Basis Threat – essentially a compilation of possible factors or concerns that the agency expects its licensees to address when creating their safety plans. In the Energy Policy Act of 2005, Congress outlined twelve factors that the NRC considered in its revision of the DBT rule. These factors included many potential terrorist threats, such as physical, cyber, and biochemical attacks; water- and air-based threats; long-lived fires; and suicide attacks. It also included the use of explosive devices of considerable size, and the use of other modern types of weaponry.

I understand that the situation in Japan has raised a lot of concerns, and I can assure you that the agency is taking it very seriously. We have said from the beginning that the NRC would analyze the situation for any lessons that can be derived to improve our oversight of U.S. power plants. Emergency planning and safety structures will be part of that analysis. President Obama has also asked the agency to conduct a comprehensive review of the safety of U.S. nuclear plants, and the NRC agreed to do so. One of our latest press releases details the beginning steps of that process: <http://www.nrc.gov/reading-rm/doc-collections/news/2011/11-055.pdf>

Thank you again for passing along your concerns. I hope you take the opportunity to participate in our public comment process in the future.

Best,  
Bethany

Beth Janbergs  
Public Affairs Assistant  
301-415-8211

**From:** Tobin, Jennifer  
**To:** (b)(6) *ex 6*  
**Bcc:** Deavers, Ron; Bonaccorso, Amy  
**Subject:** RE: REPLY: Japan meltdown  
**Date:** Thursday, March 24, 2011 2:11:00 PM

---

Dear Mr. Tracey,

Thank you for your follow-up questions. The United States is one of a number of countries that have offered mobile generators to the Japanese government for use at the Fukushima nuclear power plant. It is up to the Japanese government to decide which nation they would like to work with to install these mobile generators on a temporary basis. I hope that addresses your concern.

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

---

**From:** Mike (b)(6) *ex 6*  
**Sent:** Wednesday, March 23, 2011 10:34 PM  
**To:** Bonaccorso, Amy  
**Subject:** Re: REPLY: Japan meltdown

Amy

Thank you for the quick reply and link to more info. In watching your chief (sorry I dont remember his name) deflect questions regarding how US reactors safety measures are in one way better than Japans I was interested in one specific statement he made regarding a fourth backup to the water cooling failures Japan experienced. Excuse me if I misunderstood but I thought he said we have some portable systems that are available to react to the loss of cooling. Can you explain what that system is? I assume a trailer with generator, pumps and heat exchangers? If we have such systems why have they not been offered to assist Japan?

Sounded like a good backup?

Best Regards

Mike

---

**From:** "Bonaccorso, Amy" <amy.Bonaccorso@nrc.gov>  
**To:** (b)(6) *ex 6*  
**Cc:** "Deavers, Ron" <Ron.Deavers@nrc.gov>  
**Sent:** Wed, March 16, 2011 12:53:19 PM  
**Subject:** REPLY: Japan meltdown

Dear Mr. Tracey:

At this time, the NRC does not believe protective measures are necessary in the United States. If the event 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

R/222

Japan are encouraged to follow the protective measures recommended by the Japanese government.

The NRC continues to monitor information regarding wind patterns near the Japanese nuclear power plants. Nevertheless, given the distance between the Japan and Hawaii, Alaska, the U.S. Territories and the U.S. West Coast we are not expected to experience any harmful levels of radioactivity. The 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.

I am sorry that we can't spend more time answering your questions about spent fuel storage and cooling systems, but information on this page (link below) may help you.

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/>

Thank you,

Amy

---

**From:** Mike [redacted] *Text*  
**Sent:** Tuesday, March 15, 2011 10:53 PM  
**To:** OPA1 RESOURCE; OPA1 RESOURCE  
**Subject:** Japan meltdown

Hi

I am hoping the NRC will take lessons learned from what is occurring in Japan. I would like to know why spent fuel is stored at the reactors? I imagine it is a cost reason and nobody else wants it. You need to get a solution that cannot be compromised as may be the case in Japan i.e. offsite storage.

I realize the odds of such a situation in Japan are slim but the severity is high. Why cant the cooling system rely on a gravity system backup? Where are they dumping that seawater?

Im sure scientists have thought of it all but it sure doesnt seem that way over the past week.

Also people are left to find there own ways to obtain potassium iodide. And guess what you cant buy it anywhere. You need to take it before exposure. By the time the meltdown release reaches the US - the levels will be safe right. Think about it - they have three to five reactors on the edge of out of control and a spent fuel pool compromised.

Is this the responsibility of the NRC or will be Obamas fault? Your expertise is key - show leadership.

Sorry but thats my perspective. I am very concerned.

Mike Tracey

[redacted]  
(b)(6)

## Deavers, Ron

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**From:** Bonaccorso, Amy  
**Sent:** Thursday, March 24, 2011 10:20 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** FW: REPLY: Japan meltdown

Jenny:

I don't know if you can address him with some technical knowledge or not.

**From:** Mike (b)(6)  
**Sent:** Wednesday, March 23, 2011 10:34 PM  
**To:** Bonaccorso, Amy  
**Subject:** Re: REPLY: Japan meltdown

Amy

Thank you for the quick reply and link to more info. In watching your chief (sorry I dont remember his name) deflect questions regarding how US reactors safety measures are in one way better than Japans I was interested in one specific statement he made regarding a fourth backup to the water cooling failures Japan experienced. Excuse me if I misunderstood but I thought he said we have some portable systems that are available to react to the loss of cooling. Can you explain what that system is? I assume a trailer with generator, pumps and heat exchangers? If we have such systems why have they not been offered to assist Japan?

Sounded like a good backup?

Best Regards

Mike

---

**From:** "Bonaccorso, Amy" <amy.Bonaccorso@nrc.gov>  
**To:** (b)(6)  
**Cc:** Deavers, Ron <Ron.Deavers@nrc.gov>  
**Sent:** Wed, March 16, 2011 12:53:19 PM  
**Subject:** REPLY: Japan meltdown

Dear Mr. Tracey

At this time, the NRC does not believe protective measures are necessary in the United States. If the event 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. Unites States citizens in Japan are encouraged to follow the protective measures recommended by the Japanese government.

The NRC continues to monitor information regarding wind patterns near the Japanese nuclear power plants. Nevertheless, given the distance between the Japan and Hawaii, Alaska, the U.S. Territories and the U.S. West Coast we are not expected to experience any harmful levels of radioactivity. The 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.

I am sorry that we can't spend more time answering your questions about spent fuel storage and cooling systems, but information on this page (link below) may help you.

<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/>

6 Thank you,

Amy

From: Mike (b)(6)  
Sent: Tuesday, March 15, 2011 10:53 PM  
To: OPA1 RESOURCE; OPA1 RESOURCE  
Subject: Japan meltdown

Hi

I am hoping the NRC will take lessons learned from what is occurring in Japan. I would like to know why spent fuel is stored at the reactors? I imagine it is a cost reason and nobody else wants it. You need to get a solution that cannot be compromised as may be the case in Japan i.e. offsite storage.

I realize the odds of such a situation in Japan are slim but the severity is high. Why cant the cooling system rely on a gravity system backup? Where are they dumping that seawater?

Im sure scientists have thought of it all but it sure doesnt seem that way over the past week.

Also people are left to find there own ways to obtain potassium iodide. And guess what you cant buy it anywhere. You need to take it before exposure. By the time the meltdown release reaches the US - the levels will be safe right. Think about it - they have three to five reactors on the edge of out of control and a spent fuel pool compromised.

Is this the responsibility of the NRC or will be Obamas fault? Your expertise is key - show leadership.

Sorry but thats my perspective. I am very concerned.

Mike Tracey  
(b)(6)

**From:** Mike  
**To:** Tobin, Jennifer  
**Subject:** Re: REPLY: Japan meltdown  
**Date:** Thursday, March 24, 2011 10:43:32 PM

---

Hi Jennifer

I do respect your departments ability to respond to my ignorant questions. Today I heard the NRC renewed a liscense to I think a Vermont nuclear powerplant. Apparently this particular powerplant has the same design as Fukushima and a large amount of spent fuel in its storage pool. Does the NRC have any plan to deal with spent fuel storage options. You know shoot it into Space or something. Just kidding but I do think you have an industry problem. As we have learned at Fukishima storage within the reactor building is not desirable. At least impose building a seperate building within the properties. How are the French handling the spent fuel?

Thank you

Mike

---

**From:** "Tobin, Jennifer" <Jennifer.Tobin@nrc.gov>  
**To:** (b)(6) *ex6*  
**Sent:** Thu, March 24, 2011 1:11:11 PM  
**Subject:** RE: REPLY: Japan meltdown

Dear Mr. Tracey,

Thank you for your follow-up questions. The United States is one of a number of countries that have offered mobile generators to the Japanese government for use at the Fukushima nuclear power plant. It is up to the Japanese government to decide which nation they would like to work with to install these mobile generators on a temporary basis. I hope that addresses your concern.

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

---

**From:** Mike (b)(6) *ex6*  
**Sent:** Wednesday, March 23, 2011 10:34 PM  
**To:** Bonaccorso, Amy  
**Subject:** Re: REPLY: Japan meltdown

Amy

Thank you for the quick reply and link to more info. In watching your chief (sorry I dont remember his name) deflect questions regarding how US reactors safety measures are in one way better than Japans I was interested in one specific statement he made regarding a fourth backup to the water cooling failures Japan experienced. Excuse me if I misunderstood but I thought he said we have some portable systems that are available to react to the loss of cooling. Can you explain what that system is? I assume a trailor with generator, pumps and heat exchangers? If we have such systems why have they not been offered to assist Japan?

Sounded like a good backup?

Best Regards

Mike

*R/225*

**From:** Tobin, Jennifer  
**To:** Bonaccorso, Amy  
**Cc:** Deavers, Ron  
**Subject:** RE: Radiation Question  
**Date:** Thursday, March 24, 2011 11:54:27 AM

---

Amy,  
He's researching for a novel. I would steer him to the website.

Thanks!  
-Jenny

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From: Bonaccorso, Amy  
Sent: Thursday, March 24, 2011 10:51 AM  
To: Tobin, Jennifer  
Cc: Deavers, Ron  
Subject: FW: Radiation Question

Jenny:

Should I just refer him to the NRC website or do you want to give him more info?

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

From: Janbergs, Holly On Behalf Of OPA Resource  
Sent: Thursday, March 24, 2011 7:27 AM  
To: Bonaccorso, Amy; Deavers, Ron  
Subject: FW: Radiation Question

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

From: (b)(6) ] ex6  
Sent: Wednesday, March 23, 2011 10:13 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) ] ex6 on Wednesday, March 23, 2011 at 22:12:33

comments: I have a few specific questions regarding radiation for a fictional story I am writing. The premise of my story takes place in a world in which the human race has been significantly reduced to about 12 million. Without the staff to run nuclear reactors, I would imagine there would be a number of consequences. How long would it take a reactor to be affected from lack of maintenance? Is it possible for the staff of a reactor to safely shut it down, or prevent any possible harm from a reactor with no staff? What exactly would happen, ie: a meltdown, explosion, both or more if a reactor is left alone? At what distances would the effected area be for its respective destruction, and what would the consequences be for exposure to such radiation? I read about genetic mishaps due to such radiation, is it plausible, for example, for physical mutations, such as an elongated body part like a leg or arm, or an overgrown eyeball, or bicep? What about the consequences for!

nature, trees/plants/animals of the surrounding areas, would they show/have physical/genetic differences? Also, how long would these effected areas be dangerous? Is it plausible to think the farther out from ground zero the quicker it will return to "normal"? What sort of materials could one use to protect one's self from such radiation? Thank you so much for your time. No rush on getting back to me as I'm in the outline stages of my story; these are questions I need answered for the most

R/226

realistic outlook I can have regarding my characters' traveling routes, and potential obstacles, ie mutated scavenger/hunters etc. If you wish to leave your full name for credit or thanks I would be happy to include you, or at the very least the USNRC. Thanks again.

contactName: Daryl LaMontagne

phone: (b)(6)

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**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Janbergs, Holly  
**Subject:** FW: concern about nuclear safety regulatory failures  
**Date:** Thursday, March 24, 2011 8:15:00 AM

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**From:** Floyd Rudmin (b)(6) ] Ex 6  
**Sent:** Thursday, March 24, 2011 8:05 AM  
**To:** OPA Resource  
**Subject:** concern about nuclear safety regulatory failures

Good afternoon,

Please consider the following nuclear safety concerns:

1) Japan did NOT have redundant power transmission lines to their reactors and thus lost cooling. If an event, like a plane crash, were to knock out a reactor's transmission lines AND your back-up power supply, do regulations require that there be redundant transmission lines to provide power from the grid? If not, please consider requiring such safety redundancy, for example, in underground conduits.

2) Do you require that there be security protection from a bomb inside a reactor's underwater piping that extends into a lake, river, or ocean? If not, please consider requiring such safety, for example, by a blow-out weak point in the piping, between the pipe opening and the reactor. That way, hydraulic back-pressure from an explosion at the pipe opening would not reach the reactor.

I know your PR job is to assure me that everything is fine and safe. But Tokyo Electric also had been assuring everybody that everything is fine and safe. In this instance, in addition to your assurance reply, please also pass my email up within your offices to some level where an engineer or responsible party will consider and act upon my concerns.

Sincerely,  
Floyd Rudmin

R/227

**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Cc:** Ghneim, Munira  
**Subject:** FW: Mr. Steven Mauld  
**Date:** Thursday, March 24, 2011 1:47:00 PM

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**From:** ROO hoc  
**Sent:** Thursday, March 24, 2011 1:22 PM  
**To:** OPA Resource  
**Cc:** Simpson, Eric; Ghneim, Munira  
**Subject:** RE: Mr. Steven Mauld

To Whom it May Concern in OPA:

Early in the NRC's response to the Japanese events last week, the Regional Operations Officers here in Region IV were helping out the HQ Operations Officers as a 'safety valve' for excess public inquiry calls prior to the OPA "Public Inquiry" line getting setup with continuous coverage. Eric Simpson is one of the Regional Operations Officers here and apparently took the call from Mr. Mauld.

When we were helping out in that matter, we generally were an open ear for the callers and then heavily suggested that the callers send an e-mail to the [OPA.resource@nrc.gov](mailto:OPA.resource@nrc.gov) inbox and/or call the 301-415-8200 line for follow-up on their suggestions.

Since the public inquiry line is more regularly staffed now, we would suggest that the OPA staff follow back up with Mr. Mauld in that the Operations Officers would really not be able to do much more for him than direct him to the OPA e-mail/phone number.

Thank you,  
Region IV Operations Officers  
817-860-277

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**From:** Simpson, Eric  
**Sent:** Thursday, March 24, 2011 11:34 AM  
**To:** ROO hoc  
**Subject:** FW: Mr. Steven Mauld

I'll call the guy (when I get back), unless one of y'all would like to.

---

**From:** Ghneim, Munira  
**Sent:** Wednesday, March 23, 2011 1:01 PM  
**To:** Simpson, Eric  
**Subject:** Mr. Steven Mauld

Good Afternoon Eric,

Mr. Steven Mauld called for you. He said that he had spoken to you last week regarding a new method for cooling reactors. Please give him a call back at (b)(6)

(b)(6)

R/228

Thank You  
Munira Ghneim  
Contract Secretary  
Office of Public Affairs  
415-1170

**From:** McIntyre, David  
**To:** OPA Resource  
**Cc:** Janbergs, Holly; Couret, Ivonne  
**Subject:** Re: Atlanta Journal-Constitution reader question for Ivonne  
**Date:** Thursday, March 24, 2011 10:32:15 PM

---

I send an answer Tuesday, the reporter responds LATE Thursday, and I have absolutely no recollection of the exchange. Scary.

David McIntyre  
NRC Office of Public Affairs  
(b)(6) (mobile) Ex 6  
301-415-8200 (office)

Sent from my BlackBerry, which is wholly responsible for all typos.

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**From:** Theresa Giarrusso (b)(6) Ex 6  
**To:** McIntyre, David; OPA Resource  
**Cc:** Janbergs, Holly; Couret, Ivonne  
**Sent:** Thu Mar 24 20:44:43 2011  
**Subject:** Re: Atlanta Journal-Constitution reader question for Ivonne

Hey -- thanks very much! that is great. Love being able to like the readers to reference material such as the Q&A. I really appreciate your help. Theresa Walsh Giarrusso

---

**From:** "McIntyre, David" <David.McIntyre@nrc.gov>  
**To:** OPA Resource <OPA.Resource@nrc.gov>; (b)(6) Ex 6  
**Cc:** "Janbergs, Holly" <Holly.Janbergs@nrc.gov>; "Couret, Ivonne" <Ivonne.Couret@nrc.gov>  
**Sent:** Tue, March 22, 2011 5:04:30 AM  
**Subject:** RE: Atlanta Journal-Constitution reader question for Ivonne

Hi Theresa -

There is plenty of information on seismic standards for US nuclear plants on our website. following the Japan information link under Key Topics. Look especially for the main Qs and As, the "Can it happen here?" and the fact sheet on seismic issues. The short answer is that US plants are not designed to a "one size fits all" standard but according to the geology of the area and the specific site. Also, the standards are not based on magnitude of an earthquake, but ground movement, which is a function of magnitude and distance from the epicenter. So we urge folks not to think in terms of "Can the plant withstand a 9.0 earthquake?" The question – and of course the answer – is not so simple.

Regards,

*David McIntyre*  
Office of Public Affairs  
U.S. Nuclear Regulatory Commission  
(301) 415-8200

3/22/11

**From:** Theresa Giarrusso (b)(6) Ex 6  
**Sent:** Monday, March 21, 2011 5:07 PM  
**To:** OPA Resource  
**Subject:** Atlanta Journal-Constitution reader question for Ivonne

Dear Ivonne -- My name is Theresa Walsh Giarrusso and I am researching reader questions for The Atlanta Journal-Constitution. We had a question from a reader about what magnitude of earthquake U.S. nuclear facilities are prepared to withstand. The reader specifically asks about Georgia nuclear facilities but I would like to add to that question: Is the standard the same for all U.S. nuclear plants or would it vary based on how likely an earthquake is.

I am happy to work with you via email or phone, although we find email works best to get concise answers. We would love to have an answer by Wednesday or Thursday but we are always happy to take an answer. Thanks so much for your help.

Theresa Walsh Giarrusso

(b)(6)  
(b)(6) (cell) Ex 6

here is the reader's question:

I understand that the experts say that the chances are low that  
>Georgia, near the Charleston fault, would ever get an earthquake over  
>a magnitude of 6. I wonder what level of earthquake magnitude  
>Georgia's nuclear plants were designed to withstand?  
Tim Conner, and my city of residence is (b)(6)

**From:** Tobin, Jennifer  
**To:** Bonaccorso, Amy; Deavers, Ron; Janbergs, Holly  
**Subject:** RE: Radiation Question  
**Date:** Thursday, March 24, 2011 2:28:51 PM

---

Amy,

You should probably refer him to the EPA since they set the standards for radiation levels for workers here in the U.S. By now, they should have fun into similar situations so that they know how to respond.

Thanks!

-Jenny

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

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

From: Bonaccorso, Amy  
Sent: Thursday, March 24, 2011 11:35 AM  
To: Deavers, Ron; Janbergs, Holly; Tobin, Jennifer  
Subject: RE: Radiation Question

That one is tough because this is a US company - but in Japan.

I don't know of anything I have in my script for equipment though.

Any ideas, Jenny?

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

From: Janbergs, Holly On Behalf Of OPA Resource  
Sent: Thursday, March 24, 2011 11:13 AM  
To: Bonaccorso, Amy; Deavers, Ron  
Subject: FW: Radiation Question

Probably the Japanese govt?

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

From: douglas.flemmens@grahampackaging.com [mailto:douglas.flemmens@grahampackaging.com]  
Sent: Thursday, March 24, 2011 10:27 AM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(douglas.flemmens@grahampackaging.com) on Thursday, March 24, 2011 at 10:26:45

---

comments: My (US) company is in process of setting up a facility in Japan. Work has temporarily stopped. Who can I work with to determine proper protection program / equipment for our workers in order to re-start operations.

contactName: Doug Flemmens

phone:

R/200

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**From:** Janbergs, Holly on behalf of OPA Resource  
**To:** Couret, Ivonne  
**Subject:** FW: journalist request  
**Date:** Thursday, March 24, 2011 11:13:00 AM

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**From:** Ludovic Dupin [mailto:ldupin@usinenouvelle.com]  
**Sent:** Thursday, March 24, 2011 11:11 AM  
**To:** OPA Resource  
**Subject:** journalist request

Hello,

This message is for the press office or equivalent.

I am a journalist for the French magazine l'Usine Nouvelle, about industry and economy. I am preparing an article on the dismantling of nuclear plants and the complexity of these operations.

I would like to know what is the policy of dismantling prescribed in the United States and if the country has managed a complete dismantling of a reactor.

Also, I was wondering if scenarios of the future of Fukushima has already been imagined by experts from the NRC.

To whom, could I address these questions ?

Thank you in advance for your help

Best Regards,

**Ludovic Dupin**  
**L'USINE NOUVELLE**

(b)(6)

(b)(6)

P.S. : veuillez noter le changement de mon adresse mail : [ldupin@usinenouvelle.com](mailto:ldupin@usinenouvelle.com)

[www.usinenouvelle.com](http://www.usinenouvelle.com)

R/231

**From:** [Bonaccorso, Amy](#)  
**To:** [Deavers, Ron](#); [Janbergs, Holly](#); [Tobin, Jennifer](#)  
**Subject:** RE: Radiation Question  
**Date:** Thursday, March 24, 2011 11:35:21 AM

---

That one is tough because this is a US company - but in Japan.

I don't know of anything I have in my script for equipment though.

Any ideas, Jenny?

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

**From:** Janbergs, Holly On Behalf Of OPA Resource  
**Sent:** Thursday, March 24, 2011 11:13 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Radiation Question

Probably the Japanese govt?

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

**From:** douglas.flemmens@grahampackaging.com [<mailto:douglas.flemmens@grahampackaging.com>]  
**Sent:** Thursday, March 24, 2011 10:27 AM  
**To:** OPA Resource  
**Subject:** Radiation Question

Below is the result of your feedback form. It was submitted by

([douglas.flemmens@grahampackaging.com](mailto:douglas.flemmens@grahampackaging.com)) on Thursday, March 24, 2011 at 10:26:45

---

comments: My (US) company is in process of setting up a facility in Japan. Work has temporarily stopped. Who can I work with to determine proper protection program / equipment for our workers in order to re-start operations.

contactName: Doug Flemmens

phone:

---

7/232

**Deavers, Ron**

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**From:** Harrington, Holly  
**Sent:** Thursday, March 24, 2011 2:53 PM  
**To:** Deavers, Ron  
**Subject:** RE: REPLY FW: japan doc from Proteus Applied Technologies

OK. I'll handle

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 5:29 PM  
**To:** Harrington, Holly  
**Cc:** Bonaccorso, Amy  
**Subject:** FW: REPLY FW: japan doc from Proteus Applied Technologies

Holly,

We provided the standard answer for suggestions below, however, after scanning the attachments for virus and looking them over, we have an unsolicited proposal for a technical concept that may merit a screening review by a technical expert. Your call.

Ron

**From:** Deavers, Ron  
**Sent:** Wednesday, March 23, 2011 5:16 PM  
**To:** (b)(6)  
**Subject:** REPLY FW: japan doc from Proteus Applied Technologies

We appreciate the suggestions of folks with ideas to resolve the situation in Japan. Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

**From:** Gary Steadman (b)(6)  
**Sent:** Sunday, March 20, 2011 2:56 PM  
**To:** OPA Resource  
**Subject:** FW: japan doc from Proteus Applied Technologies

On behalf of **Proteus Applied Technologies.**

Dear Sir,

As requested I am resending the previous documents. They include the main document and our latest update, which is applicable as stated there in.

I am a (b)(6) and my contact number is (b)(6) (it will need an international prefix).

Yours faithfully

Gary T Steadman

R/2332

Date: Fri, 18 Mar 2011 22:11:49 +0000

From: (b)(6)

Subject: japan doc

To: (b)(6)

6

Gary

copy of doc....

Chas Ingham

## Deavers, Ron

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**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 3:05 PM  
**To:** (b)(6)  
**Subject:** REPLY RE: Fukushima safety task force

In regard to the Part 21 issues listed in the recent Inspector General Report, the NRC staff will address each recommendation in the report.

The NRC provides instructions for reporting safety or security concerns at our web page located here:  
<http://www.nrc.gov/about-nrc/regulatory/allegations/safety-concern.html>

b You are welcome to submit posting to our blog.

---

**From:** Michael Mulligan (b)(6)  
**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** NRC Allegation  
**Subject:** Re: Fukushima safety task force

By Tennille Tracy  
OF DOW JONES NEWSWIRES

WASHINGTON (Dow Jones)--Nearly 30% of U.S. nuclear power plants fail to report equipment defects that present "substantial" safety risks because of contradictions in the federal law, according to the Nuclear Regulatory Commission's inspector general.

If the issue isn't resolved, "the margin of safety for operating reactors could be reduced," the inspector general says.

In a new report, the Office of Inspector General says U.S. nuclear plants are confused about what they are required to report to federal regulators. That's because one section of the law, known as Part 21, requires them to report defects that can cause a loss of safety functions while another section of the law requires them to report only actual losses of safety functions.

"Licensees representing at least 28 percent of the operating reactor fleet do not, as standard practice, notify NRC of defects under Part 21 unless they are reportable under event reporting regulations," the report says.

The safety of U.S. nuclear facilities has come under question in recent days as the nuclear crisis at Japan's Fukushima plant reveals weaknesses in nuclear-plant technology. The U.S. Nuclear Regulatory Commission voted Wednesday to conduct a major safety review of the 104 nuclear reactors operating in the US.

The Nuclear Regulatory Commission has been aware of the reporting lapses since at least 2009. In that time, the commission identified 24 instances, between December 2009 and September 2010, in which nuclear plants didn't report defects under Part 21.

These instances pose "a substantial safety hazard" and prevent federal regulators from spotting manufacturer defects that could surface at other plants around the country, the inspector general said.

Because U.S. plants are failing to report defects as a result of confusion over the law, the Nuclear Regulatory Commission hasn't imposed violations or civil penalties. It has not imposed any civil penalties or significant enforcement actions for the reporting failures in at least eight years, the inspector says.

-By Tennille Tracy Dow Jones Newswires, (202-862-6619), tennille.tracy@dowjones.com

---

**From:** Michael Mulligan <(b)(6)>  
**To:** [allegation@nrc.gov](mailto:allegation@nrc.gov)  
**Sent:** Thu, March 24, 2011 9:52:21 AM  
**Subject:** Fukushima safety task force

Dear sir,

Based on the investigation of safety nationwide on the nuclear fleet...could I talk to somebody about LERs and part 21 reporting requirements?

The theme is LERs reporting and part 21 requirements have been eviscerated and are generally not enforced in the last decade...

How do you report issues you wish the new safety task force would look into?

I would suggest the NRC blog...but they have lost any credibility with me in the recent past. Instead a blog for all of the people of the USA...you turned it into a extreme pro nuclear blog of exclusive people.

I would have some suggestions and criticisms concerning the task force if NRC officials would like to talk to me.

Mike

**Deavers, Ron**

---

**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 3:47 PM  
**To:** (b)(6) G  
**Subject:** REPLY RE: (no subject)

We appreciate the suggestions of folks with idea to resolve the situation in Japan. Please understand that the NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

**From:** Janbergs, Holly **On Behalf Of** OPA Resource  
**Sent:** Thursday, March 24, 2011 3:03 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: (no subject)

**From:** (b)(6)  
**Sent:** Thursday, March 24, 2011 2:51 PM  
**To:** OPA Resource  
**Subject:** (no subject)

My profile

(b)(6)  
(b)(6)  
(b)(6)  
reside in (b)(6)

my ideas on providing a gravity water supply to all nuclear power facilities ,to be built and existing, where topography will not allow a remote storage tank system or reservoir at the necessary elevation and safe [distance] location, water towers could be used as they do in the mid west or flat topography.

a gravity fed water source would be inexpensive to construct and quick to build  
this water source could provide cooling water while power is restored to pumps  
the water source could be located a safe distance from any facility and have great capacity  
this type system can be built now quickly.

please deliver this to the proper people where it would be considered

THANK YOU  
Robert Ferreira

(b)(6)

R/205

**Deavers, Ron**

---

**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 5:01 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: REPLY RE: Citizen

**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 5:00 PM  
**To:** (b)(6)  
**Subject:** REPLY RE: Citizen

6

Mr. ~~Stavros~~

The government involvement in the construction financing that we discussed is in the form of loan guarantees. More information is available in this article from the Department of Energy web site:  
<http://www.id.energy.gov/NEWS/PressReleases/PR100216.htm>

**From:** Akstulewicz, Brenda  
**Sent:** Thursday, March 24, 2011 4:05 PM  
**To:** Deavers, Ron  
**Subject:** Citizen

~~Michael Stavros~~  
(b)(6)

Does the US government build nuclear power plants and then turn them over to private corporations.

R/236

**Deavers, Ron**

---

**From:** Harrington, Holly  
**Sent:** Thursday, March 24, 2011 3:53 PM  
**To:** Deavers, Ron  
**Cc:** Bonaccorso, Amy  
**Subject:** RE: REPLY RE: Fukushima safety task force

Stop for a second and call me first

**From:** Deavers, Ron  
**Sent:** Thursday, March 24, 2011 3:51 PM  
**To:** Harrington, Holly  
**Cc:** Bonaccorso, Amy  
**Subject:** FW: REPLY RE: Fukushima safety task force

Holly,

I am forwarding this email at the senders request. I will inform him in a separate reply that I forwarded this email.

Thanks,

Ron

**From:** Michael Mulligan (b)(6) 6  
**Sent:** Thursday, March 24, 2011 3:42 PM  
**To:** Deavers, Ron  
**Subject:** Re: REPLY RE: Fukushima safety task force

Ron,

Could I get you to show this correspondence set to your boss and give me some assurance that he seen it?

Could he send me a e-mail?

mike

---

**From:** "Deavers, Ron" <Ron.Deavers@nrc.gov>  
**To:** (b)(6) 6  
**Sent:** Thu, March 24, 2011 3:05:24 PM  
**Subject:** REPLY RE: Fukushima safety task force

In regard to the Part 21 issues listed in the recent Inspector General Report, the NRC staff will address each recommendation in the report.

The NRC provides instructions for reporting safety or security concerns at our web page located here:  
<http://www.nrc.gov/about-nrc/regulatory/allegations/safety-concern.html>

You are welcome to submit posting to our blog.

R/237

**From:** Harrington, Holly  
**To:** (b)(6) 6  
**Cc:** Bonaccorso, Amy  
**Subject:** NRC Response  
**Date:** Friday, March 25, 2011 10:11:52 AM

---

Ms. Garland:

You posed a question to the NRC, which is copied below. You are asking a legal question and the U.S. NRC cannot provide you with legal advice or guidance. However, you might want to post this question to your realtor, insurance company or perhaps your county/city/state environmental protection department or branch. If you want more information on the NRC reporting relating to this property, our Public Document Room may be able to help you locate the relevant documents. Here is information on how to reach them: <http://www.nrc.gov/reading-rm/pdr.html> .

Sincerely yours,

Holly Harrington  
Office of Public Affairs  
NRC

Amy,

(b)(6) in which there is documented disposal of radioactive material. This is a site where the NRC did some reporting in the past. In any event, our biggest concern is liability if the containment is disturbed and subsequent contamination of water sources down gradient. The question: who is responsible in the long term regardless of land ownership?

R/238

**From:** [Bonaccorso, Amy](#)  
**To:** [Harrington, Holly](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: REPLY: Mary Garland  
**Date:** Friday, March 25, 2011 10:05:00 AM

---

Holly:

Not sure who to forward this one to.

Thanks,

Amy

---

**From:** Mary Garland (b)(6)  
**Sent:** Thursday, March 24, 2011 12:35 PM  
**To:** Bonaccorso, Amy  
**Subject:** Re: REPLY: Mary Garland

Amy,

(b)(6) in which there is documented disposal of radioactive material. This is a site where the NRC did some reporting in the past. In any event, our biggest concern is liability if the containment is disturbed and subsequent contamination of water sources down gradient. The question: who is responsible in the long term regardless of land ownership?

Thanks for taking time to address this question.

Mary Garland

(b)(6)

PS I can provide more details if necessary.

--- On Thu, 3/24/11, Bonaccorso, Amy <[amy.Bonaccorso@nrc.gov](mailto:amy.Bonaccorso@nrc.gov)> wrote:

From: Bonaccorso, Amy <[amy.Bonaccorso@nrc.gov](mailto:amy.Bonaccorso@nrc.gov)>  
Subject: REPLY: Mary Garland  
To: (b)(6)  
Date: Thursday, March 24, 2011, 9:52 AM

Hi Ms. Garland:

I just got your inquiry about radiation. What are your specific questions? Low level radiation is all around us. The U.S. Nuclear Regulatory Commission is primarily focused on regulating nuclear power plants. We have this fact sheet available that talks about the decommissioning process for nuclear power

plants. Decommissioning is the safe removal of a facility from service and reduction of residual radioactivity to a level that permits termination of the NRC license. I hope this information is helpful, but please let me know if you have more specific questions.

<http://www.nrc.gov/about-nrc/regulatory/decommissioning/faq.html>

Thank you,

Amy

---

**From:** Ghneim, Munira  
**Sent:** Thursday, March 24, 2011 11:28 AM  
**To:** Bonaccorso, Amy  
**Subject:** Mary Garland

Hi Amy,

Mary Garland would like to know if someone could answer a few questions for her regarding continuing liability on land with radiation.

You can reach her (b)(6) or by email at (b)(6) 6

Thank You

Munira Ghneim

Contract Secretary

Office of Information Services

301-415-1170

**From:** Bonaccorso, Amy  
**To:** (b)(6) 6  
**Bcc:** Deavers, Ron  
**Subject:** REPLY: japan crisis. question  
**Date:** Friday, March 25, 2011 10:18:00 AM

---

Hello:

Thank you for your email. Yes, we understand your concerns about the situation in Japan. The NRC has some of the most expert people in the world available to assist the Japanese authorities in whatever way they request. We are fully staffed in all our response teams at this time and working 24-hours a day.

The NRC recommended an evacuation for 50 miles from the nuclear power plants in Japan. However, other than that, we are recommending that people with concerns about U.S. citizens in Japan contact the State Department: [JapanEmergencyUSC@state.gov](mailto:JapanEmergencyUSC@state.gov)

If you are interested in more information about the situation in Japan, you may like this website we put together with material specific to this crisis: <http://www.nrc.gov/japan/japan-info.html>

Thank you,

Amy

---

**From:** (b)(6) 6  
**Sent:** Thursday, March 24, 2011 5:02 PM  
**To:** OPA Resource  
**Subject:** japan crisis. question

i know you get thousands of e mails on this ... im not bashing nuclear power but im a concerned united states american. i have a friend from school she lives in japan 200 miles from where the disastar is... is it safe that distance... news from there things are safe then things are not safe... who to believe. i am just heartbroken about this incident it is not their fault. theres going to be a lot of very sick people. and it is very heartbreaking and sad. how much longer does this have to continue. is there a melt down or not? this is a global issue will affect everybody on the globe in years to come. how far does this have to go before the thought of entombing (like chernobil) the problem sites. to stop further contamination on their land or even as it is airborne. how much longer does water have to be pumped and is it really helping. and will the united states be safe. i live in the midwest... in (b)(6) (b)(6) from where zion plant was and im relieved that that plant is closed.

i as a us citiczen appreciate what you do for americans to try to keep this science that's applied to be somewhat safe... everyday is a learning experiece with these chemicals and what they do. this planet was created and respectively given us a privelage to be here. and lets try to make it here another 100 years.

thank you for taking time to read this. i hope the united states is aiding in anyway to help the people of japan, and also.... for a total global effort to everybody that is on this beautiful planet.

god bless... and hope to maybe see a reply of some sort. thank you again so much for keeping this science safe.. and we will all learn from this ...i hope

R/239

**From:** [Bonaccorso, Amy](#)  
**To:** [Deavers, Ron](#)  
**Subject:** FW: Fukushima  
**Date:** Friday, March 25, 2011 10:26:00 AM

---

**From:** OPA Resource  
**Sent:** Friday, March 25, 2011 8:39 AM  
**To:** Bonaccorso, Amy  
**Subject:** FW: Fukushima

**From:** John Busby/((b)(6)) 6  
**Sent:** Friday, March 25, 2011 7:11 AM  
**To:** OPA Resource  
**Subject:** Fukushima

>To: Office of Public Affairs  
>From: John Busby

You might be interested in my contribution to the UK's HSE/NII in regard to Mike Weightman's review of the Fukushima incident and its consequences to the design of the nuclear new build reactors.

Here it is:-

>To: Mike Weightman  
>From: John Busby ID 000062-00-AR-RI

Subject: Fukushima and the UK

Although there are some features of the BWR that contributed to the current problems at Fukushima, the fundamental problem was the automatic tripping of the four operating reactors by the detection of the earthquake and the shutdown condition of the other two reactors, together with the presumed loss of a grid connection, which meant that the sole means of control and residual core heat management was the standby diesel generator system.

Assuming that the control rods were fully lifted, had there been a means of residual heat removal there might have been no severe consequences of the earthquake and tsunami. Under normal circumstances there would have been no need for the standby generators as there would always have been one at least operating reactor able to maintain supplies to others shutdown and to maintain a filtered, cooled circulation of the spent fuel ponds. There may have been only one standby generation system for the entire complex.

The loss of the standby diesel generation must therefore be the principle concern for the UK new build. I note that in the case of the EPR there are two separate diesel generator facilities, sited at opposite sides of the reactor. The automatic AP1000 passive safety system is dependent on DC and explosive-operated valves and is reliant on

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batteries for its operation, but there are standby generators which could be needed for the spent fuel pond cooling..

However, what has concerned me for some time in regard to any type of reactor associated with the new build is the situation at the end of the claimed operational life of 60 years. Assuming that some of the new build is commissioned in 2020, then 60 years takes the decommissioning to commence in 2080. Thereafter residual heat removal will be needed, but the main problem will be the maintenance of cooling and filtering the contents of the spent fuel ponds. Depending on how long it takes for the last spent fuel to be cool enough to be transferred to the dry casks, there could be a need to require an alternative electricity supply or standby generation to be available until the turn of the century in 2100.

In your review of the Fukushima event and its consequences for the UK, I believe you should consider carefully the situation in 2080 or before then, because (as is a huge problem in the US) there will be a number of filled or in transition spent fuel ponds requiring a secure electricity supply with no associated nuclear generator. There will also be a need for electricity for cranes for placing the spent fuel in the dry casks.

BP's Statistical Review of 2010 recorded a global peak in "all-oils" production in 2008, while the normal "swing" producer, Saudi Arabia experienced its national peak in 2005, so the availability of diesel fuel in the near future, let alone in 2080, must be a cause of concern. It means that because, as in the case of Fukushima all available normal supplies were lost, the fuelling of the standby generators needs consideration by your good self.

You may not concur with this view, but my analysis of the uranium market is that its supply will not match the demands of the current new build, let alone enable the retiring new build fleets to be replaced in 2080. I am not at all sure that diesel can be stored in tanks on the station sites for the necessary 80 years as it may be subject to degradation. As it will be very expensive throughout the period, it could be the subject of theft. As coal is anticipated to last a little longer than oil and natural gas it may even be impossible to maintain a heap of coal and an associated coal-fired generator on the site, nor a suitable biomass alternative.

From the above preamble you will understand that I do not believe that you are able to determine the situation exigent at the time of the closure of the new build. I do not believe that ageing will allow the operation to endure for the 60 years without substantial component renewal, but it may be that the 40 years current lifespan will be attained. But it is still over-optimistic to be able to determine the situation in 2060.

In short the inability to determine the fate of the new build from 2060 to 2080 and beyond means that the new build should be abandoned. This is the conclusion to be drawn from the catastrophe unfolding in Fukushima.

Kind regards

John Busby (Revised 24 March 2011)

(b)(6)

Tel: (b)(6)

Fax: ++44 1284 830808

Email: (b)(6)

The Busby Report: <http://www.after-oil.co.uk>

My articles: <http://www.after-oil.co.uk/articles.htm>

**Royer, Deanna**

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**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 10:38 AM  
**To:** Couret, Ivonne  
**Cc:** Medina, Veronika  
**Subject:** Media - Huffington Post in NY-Question

Chris Kirkhan  
Huffington Post – NY  
[kirkhan@huffingtonpost.com](mailto:kirkhan@huffingtonpost.com)

(b)(6) cell) Ex 6

Re: Post 9/11 security upgrades at plants and physical upgrades for spent fuel pools.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/241

**Deavers, Ron**

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**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 1:16 PM  
**To:** Deavers, Ron  
**Subject:** FW: Public - Question

6 If you can find something online, cool, if not, we could try referring it to someone else.

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:15 PM  
**To:** Bonaccorso, Amy  
**Subject:** Public - Question

Danielle Scott  
(b)(6)

Re: General information on North Anna for project for government class

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/242

**Medina, Veronika**

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**From:** OPA Resource  
**Sent:** Friday, March 25, 2011 2:18 PM  
**To:** Medina, Veronika  
**Subject:** FW: CBS News -- follow-up questions

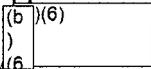
---

**From:** Facey, Paul [<mailto:FaceyP@cbsnews.com>]  
**Sent:** Friday, March 25, 2011 12:52 PM  
**To:** OPA Resource  
**Subject:** FW: CBS News -- follow-up questions

Hello:

Here are additional questions we emailed to Mr. Dricks for a piece airing tonight on CBS Evening News with Katie Couric.

Paul

Paul Facey | Producer | CBS Evening News | w 323-575-2561 | c  [faceyp@cbsnews.com](mailto:faceyp@cbsnews.com)

EX (b)(6)

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**From:** Facey, Paul  
**Sent:** Friday, March 25, 2011 9:47 AM  
**To:** 'Dricks, Victor'  
**Subject:** RE: CBS News -- follow-up questions

Hello Victor:

1. In 2009, the NRC received a "significant increase of allegations" from employees at San Onofre. Were these allegations safety concerns, retaliation claims, or a combination?
2. Are nuclear plant workers required to report violations? Are they required to report violations to the NRC if they get no response from management at the plant? What is the procedure?
3. Can you please clarify what is meant by "human performance" in the written statement? Does that include management?

---

**From:** Dricks, Victor [<mailto:Victor.Dricks@nrc.gov>]  
**Sent:** Thursday, March 24, 2011 12:35 PM  
**To:** Facey, Paul  
**Subject:**

I have attached responses to your questions about San Onofre.

Victor Dricks  
Public Affairs Officer  
U.S. Nuclear Regulatory Commission / Region IV  
612 E. Lamar Blvd., Suite 400  
Arlington, Texas 76011  
(817) 860-8128

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**Medina, Veronika**

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**From:** OPA Resource  
**Sent:** Friday, March 25, 2011 2:20 PM  
**To:** Medina, Veronika  
**Subject:** FW: Radiation Exposure

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

**From:** Brian Hatheway (b)(6)  
**Sent:** Friday, March 25, 2011 10:35 AM  
**To:** OPA Resource  
**Subject:** Radiation Exposure

Below is the result of your feedback form. It was submitted by

Brian Hatheway (b)(6) on Friday, March 25, 2011 at 10:34:43

---

comments: I'm a reporter for the CCAC Voice newspaper and I'm doing an article of the health effects of radiation exposure. I was hoping there was someone within the USNRC that could answer a few questions concerning the subject. Thanks for your time and I hope to talk soon.

-Brian Hatheway  
CCAC Voice

organization: CCAC Voice (collegiate newspaper)

address1: (b)(6)

address2:

city: (b)(6)

state: (b)(6)

zip: (b)(6)

country: (b)(6)

phone: (b)(6) *31210*

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**Deavers, Ron**

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**From:** Deavers, Ron  
**Sent:** Friday, March 25, 2011, 2:31 PM  
**To:** (b)(6) 6  
**Subject:** REPLY RE: Public - Question

You can find general information about the North Anna site at these two link on our web site.  
<http://www.nrc.gov/info-finder/reactor/na1.html>

<http://www.nrc.gov/info-finder/reactor/na2.html>

Or by contacting our Public Document Room at 1-800-397-4209, or  
<http://www.nrc.gov/reading-rm/contact-pdr.html>

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:15 PM  
**To:** Bonaccorso, Amy  
**Subject:** Public - Question

Danielle Scott

(b)(6) 6

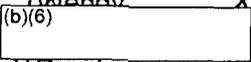
Re: General information on North Anna for project for government class

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**Deavers, Ron**

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**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 2:22 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

TW/Andy  
6  
  
(b)(6)

Re: Is there a schedule for safety inspections of plants in the U.S.  
She also has a detailed question about inspections

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/246

## Deavers, Ron

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**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 2:26 PM  
**To:** Harrington, Holly  
**Cc:** Deavers, Ron  
**Subject:** FW: Public - Question

Holly –

Can someone answer a question about the press release? Below?

6/ Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:57 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Ken Herbert

(b)(6)

Re: Press Release from today – When will the final COL review be complete for the following plants  
Vogtle, Summer and Progress Energy.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

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**From:** [Deavers, Ron](#)  
**To:** [Deavers, Ron](#); [Bonaccorso, Amy](#)  
**Subject:** REPLY FW: Public - Question  
**Date:** Friday, March 25, 2011 2:23:48 PM

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**From:** Deavers, Ron  
**Sent:** Friday, March 25, 2011 2:22 PM  
**To:** 'J.goldsberry@mchsi.com'  
**Subject:** RE: Public - Question

The NRC continues to monitor information regarding wind patterns near the Japanese nuclear power plants. Nevertheless, given the distance between Japan and Hawaii, Alaska, the U.S. Territories, and the U.S. West Coast, we are not expected to experience any harmful levels of radioactivity.

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 1:15 PM  
**To:** Deavers, Ron  
**Subject:** FW: Public - Question

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 11:19 AM  
**To:** Bonaccorso, Amy  
**Subject:** Public - Question

James Goldsberry

(b)(6)

Re: How will HI be affected if Japan plants have a major meltdown.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
Deanna.Royer@nrc.gov

R/axg

**Deavers, Ron**

---

**From:** Deavers, Ron  
**Sent:** Friday, March 25, 2011 3:00 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** REPLY RE: Public - Question

Called, provided information, very nice call.

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 2:53 PM  
**To:** Deavers, Ron  
**Subject:** RE: Public - Question

Sounds good to me.

We can include this name:

Japanese Atomic Energy Commission (JAEC)

---

**From:** Deavers, Ron  
**Sent:** Friday, March 25, 2011 2:47 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question

Maybe something like this: The NRC does not have this information. NRC staff are assisting the Japanese authorities in whatever way they request. We suggest that you contact the Japanese government.

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 2:38 PM  
**To:** Deavers, Ron  
**Subject:** FW: Public - Question

Not sure how/if we can answer this one. Any thoughts?

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 2:27 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Gregory Liles  
(b)(6)

Re: Does the NRC know of a US company who has a contract for radiation protection help in Japan

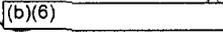
Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

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**Deavers, Ron**

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 12:29 PM  
**To:** Deavers, Ron  
**Subject:** Phone call suggestion

 Ron McClure  


Has suggestions for solving crisis on website – [www.betteramericaplan.com](http://www.betteramericaplan.com)

I told him I would pass it along – he was going on and on – I had to get off the phone!

*R/ASO*

**From:** Layton, Michael  
**To:** Bolling, Lloyd; Bolling, Lloyd  
**Cc:** Erlanger, Craig; Caldwell, Robert; Harrington, Holly; Bonaccorso, Amy; Peduzzi, Francis; Hogan, Rosemary; Siu, Nathan; Coe, Doug; Correia, Richard  
**Subject:** Give me a call  
**Date:** Friday, March 25, 2011 9:27:41 AM

---

We received a request from one of your DNDO colleagues for a classified report. We need to understand his "need to know."

Call me and I'll give details.

MCL

BB: (b)(6) G  
Land line 301-415-7440

R/25/1

**From:** Bonaccorso, Amy  
**To:** Deavers, Ron  
**Subject:** FW: Response from "Contact the NRC Web Site Staff"  
**Date:** Friday, March 25, 2011 3:59:00 PM

---

(I can't finish this one - got stuck on the phone and need to catch the shuttle)

Hello:

It sounds like you might be referring to the International Atomic Energy Commission's ranking system for nuclear accidents.

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

From: OPA Resource  
Sent: Friday, March 25, 2011 3:41 PM  
To: Bonaccorso, Amy  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: NRCWEB Resource  
Sent: Friday, March 25, 2011 3:14 PM  
To: OPA Resource  
Subject: FW: Response from "Contact the NRC Web Site Staff"

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

From: (b)(6)  
Sent: Friday, March 25, 2011 11:18 AM  
To: NRCWEB Resource  
Subject: Response from "Contact the NRC Web Site Staff"

Below is the result of your feedback form. It was submitted by

(b)(6) on Friday, March 25, 2011 at 11:18:22

comments: With the disaster at the Fujiyama, Japan Nuclear Reactors, and compared to Three Mile Island and Chernobyl, How are each ranked ? I know Chernobyl is worst, and entire area closed for 50 thousand year's (according to National Geographic), but Three Mile Island and Fujiyama, how are the compared to Chernobyl?

organization:

address1:

address2:

city:

state: ---

zip:

R/asa

country:

phone:

-----

**From:** Royer, Deanna  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question  
**Date:** Friday, March 25, 2011 2:22:02 PM

---

Wendy  
(b)(6)

Re: Is there a schedule for safety inspections of plants in the U.S.  
She also has a detailed question about inspections

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
Deanna.Royer@nrc.gov

R/253

**From:** [Bonaccorso, Amy](#)  
**To:** [Deavers, Ron](#)  
**Subject:** FW: Question about reactor cost and time to construct  
**Date:** Friday, March 25, 2011 2:29:00 PM

---

I tried to call this guy back –he is not answering and does not have voicemail. I'll have to try again later.

---

**From:** Tobin, Jennifer  
**Sent:** Friday, March 25, 2011 2:17 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Question about reactor cost and time to construct

Amy,  
We are just in the business of regulating. The trade press (specifically NEI) has a lot of numbers and data on this topic. I would recommend steering him to [www.nei.org](http://www.nei.org).

Thanks!  
-Jenny

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

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 10:40 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Question about reactor cost and time to construct

Hey Jenny:

Bethany is out today – so you're my next person in line to ask questions like this to.

Are you aware of anything we have that gives the average cost of a nuclear power plant and the average amount of time for them to be constructed?

I looked online and if it's there on our website, I missed it.

(b)(6)

Ronald MacDonald

(b)(6)

R/254

**From:** [Bonaccorso, Amy](#)  
**To:** [Tobin, Jennifer](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** RE: Question about reactor cost and time to construct  
**Date:** Friday, March 25, 2011 2:28:00 PM

---

Thank you – I will call him back. He does not have a computer, so I am sure his research is going to be hard.

---

**From:** Tobin, Jennifer  
**Sent:** Friday, March 25, 2011 2:17 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Question about reactor cost and time to construct

Amy,  
We are just in the business of regulating. The trade press (specifically NEI) has a lot of numbers and data on this topic. I would recommend steering him to [www.nei.org](http://www.nei.org).

Thanks!  
-Jenny

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

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 10:40 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Question about reactor cost and time to construct

Hey Jenny:

Bethany is out today – so you're my next person in line to ask questions like this to.

Are you aware of anything we have that gives the average cost of a nuclear power plant and the average amount of time for them to be constructed?

I looked online and if it's there on our website, I missed it.

(b)(6)   
Ronald MacDonald  
(b)(6)

**From:** Deavers, Ron  
**To:** Bonaccorso, Amy  
**Subject:** RE: public - Inquirey  
**Date:** Friday, March 25, 2011 2:36:21 PM

---

I agree.

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 2:27 PM  
**To:** Deavers, Ron  
**Subject:** FW: public - Inquirey

Ron –

I am not sure this person is worth calling back. We have their concern documented – it's unlikely we can change their mind.

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 2:16 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** public - Inquirey

Dr. Allan Ruben and Daniella

(b)(6)

Re: Indian Point. They want the plant shut down.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
Deanna.Royer@nrc.gov

R/255

**From:** [Bonaccorso, Amy](#)  
**To:** [Harrington, Holly](#)  
**Cc:** [Deavers, Ron](#)  
**Subject:** FW: Public - Question  
**Date:** Friday, March 25, 2011 2:25:00 PM

---

Holly –

Can someone answer a question about the press release? Below?

Thanks,

Amy

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:57 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Ken Herbert

(b)(6)

Re: Press Release from today – When will the final COL review be complete for the following plants  
Vogle, Summer and Progress Energy.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
Deanna.Royer@nrc.gov

R/2526

**From:** Deavers, Ron  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question  
**Date:** Friday, March 25, 2011 2:54:07 PM

---

Ok, I will call or send an email

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 2:53 PM  
**To:** Deavers, Ron  
**Subject:** RE: Public - Question

Sounds good to me.

We can include this name:

Japanese Atomic Energy Commission (JAEC)

---

**From:** Deavers, Ron  
**Sent:** Friday, March 25, 2011 2:47 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Public - Question

Maybe something like this: The NRC does not have this information. NRC staff are assisting the Japanese authorities in whatever way they request. We suggest that you contact the Japanese government.

---

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 2:38 PM  
**To:** Deavers, Ron  
**Subject:** FW: Public - Question

Not sure how/if we can answer this one. Any thoughts?

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 2:27 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Gregory Liles

(b)(6)

Re: Does the NRC know of a US company who has a contract for radiation protection help in Japan

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
Deanna.Royer@nrc.gov

R/257

**From:** [Bonaccorso, Amy](#)  
**To:** [Deavers, Ron](#)  
**Subject:** FW: Public - Question  
**Date:** Friday, March 25, 2011 1:15:00 PM

---

If you can find something online, cool, if not, we could try referring it to someone else.

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:15 PM  
**To:** Bonaccorso, Amy  
**Subject:** Public - Question

Danielle Scott

(b)(6)

Re: General information on North Anna for project for government class

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
Deanna.Royer@nrc.gov

R/258

**From:** Deavers, Ron  
**To:** Dscott2923@gmail.com  
**Subject:** REPLY RE: Public - Question  
**Date:** Friday, March 25, 2011 2:31:13 PM

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You can find general information about the North Anna site at these two link on our web site.

<http://www.nrc.gov/info-finder/reactor/na1.html>

<http://www.nrc.gov/info-finder/reactor/na2.html>

Or by contacting our Public Document Room at 1-800-397-4209, or

<http://www.nrc.gov/reading-rm/contact-pdr.html>

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:15 PM  
**To:** Bonaccorso, Amy  
**Subject:** Public - Question

Danielle Scott

(b)(6)

Re: General information on North Anna for project for government class

**Royer, Deanna**

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**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 11:19 AM  
**To:** Bonaccorso, Amy  
**Subject:** Public - Question

James Goldsberry

(b)(6)

Re: How will HI be affected if Japan plants have a major meltdown.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

**Royer, Deanna**

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**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:51 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Judy Camisa

(b)(6)

Re: Radiation reaching HI. in authority.

(b)(6)

She would like to speak to someone

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/260

**Royer, Deanna**

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**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 1:57 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Ken Herbert

(b)(6)

Re: Press Release from today – When will the final COL review be complete for the following plants  
Vogtle, Summer and Progress Energy.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/201

**Royer, Deanna**

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**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 2:22 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Wendy

(b)(6) *Exb*

Re: Is there a schedule for safety inspections of plants in the U.S.  
She also has a detailed question about inspections

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

*R/262*

**From:** Bonaccorso, Amy  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** RE: Question about reactor cost and time to construct  
**Date:** Friday, March 25, 2011 2:28:06 PM

---

Thank you – I will call him back. He does not have a computer, so I am sure his research is going to be hard.

**From:** Tobin, Jennifer  
**Sent:** Friday, March 25, 2011 2:17 PM  
**To:** Bonaccorso, Amy  
**Subject:** RE: Question about reactor cost and time to construct

Amy,  
We are just in the business of regulating. The trade press (specifically NEI) has a lot of numbers and data on this topic. I would recommend steering him to [www.nei.org](http://www.nei.org).

Thanks!  
-Jenny

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

**From:** Bonaccorso, Amy  
**Sent:** Friday, March 25, 2011 10:40 AM  
**To:** Tobin, Jennifer  
**Cc:** Deavers, Ron  
**Subject:** Question about reactor cost and time to construct

Hey Jenny:

Bethany is out today – so you're my next person in line to ask questions like this to.

Are you aware of anything we have that gives the average cost of a nuclear power plant and the average amount of time for them to be constructed?

I looked online and if it's there on our website, I missed it.

(b)(6)  
Ronald MacDonald  
(b)(6)

R/263

**From:** (b)(6) 6  
**To:** Bonaccorso, Amy  
**Subject:** Re: REPLY: japan crisis. question  
**Date:** Friday, March 25, 2011 9:24:14 PM

---

thank you for the response and the info. i pray every day this comes to a end soon like everybody else does with keeping people safe..  
god bless our staff there helping and the people in japan too.

thank you sincerely

R/264

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 3:10 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Greg Page

(b)(6) cell) Ex 6

Re: He has employees in Japan and needs information on safety.

Deanna Royer  
Contract Secretary  
Division of New Reactor Licensing  
(301) 415-7158  
[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/265

**Deavers, Ron**

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**From:** Janbergs, Holly on behalf of OPA Resource  
**Sent:** Monday, March 28, 2011 9:03 AM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** FW: Radiation Question

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

6  
From: (b)(6)  
Sent: Friday, March 25, 2011 5:09 PM  
To: OPA Resource  
Subject: Radiation Question

Below is the result of your feedback form. It was submitted by

(b)(6) on Friday, March 25, 2011 at 17:08:50

---

comments: My name is Andrew Schmid and my question is can Bismuth be used to help clean up the radiation in Japan. It is a dense material like lead and it has a low toxicity and it is stable and affordable. I have watched the events in Japan unfold and my concern for the people and environment locally in Japan and the effects felt worldwide is growing. I recently have done a little research on radiation and I dont see any information on cleanup. There is containment, protection, treatment but all I saw on cleanup was a NRC guideline on a room spill and to use normall disinfectants and cleaning supplies and to start at the edge and work to the center and then to contain and store the waste. Do we have any tools to help pick up or alter the radiation so it is no longer harmful? We have not had to deal with many incidents and those we have had to deal with were contained or in remote areas with little public impact felt. The Japan event changes that and we need to begin technoll

ogy that can deal with radiation spills like we do with oil spills. This has not been high on our priority list but it will become so sooner especially if Japan continues to worsen. Is Bismuth part of the solution?

Thank You,

Andrew Schmid

contactName (Andrew J. Schmid)

phone:

---

R/266

**Royer, Deanna**

---

**From:** Royer, Deanna  
**Sent:** Friday, March 25, 2011 2:27 PM  
**To:** Bonaccorso, Amy; Deavers, Ron  
**Subject:** Public - Question

Gregory Liles

(b)(6)

Re: Does the NRC know of a US company who has a contract for radiation protection help in Japan

Deanna Royer  
Contract Secretary  
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[Deanna.Royer@nrc.gov](mailto:Deanna.Royer@nrc.gov)

R/267