

Group AAAA

(Records Withheld  
In Part)

**From:** Kenagy, W David  
**To:** McClelland, Vince; Rodriguez, Veronica; Heinrich, Ann; HOO, Hoc; HOO2, Hoc; Huffman, William; Shaffer, Mark  
A; DeCair, Sara@epamail.epa.gov; timothy.greten@dhs.gov; Maria.Marinissen@hhs.gov;  
(b)(6) doehqec@oem.doe.gov; hhs.soc@hhs.gov; James.Kish@dhs.gov  
**Subject:** For Info: IAEA New Releases  
**Date:** Friday, March 11, 2011 11:03:02 AM  
**Attachments:** News Releases No511.pdf  
News Releases No4 IAEA1.pdf  
News Releases No 2 IAEA1.pdf

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This email is UNCLASSIFIED.

AAAA/1

March 11, 2011

Nuclear and Industrial Safety Agency

Seismic Damage Information (the 5th Release)  
(As of 20:00 March 11, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Higashidori and Onagawa NPSs, Tohoku Electric Power Co., Inc.

Higashidori, Fukushima Dai-ichi, and Fukushima Dai-ni NPSs, Tokyo Electric Power Co., Inc. and works at the Japan Nuclear Fuel, and electricity, gas, heat supply and complex as follows:

1. Summary of Damage

(1) Time of Occurrence: 14:46 (UTC 5:46) March 11, 2011, Friday

(2) Epicenter: Off-Coast of Sanriku (North Latitude: 38; East Longitude: 142.9), 10km deep, M8.8

(3) Seismic Intensity in Japanese Scale

<Area of Seismic Intensity Larger Than and Including 4>

7: Northern Miyagi Prefecture

6+: Northern and southern Ibaraki Prefecture

5+: Sanpachi-Kamikita Aomori Prefecture

5-: Chuetsu, Niigata Prefecture

<Municipality of Seismic Intensity Larger than and Including 4>

6+: Naraha Machi, Tomioka Machi, Ookuma-machi, and Futaba-machi, Fukushima Prefecture

6-: Ishinomaki-city and, Onagawa town (by Seismograph of NPP) of , Miyagi Prefecture and Tokaimura, Ibaraki Pref.

5-: Kariwa-village, Niigata Prefecture

4: Rokkasho-village, Higashidori-village, Aomori Prefecture, Kashiwazaki-city, Niigata Prefecture and Yokosuka-city, Kanagawa Prefecture

1: Tomari-village, Hokkaido

2. The status of operation at Power Stations(Number of automatic shutdown(units): 10 (as of 18:45)

a. Onagawa Nuclear Power Station (Onagawa-machi and Ishinomaki-shi, Miyagi Prefecture)

(1) The status of operation

Unit 1 (524MWe): automatic shutdown

Unit 2 (825MWe): automatic shutdown

Unit 3 (825MWe): automatic shutdown

(2) Readings of monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitor readings: No

(3) Report concerning other malfunction

Report of fire: CO2 extinguishment started at 17:15

b. Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co.,Inc.(TEPCO)

(Okuma-machi and Futaba-machi, Futaba-gun, Fukushima Prefecture )

(1) The status of operation

Unit 1 (460MWe): automatic shutdown

Unit 2 (784MWe): automatic shutdown

Unit 3 (784MWe): automatic shutdown

Unit 4(784MW): in periodic inspection outage

Unit 5(784MW): in periodic inspection outage

Unit 6(1,100MW): in periodic inspection outage

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Article 10\* of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ichi, Unit 3)

(\*A heightened alert condition)

Article 15\*\* of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ichi, Units 1 and 2)

(\*\* Nuclear emergency situation)



c. Fukushima-Daini Nuclear Power Station(TEPCO)

(Naraha-cho/Tomioka-cho, Futaba-gun, Fukushima pref.)

(1) The status of operation

Unit1(1,100MW): automatic shutdown

Unit2(1,100MW): automatic shutdown

Unit3(1,100MW): automatic shutdown

Unit4(1,100MW): automatic shutdown

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Report of fire: No

Article 10\* of Act on Special Measures Concerning Nuclear Emergency  
Preparedness (Fukushima Dai-ni, Units 1,2 and 4)

3. Action taken by NISA

14:46 Set up of the NISA Emergency Preparedness Headquarters (Tokyo)  
immediately after the earthquake

15:42: TEPCO reported to NISA in accordance with Article 10 of the Act on  
Special Measures Concerning Nuclear Emergency Preparedness regarding  
Fukushima Dai-ichi, Units 1,2 and 3.

16:36: TEPCO judged the event in accordance with Article 15 of the Act for  
Special Measures Concerning Nuclear Emergency Preparedness regarding  
Fukushima Dai-ichi, Units 1 and 2.(notified to NISA at 16:45)

18:08: Unit 1 of Fukushima Dai-ni notified NISA of the situation of the  
Article 10 of Act on Special Measures Concerning Nuclear Emergency  
Preparedness.

18:33: Units 1,2 and 4 of Fukushima Dai-ni notified NISA of the situation of  
the Article 10 of Act on Special Measures Concerning Nuclear Emergency  
Preparedness.

19:03 Government declared the state of nuclear emergency

Facilities which have confirmed safety will be eliminated from the next press  
release.

# News Release



(Contact Person)

Mr. Masaomi Koyama

Deputy Director, International Affairs  
Office, NISA/METI

Phone: +81-(0)3-3501-1087

March 11, 2011

Nuclear and Industrial Safety Agency

Seismic Damage Information (the 4th Release)  
(As of 18:45 March 11, 2011)

(\*English version of the 3<sup>rd</sup> release has not published)

Nuclear and Industrial Safety Agency (NISA) confirmed the current conditions of Tomari Power Station, Hokkaido Electric Power Co., Inc.

Higashidori Nuclear Power Station and Onagawa Nuclear Power Station, Tohoku Electric Power Co., Inc

Higashidori Nuclear Power Station,, Fukushima Dai-ichi Nuclear Power Station and Fukushima Dai-ni Nuclear Power Station, Tokyo Electric Power Co., Inc. and works at the Japan Nuclear Fuel are as follows:

Walkdowns are continuing at these power stations.

1. Summary of Damage

(1) Time of Occurrence: 14:46 (UTC 5:46) March 11, 2011, Friday

(2) Epicenter: Off-Coast of Sanriku (North Latitude: 38; East Longitude: 142.9), 10km deep, M8.4

(3) Seismic Intensity in Japanese Scale

<Area of Seismic Intensity Larger Than and Including 4>

7: Northern Miyagi Prefecture

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6+: Naraha Machi, Tomioka Machi, Ookuma-machi, and Futaba-machi, Fukushima Prefecture

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5: Kariwa-village, Niigata Prefecture

4: Rokkasho-village, Higashidori-village, Aomori Prefecture,  
Kashiwazaki-city, Niigata Prefecture and Yokosuka-city, Kanagawa  
Prefecture

1: Tomari-mura, Hokkaido

1. The status of operation at Power Stations

a. Higashidori Nuclear Power Station, Tohoku Electric Power Co., Inc.  
(Higashidori-mura, Shimokita-gun, Aomori Prefecture)

(1) The status of operation

Unit 1 (1,100MWe) : in periodic inspection outage

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Report of fire: No

b. Onagawa Nuclear Power Station (Onagawa-machi and Ishinomaki-shi,  
Miyagi Prefecture)

(1) The status of operation

Unit 1 (524MWe): automatic shutdown

Unit 2 (825MWe): automatic shutdown

Unit 3 (825MWe): automatic shutdown

(2) Readings of monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitor readings: No

(3) Report concerning other malfunction

Report of fire: CO2 extinguishment started at 17:15

c. Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc.  
(Okuma-machi and Futaba-machi, Futaba-gun, Fukushima Prefecture)

(1) The status of operation

Unit 1 (460MWe): automatic shutdown

Unit 2 (784MWe): automatic shutdown

Unit 3 (784MWe): automatic shutdown

Unit 4(784MW): in periodic inspection outage

Unit 5(784MW): in periodic inspection outage

Unit 6(1,100MW): in periodic inspection outage

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Article 10\* of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ichi, Units 1,2 and 3)

(\*A heightened alert condition)

## d. Fukushima Daini Nuclear Power Station (TEPCO)

(Naraha-cho/Tomioka-cho, Futaba-gun, Fukushima pref.)

(1) The status of operation

Unit1(1,100MW): automatic shutdown

Unit2(1,100MW): automatic shutdown

Unit3(1,100MW): automatic shutdown

Unit4(1,100MW): automatic shutdown

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Report of fire: No

## 2. JNFL(Rokkasho-mura, Kamikita-gun, Aomori Pref)

(1) The status of operation

Reprocessing facility: Originally outage

(2) Report concerning other malfunction

Report of fire: No

## 2. Action taken by NISA

14:46 Set up of the NISA Emergency Preparedness Headquarters (Tokyo)  
immediately after the Earthquake

15:42: TEPCO reported to NISA in accordance with Article 10 of the Act on  
Special Measures Concerning Nuclear Emergency Preparedness regarding

# News Release



Fukushima Dai-ichi, Units 1,2 and 3.

16:36: TEPCO notified to NISA in accordance with Article 15 of the Act for Special Measures Concerning Nuclear Emergency Preparedness regarding Fukushima Dai-ichi, Units 1 and 2.

All facilities which have been confirmed safety will be eliminated from next press release.

(Contact Person)

Mr. Masaomi Koyama

Deputy Director, International Affairs  
Office, NISA/METI

Phone:+81-(0)3-3501-1087

March 11, 2011

Nuclear and Industrial Safety Agency

Seismic Damage Information (the 2nd Release)  
(As of 16:15 March 11, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current conditions of Tomari Power Station, Hokkaido Electric Power Co., Inc.

Higashidori Nuclear Power Station and Onagawa Nuclear Power Station, Tohoku Electric Power Co., Inc

Higashidori Nuclear Power Station,, Fukushima Dai-ichi Nuclear Power Station and Fukushima Dai-ni Nuclear Power Station, Tokyo Electric Power Co., Inc. and works at the Japan Nuclear Fuel are as follows:

Walkdowns are continuing at these power stations.

1. Summary of Damage

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(2) Epicenter: Off-Coast of Sanriku (North Latitude: 38; East Longitude: 142.9)

10km deep, M7.9

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6-: Ishinomaki-city and, Onagawa town (by Seismograph of NPP)of ,

Miyagi Prefecture and Tokaimura, Ibaraki Pref.

5: Kariwa-village, Niigata Prefecture

4: Rokkasho-village, Higashidori-village, Aomori Prefecture,  
Kashiwazaki-city, Niigata Prefecture and Yokosuka-city, Kanagawa  
Prefecture

1: Tomari-mura, Hokkaido

## 1. The status of operation at Power Stations

a. Tomari Power Station: Hokkaido Electric Power Co., Inc. (Tomari-mura,  
Fururu-gun, Hokkaido)

### (1) The status of operation

Unit 1 (579MWe): In continued operation

Unit 2 (579MWe): In continued operation

Unit 3 (912MWe): In continued operation

### (2) Readings at monitoring post etc.

Variation in the monitoring post readings: Yes/No

Variation in the main stack monitor readings: Yes/No

### (3) Report concerning other malfunction

b. Higashidori Nuclear Power Station, Tohoku Electric Power Co., Inc.  
(Higashidori-mura, Shimokita-gun, Aomori Prefecture)

### (1) The status of operation

Unit 1 (1,100MWe) (outage for periodic inspection)

### (2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

### (3) Report concerning other malfunction

Report of fire: No

c. Onagawa Nuclear Power Station (Onagawa-machi and Ishinomaki-shi,  
Miyagi Prefecture)

### (1) The status of operation

Unit 1 (524MWe) (Automatic shutdown)



Unit 2 (825MWe) (Automatic shutdown)

Unit 3 (825MWe) (Automatic shutdown)

(567 Gal was observed on the foundation slab. )

(2) Readings of monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitor readings: No

(3) Report concerning other malfunction

Report of fire: No -Confinement function was confirmed.

d. Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc. (Okuma-machi and Futaba-machi, Futaba-gun, Fukushima Prefecture )

(1) The status of operation

Unit 1 (460MWe) (Automatic shutdown)

Unit 2 (784MWe) (Automatic shutdown)

Unit 3 (784MWe) (Automatic shutdown)

Unit4(784MW): in periodic inspection outage

Unit5(784MW): in periodic inspection outage

Unit6(1,100MW): in periodic inspection outage

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Article 10\* of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ichi(Units 1,2 and 3)

(\* In a heightened alert conditioning)

e. Fukushima-Daini Nuclear Power

Station(TEPCO)(Naraha-cho/Tomioka-cho, Futaba-gun, Fukushima pref.)

(1) The status of operation

Unit1(1,100MW): (Automatic shutdown)

Unit2(1,100MW): (Automatic shutdown)

Unit3(1,100MW): (Automatic shutdown)

Unit4(1,100MW): (Automatic shutdown)

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Report of fire: No-Confinement function was confirmed.

f. Tokai Dai-ni Nuclear Power Station(JAPC)

(1) The status of operation

Unit1(1,100MW): Automatically shut down

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Report of fire: No- Confinement function was confirmed.

2. JNFL(Rokkasyo-mura, Kamikita-gun, Aomori Pref)

(1) The status of operation

Reprocessing facility: Originally outage

(2) Report concerning other malfunction

Report of fire: No - Confinement function was confirmed.

3. Action taken by NISA

14:46 Set up of the NISA Emergency Preparedness Headquarters (Tokyo)  
immediately after the Earthquake

15:42: TEPCO reported to NISA in accordance with Article 10 of Act on  
Special Measures Concerning Nuclear Emergency Preparedness (Fukushima  
Dai-ichi(Units 1,2 and 3)

All facilities which will be confirmed safely will be eliminated from next  
press release

(Contact Person)

Mr. Masaomi Koyama

Deputy Director, International Affairs

# News Release



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Office, NISA/METI

Phone: +81-(0)3-3501-1087

## **Hansell, Samuel**

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**From:** Barkley, Richard  
**Sent:** Friday, March 11, 2011 4:36 PM  
**To:** Hansell, Samuel  
**Subject:** FW: See in Red - Any Idea What This is About?? Did Fresh Water for Make-up run out, or is this just an error - Thanks!

I hope to find out next week why this was necessary. Presumably the planes were ferrying water from Okinawa to the site, a flight of under an hour.

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**From:** Barkley, Richard  
**Sent:** Friday, March 11, 2011 4:24 PM  
**To:** Fuhrmeister, Roy  
**Subject:** FW: See in Red - Any Idea What This is About?? Did Fresh Water for Make-up run out, or is this just an error - Thanks!

As astonishing as it may seem, the Japanese desk officer in the Office of International Programs tells me this is true.

My guess is that they used up all of their fresh water in storage during the event, and their fresh water makeup must have been damaged or lost power for pumping – Fukushima is on the ocean. Using unprocessed seawater in a BWR vessel would have been last ditch.

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**From:** Foggie, Kirk  
**Sent:** Friday, March 11, 2011 4:17 PM  
**To:** Barkley, Richard  
**Subject:** Re: See in Red - Any Idea What This is About?? Did Fresh Water for Make-up run out, or is this just an error - Thanks!

The red font is correct. Not sure why it was needed. I have been out of the loop after I turned over my info source to someone in my office who has been providing all info to the HOOs.  
Sent from Blackberry.

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**From:** Barkley, Richard  
**To:** Foggie, Kirk  
**Sent:** Fri Mar 11 16:06:27 2011  
**Subject:** See in Red - Any Idea What This is About?? Did Fresh Water for Make-up run out, or is this just an error - Thanks!

## **Japan issues atomic energy emergency after earthquake**

By [Laura Rozen](#)

By [Laura Rozen](#) [laura Rozen](#) – 1 hr 53 mins ago

Japan declared an atomic power emergency Friday, ordering the evacuation of thousands of residents living nearby the Fukushima nuclear power plant, which was damaged in that country's magnitude 8.9-magnitude earthquake. This marks the first time that Japan has issued such a warning for one of its nuclear facilities.

The New York Times reports that a continuing major concern at the Fukushima 1 nuclear power plant, northeast of Tokyo, is over its cooling system. In a separate AP dispatch, Japanese officials announced their plan to release "slightly radioactive" vapor that had built up in the system since the quake disabled normal cooling functions. Pressure in one of the plant's six cooling towers had increased to a level 1.5 times what's considered normal, the wire service reported.

The plant's cooling facility requires an uninterrupted supply of electricity to cool the heat from radioactive fuel rods even after engineers have taken the remainder of the plant offline. As Times reporter Matthew L. Wald



explains:

*Heat from the nuclear fuel rods must be removed by water in a cooling system, but that requires power to run the pumps and to align the valves in the pipes. So the plant requires a continuous supply of electricity even after the reactor stops generating its own power. [...]*

*Civilian power reactors are designed with emergency diesel generators to assure the ability to continue cooling even during a blackout. ...It was not immediately clear how many there are at Fukushima, but the operators reported earlier in the day that they were not working, prompting the evacuation.*

*Fukushima 1, which was designed by General Electric and entered commercial service in 1971, was probably equipped to function for some hours without emergency diesel generators, according to David Lochbaum, who worked at three American reactor complexes that use General Electric technology. ...*

*If the cooling system remains inoperative for many hours, the water would eventually boil away, he said, and the fuel would begin to melt. That is what happened at Three Mile Island, the reactor near Harrisburg, Pa., that suffered a partial core melt in March 1979. In that case the cause was not an earthquake, but mechanical failure, operator error and poor design, government investigators later found.*

*Mr. Lochbaum, who now works for the Union of Concerned Scientists, a group that is very often critical of nuclear safety standards, said that if the cooling water in the vessel was boiling away, the process of boiling enough to expose the fuel would take "hours, not minutes."*

**Secretary of State Hillary Clinton said Friday that U.S. Air Force planes stationed in Japan had helped ferry emergency coolant to the plant, the paper reported.**

Meanwhile, an analyst with the international nuclear power group, the World Nuclear Association, told Reuters that water was now being pumped into the cooling system at Fukushima, describing the situation as "under control."

(The Fukushima No. 1 plant in Fukushima Prefecture, northern Japan, in October 2008. Kyodo, via AP.)

Richard S. Barkley, PE  
Nuclear & Environmental Engineer  
(610) 337-5065 Work

(b)(6)

**Barkley, Richard**

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**From:** Foggie, Kirk  
**Sent:** Friday, March 11, 2011 9:15 AM  
**To:** Barkley, Richard  
**Cc:** Fragoyannis, Nancy; Mamish, Nader  
**Subject:** RE: Any Details You Can Share From Our Japanese Colleagues on Their Ongoing Plant Event & Nearby Evacuation?  
**Attachments:** 110311\_press\_release\_on\_earthquake1 (2).pdf; News Releases No4\_IAEA.docx; News Releases No.2\_IAEA.docx

Rich,

This is what we received earlier this morning. Will send you updates later.

Kirk

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**From:** Barkley, Richard  
**Sent:** Friday, March 11, 2011 9:13 AM  
**To:** Foggie, Kirk  
**Cc:** Fragoyannis, Nancy; Mamish, Nader  
**Subject:** Any Details You Can Share From Our Japanese Colleagues on Their Ongoing Plant Event & Nearby Evacuation?

Thanks!

Richard S. Barkley, PE  
Nuclear & Environmental Engineer  
(610) 337-5065 Work  
(b)(6) Cell

AAAA/3

**Effect of the earthquake on the Nuclear Facilities in North-east area of Japan**

(as of 2:46pm, 11of March, 2011)

**Effect of earthquake on the Nuclear Facilities from the earthquake**

Current status of nuclear facilities are as follows:

**1. Onagawa Nuclear Power Station**

- Units 1,2 and 3: Automatically shut down.

**2. Fukushima-Daini Nuclear Power Station**

- Units 1,2 and 3: Automatically shut down.

- Units 4,5 and 6: in periodic inspection outage

**3. Fukushima-Daini Nuclear Power Station**

- Units 1,2,3 and Unit4 : Automatically shut down.

**4. Higashi-Dori Nuclear Power Station**

- in periodic inspection outage

**5. Rokkasho reprocessing facility**

- emergency diesel generator is supplying electricity

**6. Tokai Dai-ni Nuclear Power Station: automatically shut down**

**7. Hamaoka Nuclear Power Station**

- Units 4 and 5: are operating

- Unit 3: in periodic inspection outage

**8. Kashiwazaki-Kariwa Nuclear Power Station**

- Units 1,5,6 and 7: are operating

- Units 2,3 and 4: in periodic inspection outage

**9. Tomari Nuclear Power Station**

- Units 1,2 and 3: are operating



There is no report of abnormal monitoring readings around NPPs that indicate irregular value at this time.

There are no reports of fire or failure.

Staff of NISA are gathering information

Contacts: +81-(0)3-3501-1087

International Affairs Office

Nuclear and Industrial Safety Agency(NISA)

March 11, 2011

Nuclear and Industrial Safety Agency

Seismic Damage Information (the 4th Release)  
(As of 18:45 March 11, 2011)

(\*English version of the 3<sup>rd</sup> release has not published)

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Higashidori Nuclear Power Station and Onagawa Nuclear Power Station, Tohoku Electric Power Co., Inc

Higashidori Nuclear Power Station,, Fukushima Dai-ichi Nuclear Power Station and Fukushima Dai-ni Nuclear Power Station, Tokyo Electric Power Co., Inc. and works at the Japan Nuclear Fuel are as follows:

Walkdowns are continuing at these power stations.

1. Summary of Damage

- (1) Time of Occurrence: 14:46 (UTC 5:46) March 11, 2011, Friday
- (2) Epicenter: Off-Coast of Sanriku (North Latitude: 38; East Longitude: 142.9), 10km deep, M8.4
- (3) Seismic Intensity in Japanese Scale  
<Area of Seismic Intensity Larger Than and Including 4>  
7: Northern Miyagi Prefecture  
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5: Kariwa-village, Niigata Prefecture

4: Rokkasho-village, Higashidori-village, Aomori Prefecture,  
Kashiwazaki-city, Niigata Prefecture and Yokosuka-city, Kanagawa  
Prefecture

1: Tomari-mura, Hokkaido

## 1. The status of operation at Power Stations

a. Higashidori Nuclear Power Station, Tohoku Electric Power Co., Inc.  
(Higashidori-mura, Shimokita-gun, Aomori Prefecture)

### (1) The status of operation

Unit 1 (1,100MWe) : in periodic inspection outage

### (2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

### (3) Report concerning other malfunction

Report of fire: No

b. Onagawa Nuclear Power Station (Onagawa-machi and Ishinomaki-shi,  
Miyagi Prefecture)

### (1) The status of operation

Unit 1 (524MWe): automatic shutdown

Unit 2 (825MWe): automatic shutdown

Unit 3 (825MWe): automatic shutdown

### (2) Readings of monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitor readings: No

### (3) Report concerning other malfunction

Report of fire: CO2 extinguishment started at 17:15

c. Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc.  
(Okuma-machi and Futaba-machi, Futaba-gun, Fukushima Prefecture)

### (1) The status of operation

Unit 1 (460MWe): automatic shutdown

Unit 2 (784MWe): automatic shutdown

Unit 3 (784MWe): automatic shutdown

Unit 4(784MW): in periodic inspection outage

Unit 5(784MW): in periodic inspection outage

Unit 6(1,100MW): in periodic inspection outage

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Variation in the main stack monitoring readings: No

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Article 10\* of Act on Special Measures Concerning Nuclear Emergency

Preparedness (Fukushima Dai-ichi, Units 1,2 and 3)

(\*A heightened alert condition)

d. Fukushima-Daini Nuclear PowerStation(TEPCO)

(Naraha-cho/Tomioka-cho, Futaba-gun, Fukushima pref.)

(1) The status of operation

Unit1(1,100MW): automatic shutdown

Unit2(1,100MW): automatic shutdown

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(Contact Person)

Mr. Masaomi Koyama

Deputy Director, International Affairs  
Office, NISA/METI

Phone: +81-(0)3-3501-1087

March 11, 2011

Nuclear and Industrial Safety Agency

Seismic Damage Information (the 2nd Release)  
(As of 16:15 March 11, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current conditions of Tomari Power Station, Hokkaido Electric Power Co., Inc.

Higashidori Nuclear Power Station and Onagawa Nuclear Power Station, Tohoku Electric Power Co., Inc

Higashidori Nuclear Power Station,, Fukushima Dai-ichi Nuclear Power Station and Fukushima Dai-ni Nuclear Power Station, Tokyo Electric Power Co., Inc. and works at the Japan Nuclear Fuel are as follows:

Walkdowns are continuing at these power stations.

1. Summary of Damage

1. Summary of Damage

(1) Time of Occurrence: 14:46 (UTC 5:46) March 11, 2011, Friday

(2) Epicenter: Off-Coast of Sanriku (North Latitude: 38; East Longitude: 142.9)

10km deep, M7.9

(3) Seismic Intensity in Japanese Scale

<Area of Seismic Intensity Larger Than and Including 4>

7: Northern Miyagi Prefecture

6+: Northern and southern Ibaraki Prefecture

5+: Sanpachi-Kamikita Aomori Prefecture

5-: Chuetsu, Niigata Prefecture

<Municipality of Seismic Intensity Larger than and Including 4>

6+: Naraha Machi, Tomioka Machi, Ookuma-machi, and Futaba-machi, Fukushima Prefecture

6-: Ishinomaki-city and, Onagawa town (by Seismograph of NPP)of ,

Miyagi Prefecture and Tokaimura, Ibaraki Pref.

5: Kariwa-village, Niigata Prefecture

4: Rokkasho-village, Higashidori-village, Aomori Prefecture,  
Kashiwazaki-city, Niigata Prefecture and Yokosuka-city, Kanagawa  
Prefecture

1: Tomari-mura, Hokkaido

## 1. The status of operation at Power Stations

a. Tomari Power Station: Hokkaido Electric Power Co., Inc. (Tomari-mura,  
Furukawa-gun, Hokkaido)

### (1) The status of operation

Unit 1 (579MWe): In continued operation

Unit 2 (579MWe): In continued operation

Unit 3 (912MWe): In continued operation

### (2) Readings at monitoring post etc.

Variation in the monitoring post readings: Yes/No

Variation in the main stack monitor readings: Yes/No

### (3) Report concerning other malfunction

b. Higashidori Nuclear Power Station, Tohoku Electric Power Co., Inc.  
(Higashidori-mura, Shimokita-gun, Aomori Prefecture)

### (1) The status of operation

Unit 1 (1,100MWe) (outage for periodic inspection)

### (2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

### (3) Report concerning other malfunction

Report of fire: No

c. Onagawa Nuclear Power Station (Onagawa-machi and Ishinomaki-shi,  
Miyagi Prefecture)

### (1) The status of operation

Unit 1 (524MWe) (Automatic shutdown)

Unit 2 (825MWe) (Automatic shutdown)

Unit 3 (825MWe) (Automatic shutdown)

(567 Gal was observed on the foundation slab. )

(2) Readings of monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitor readings: No

(3) Report concerning other malfunction

Report of fire: No - Confinement function was confirmed.

d. Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc. (Okuma-machi and Futaba-machi, Futaba-gun, Fukushima Prefecture )

(1) The status of operation

Unit 1 (460MWe) (Automatic shutdown)

Unit 2 (784MWe) (Automatic shutdown)

Unit 3 (784MWe) (Automatic shutdown)

Unit4(784MW): in periodic inspection outage

Unit5(784MW): in periodic inspection outage

Unit6(1,100MW): in periodic inspection outage

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Article 10\* of Act on Special Measures Concerning Nuclear Emergency Preparedness (Fukushima Dai-ichi(Units 1,2 and 3)

(\* In a heightened alert conditioning)

e. Fukushima Dai-ichi Nuclear Power

Station(TEPCO)(Naraha-cho/Tomioka-cho, Futaba-gun, Fukushima pref.)

(1) The status of operation

Unit1(1,100MW): (Automatic shutdown)

Unit2(1,100MW): (Automatic shutdown)

Unit3(1,100MW): (Automatic shutdown)

Unit4(1,100MW): (Automatic shutdown)

(2) Readings at monitoring post etc.



Variation in the monitoring post readings: No  
Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Report of fire: No-Confinement function was confirmed.

f. Tokai Dai-ni Nuclear Power Station(JAPC)

(1) The status of operation

Unit1(1,100MW): Automatically shut down

(2) Readings at monitoring post etc.

Variation in the monitoring post readings: No

Variation in the main stack monitoring readings: No

(3) Report concerning other malfunction

Report of fire: No-Confinement function was confirmed.

2. JNFL(Rokkasho-mura, Kamikita-gun, Aomori Pref)

(1) The status of operation

Reprocessing facility: Originally outage

(2) Report concerning other malfunction

Report of fire: No-Confinement function was confirmed.

3. Action taken by NISA

14:46 Set up of the NISA Emergency Preparedness Headquarters (Tokyo)  
immediately after the Earthquake

15:42: TEPCO reported to NISA in accordance with Article 10 of Act on  
Special Measures Concerning Nuclear Emergency Preparedness (Fukushima  
Dai-ichi(Units 1,2 and 3)

All facilities which will be confirmed safely will be eliminated from next  
press release

(Contact Person)

Mr. Masaomi Koyama

Deputy Director, International Affairs

# News Release



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Office, NISA/METI

Phone: +81-(0)3-3501-1087

**Gray, Mel**

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**From:** Clifford, James  
**Sent:** Friday, March 11, 2011 3:13 PM  
**To:** Bellamy, Ronald; Burritt, Arthur; Dentel, Glenn; Gray, Mel; Jackson, Donald; Krohn, Paul; Powell, Raymond  
**Subject:** FW: Japan Earthquake Info  
**Attachments:** Re: Earthquake position; OECD/NEA - WGPC Secretariat - FW: Japan Situation update (Friday 11 March 11:45 UTC - 19:45 Japan time); RE: OECD/NEA - Japan Friday 11 March 13:45 UTC - Evacuation order to residents

I'll continue to pass on whatever we get.

*Jim Clifford*

Deputy Director  
Division of Reactor Projects  
Region I

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**From:** Kobetz, Timothy  
**Sent:** Friday, March 11, 2011 11:23 AM  
**To:** West, Steven; Reynolds, Steven; Croteau, Rick; Munday, Joel; Clifford, James; Roberts, Darrell; Vogel, Anton; Pruett, Troy; Wilson, Peter  
**Cc:** Brown, Frederick; Thorp, John; Thomas, Eric  
**Subject:** Japan Earthquake Info

Gentlefolk,

Per our discussion at today's DD call attached is information I have received from my international counterparts. I'll let IOEB know that you would be interested in receiving anything they send out.

Tim

AA AA/4

Gray, Mel

**From:** tamao-shigeo@jnes.go.jp  
**Sent:** Friday, March 11, 2011 5:32 AM  
**To:** Steve.NSD.Lewis@hse.gsi.gov.uk; Diane.JACKSON@oecd.org; klaus.kotthoff@grs.de; yves.vandenberghe@belv.be; x.bernard-bruls@iaea.org; alexander.duchac@ec.europa.eu; vc@aerb.gov.in; christian.kirchsteiger@ec.europa.eu; lauriane.giroud-giacomet@asn.fr; Thorp, John; olivier.veyret@asn.fr; pierre.barras@belv.be; leedh@kins.re.kr; michel.bieth@ec.europa.eu; per.bystedt@ssm.se; ismael.yabda@tractebel.com; tim3@wanadoo.fr; thomas.sigrist@ensi.ch; silviu.pop@cncan.ro; hkionk@bfs.de; mikulas.bencat@ujd.gov.sk; jukka.kupila@stuk.fi; kees.desbouvrie@minvrom.nl; evr@csn.es; vmgonzalez@cnsns.gob.mx; k400kmc@kins.re.kr; jouko.turpeinen@fortum.com; andreas.wielenberg@grs.de; leekw@kins.re.kr; leopold.vrankar@gov.si; lgutierrez@cnsns.gob.mx; walter.gloeckle@um.bwl.de; a.nicic@iaea.org; watanabe.norio@jaea.go.jp; remy.bertrand@irsn.fr; pavel.bobaly@ujd.gov.sk; zdenek.tipek@sujb.cz; Rob.Campbell@hse.gsi.gov.uk; francescopaolo.michetti@isprambiente.it; jcb@csn.es; klas.idehaag@ssm.se; Kobetz, Timothy; benoit.poulet@cncs-ccsn.gc.ca; sabhardwaj@npcil.co.in; didier.wattrelos@irsn.fr; giorgio.grimaldi@apat.it; Tabatabai, Omid; masayuki.yoneya@cao.go.jp; vince.fisher@awe.co.uk; dgawande@npcil.co.in; dwchung@kins.re.kr; jiri.vesely@sujb.cz; benjamin.stanford@oecd.org; grigoras.benescu@cncan.ro; mcrm@csn.es; julien.husse@asn.fr; marc.noel@ec.europa.eu; meng@wanocc.org; ales.janezic@gov.si; hans-rudolf.fierz@ensi.ch; burton.valpy@cncs-ccsn.gc.ca; Lukes, Robert; michael.maqua@grs.de; juhasz@haea.gov.hu; seiya.suksi@stuk.fi; kenneth.broman@ssm.se; niina.yliknuussi@ec.europa.eu; michel.lemay@cncs-ccsn.gc.ca; lankin@secnrs.ru; m. Kearney@iaea.org; noguchi-yasunori@meti.go.jp; aspeschkov@mnr.gov.ru; mlgs@csn.es; yang@kins.re.kr; yamamoto-yoshihiro@jnes.go.jp; m.schneider@bfs.de; snrao@aerb.gov.in; fred.vaniddekinge@minvrom.nl; tamao-shigeo@jnes.go.jp; kawaguchi-ken@jnes.go.jp; fichtinger@haea.gov.hu; takahashi-masakazu@meti.go.jp; kozlov-vv@atomenergoprom.ru  
**Subject:** Re: Earthquake position  
**Attachments:** 2011\_03\_11\_(R1)Earthquake(N.Japan).doc

Dear Steve

Attached herewith is a newspaper reports.

Other news will follow.

Once it was reported that a fire occurred at the underground level of the turbine building of Onagawa Unit. But, it has just extinguished.

There were nothing to do with the safety.

Official information will be distributed through IAEA/NEA by NISA.

Just information.

Best regards,

Shigeo Tamao  
JNES

>Has anybody picked up any information on the Japanese Nuclear sites?

>

>

>Steve Lewis

>HM Superintending Inspector

>Unit 3A

>Nuclear Installations Inspectorate

>Nuclear Directorate

>Health and Safety Executive

>Tel 0151 951 3784

>Mobile (b)(6)

>

>

>

>

>From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]

>Sent: 18 February 2011 15:44

>To: klaus.kotthoff@grs.de; yves.vandenberghe@belv.be;

>x.bernard-bruls@iaea.org; alexander.duchac@ec.europa.eu;

>vc@aerb.gov.in; christian.kirchsteiger@ec.europa.eu;

>lauriane.giroud-giacomel@asn.fr; diane.jackson@oecd.org;

>john.thorp@nrc.gov; olivier.veyret@asn.fr; pierre.barras@belv.be;

>leedh@kins.re.kr; michel.bieth@ec.europa.eu; per.bystedt@ssm.se;

>ismael.yabda@tractebel.com; tlm3@wanadoo.fr; thomas.sigrist@ensi.ch;

>silviu.pop@cncan.ro; hklonk@bfs.de; Steve NSD Lewis;

>mikulas.bencat@ujd.gov.sk; jukka.kupila@stuk.fi;

>kees.desbouvrie@minvrom.nl; evr@csn.es; vmgonzalez@cnsns.gob.mx;

>k400kmc@kins.re.kr; jouko.turpeinen@fortum.com;

>andreas.wielenberg@grs.de; leekw@kins.re.kr; leopold.vrankar@gov.si;

>lgtierrez@cnsns.gob.mx; walter.gloeckle@um.bwl.de; a.nicic@iaea.org;

>watanabe.norio@jaea.go.jp; remy.bertrand@irsn.fr;

>pavel.bobaly@ujd.gov.sk; zdenek.tipek@sujb.cz; Rob Campbell;

>francescopaolo.michetti@isprambiente.it; jcb@csn.es;

>klas.idehaag@ssm.se; timothy.kobetz@nrc.gov; benoit.poulet@cnsnc

>-ccsn.gc.ca; sabhardwaj@npcil.co.in; didier.wattrelos@irsn.fr;

>giorgio.grimaldi@apat.it; omid.tabatabai@nrc.gov;

>masayuki.yoneya@cao.go.jp; vince.fisher@awe.co.uk;

>dgawande@npcil.co.in; dwchung@kins.re.kr; jiri.vesely@sujb.cz;

>benjamin.stanford@oecd.org; grigoras.benescu@cncan.ro; mcrm@csn.es;

>julien.hüsse@asn.fr; marc.noel@ec.europa.eu; meng@wanocc.org;

>ales.janezic@gov.si; hans-rudolf.fierz@ensi.ch;

>burtan.valpy@cnsnc-ccsn.gc.ca; robert.lukes@nrc.gov;

>michael.maqua@grs.de; juhasz@haea.gov.hu; seija.suksi@stuk.fi;

>kenneth.broman@ssm.se; niina.yliknuussi@ec.europa.eu;

>michel.lemay@cnsnc-ccsn.gc.ca; lankin@secnrs.ru; m.kearney@iaea.org;

>noguchi-yasunori@meti.go.jp; aspeschkov@mnr.gov.ru; mlgs@csn.es;

>yang@kins.re.kr; yamamoto-yoshihiro@jnes.go.jp; m.schneider@bfs.de;

>snrao@aerb.gov.in; fred.vaniddekinge@minvrom.nl;

>tamao-shigeo@jnes.go.jp; kawaguchi-ken@jnes.go.jp;

>fichtinger@haea.gov.hu; takahashi-masakazu@meti.go.jp;

>kozlov-vv@atomenergoprom.ru

>Subject: CNRAWGOE: Workshop Registration is Open! Updated Workshop

>Announcement

>

>

>

>Dear WGIP and WGOE members -

>

>

>

>Please find attached the updated workshop announcement.

>  
>  
>  
>Of note..

>  
>1) the registration website is LIVE!

>  
>2) Additional information will be needed by email or fax for the  
>site visit. Fax: +331.45.24.11.29

>  
>3) Listed other meeting of note (WG and ACIRS and facilitators  
>meeting) to help with your travel planning.

>  
>  
>  
>I will be away next week, but wanted this out to you before I left!

>  
>  
>  
>Best regards,

>  
>  
>  
>Diane Jackson, Nuclear Safety Specialist Nuclear Safety Division, OECD  
>Nuclear Energy Agency (NEA)  
>Tel.: +33 (0)1 45 24 10 55, Diane.Jackson@oecd.org

>  
>Update your bookmarks! On 1 December 2010, the NEA is moving to:  
>www.oecd-neo.org <<http://www.oecd-neo.org>>

>  
>  
>  
>  
>From: Diane.JACKSON@oecd.org [mailto:Diane.JACKSON@oecd.org]  
>Sent: Tuesday, February 08, 2011 14:48  
>To:  
>Subject: CNRAWGOE: Workshop Preliminary Announcement

>  
>  
>  
>Dear WGOE and WGIP members -

>  
>  
>  
>Please find attached the preliminary announcement for the WGOE workshop  
>on the Utilisation of operating experience in the regulatory inspection  
>programme and of inspection findings in the operating experience  
>programme, and Operating experience and inspection insights from  
>non-conformance of spare parts

>  
>  
>  
>14 - 16 June, 2011 (site visit on 18 June)

>  
 >Hosted by the STUK, Nuclear Regulatory Authority of Finland in  
 >Helsinki, Finland.  
 >  
 >  
 >  
 >The on-line registration link should be active by next week. Hotel  
 >arrangements are made by each participant.  
 >  
 >  
 >  
 >Other Meetings to Note, Location: STUK offices  
 >  
 >Monday 13 June, 9.00-3.00, WGOE meeting  
 >  
 >Monday 13 June, 3.30-5.30, WGOE and WGIP discussion group leaders'  
 >meeting  
 >  
 >Friday 17 June, 9.00 WGOE and WGIP meetings (separate).  
 >  
 >Monday 20 June, 9.00, ACIRS meeting (affected just the ACIRS members)  
 >  
 >  
 >  
 >Separate meeting notices will be issued for WG and ACIRS meetings.  
 >  
 >  
 >  
 >  
 >  
 >Diane Jackson, Nuclear Safety Specialist Nuclear Safety Division, OECD  
 >Nuclear Energy Agency (NEA)  
 >Tel.: +33 (0)1 45 24 10 55, Diane.Jackson@oecd.org  
 >  
 >Update your bookmarks! On 1 December 2010, the NEA is moving to:  
 >[www.oecd-neo.org](http://www.oecd-neo.org) <<http://www.oecd-neo.org>>  
 >  
 >  
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- >[hse.infoline@natbrit.com](mailto:hse.infoline@natbrit.com)
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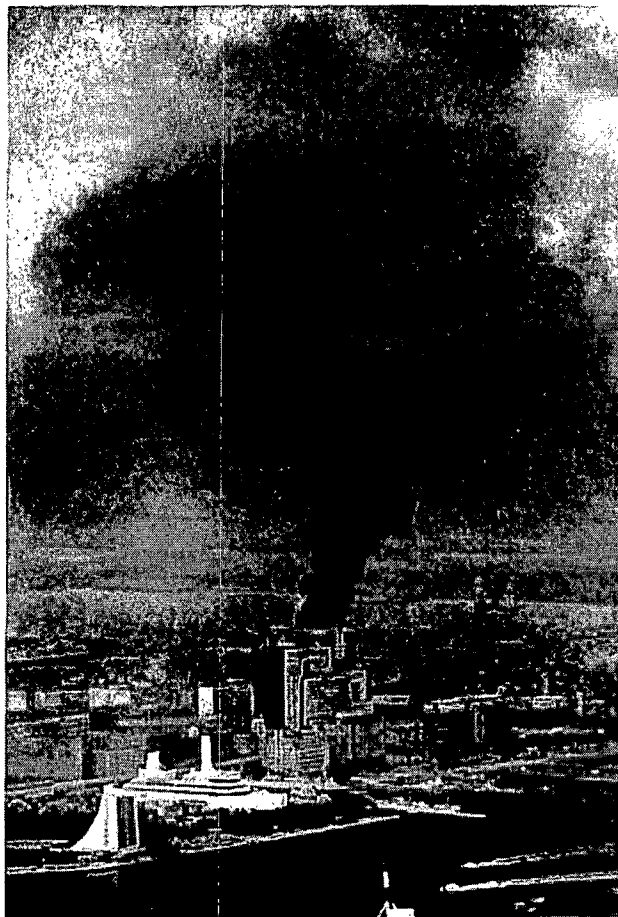


<1> The Mainichi

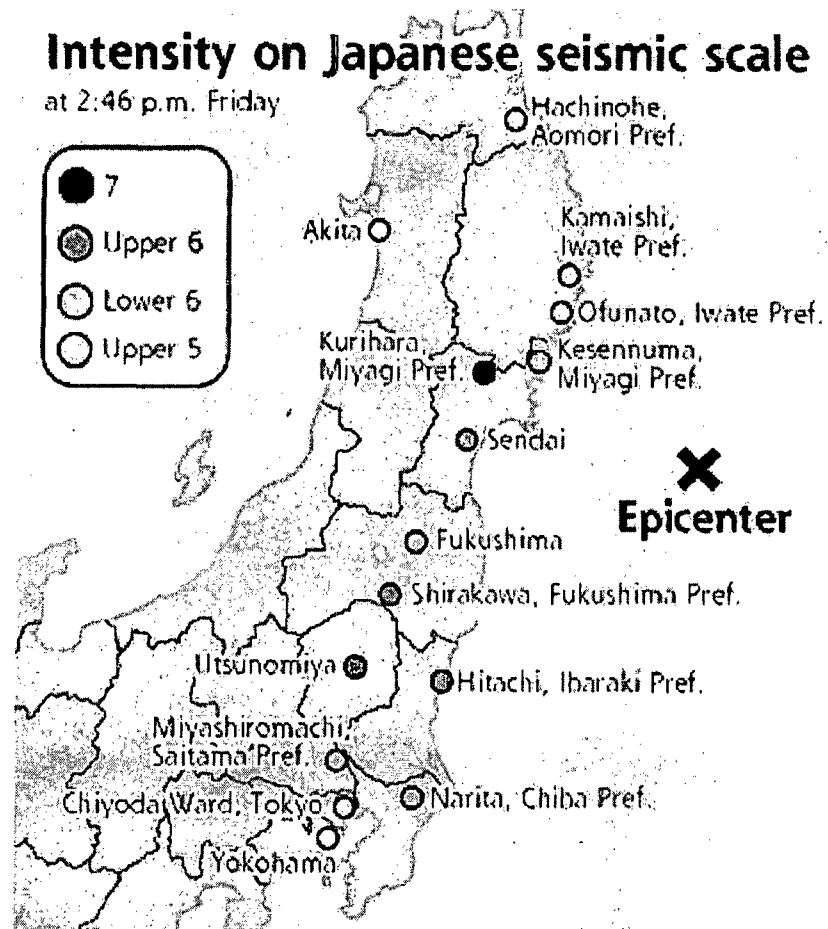
<http://www.yomiuri.co.jp/dy/national/20110311dy01.htm>

## Massive quake strikes northern Japan

The Daily Yomiuri



Smoke billows from a building in Minato Ward, Tokyo, in a fire that broke out following a major earthquake on Friday afternoon.



A powerful earthquake measuring magnitude 8.4 hit northern Japan on Friday afternoon, causing extensive damage in the area, the Meteorological Agency said.

The quake struck 20 kilometers deep off the Sanriku coast in Iwate Prefecture at 2:46 p.m. and lasted several minutes, the agency said. Tsunami caused by the quake struck Kamaishi, Miyako and Yamadamachi in the prefecture, washing away houses.

The quake registered a maximum 7 on the Japanese intensity scale in Kurihara, Miyagi Prefecture.

The Meteorological Agency issued tsunami warnings for Aomori, Iwate, Miyagi, Fukushima, Ibaraki and Chiba prefectures, as well as western Hokkaido along the Pacific Ocean side.

The agency warned the tsunami could reach as high as 10 meters.

Around 3 p.m. a 20-centimeter-high tsunami was observed in Ofunato, Iwate Prefecture, and a 50-centimeter-high tsunami was observed Ishinomaki in the prefecture by 2:52 p.m.

An aftershock measuring 5 on the Japanese intensity scale hit coastal areas in Iwate Prefecture at 3:08 p.m.

Strong tremors were also felt in Tokyo, registering 5 on the Japanese intensity scale.

The quake rattled buildings in central Tokyo, causing at least 10 fires, according to the Tokyo Fire Department.

Parts of the ceiling at Kudan Kaikan hall in Chiyoda Ward, Tokyo, collapsed, injuring a large number of people, according to the fire department. A graduation ceremony of a vocational school was held at that time.

The Economy, Trade and Industry Ministry said the Onagawa nuclear power plant in Onagawa, eastern Miyagi Prefecture, suspended its operations following the earthquake.

East Japan Railway Co. suspended all services on its Shinkansen bullet train and other lines in the Tokyo metropolitan area.

(Mar. 11, 2011)

National

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Massive quake strikes northern Japan (Mar.11)

< 2 > The mainichi

<http://mdn.mainichi.jp/mdnnews/news/20110311p2goomodmo480ooc.html>

## **Major tsunami damage in northern Japan after massive quake**

TOKYO (AP) -- A magnitude 8.9 earthquake slammed Japan's eastern coast Friday, unleashing a 4-meter tsunami that swept boats, cars, buildings and tons of debris miles inland. Fires triggered by the quake burned out of control up and down the coast, including one at an oil refinery.

At least one person was killed and there were reports of several injuries in Tokyo, hundreds of kilometers away, where buildings shook violently through the main quake and the wave of massive aftershocks that followed. A tsunami warning was issued for dozens of Pacific countries, as far away as Chile.

Japan's meteorological agency said that within two hours, large tsunamis washed ashore into dozens of cities along a 2,100-kilometer stretch of the country's eastern shore -- from the northern island of Hokkaido to central Wakayama prefecture.

Prime Minister Naoto Kan said the quake caused "major damage in broad areas" but nuclear power plants in the area were not affected. The government prepared to send troops to the quake-hit areas.

"This is a rare major quake, and damages could quickly rise by the minute," said Junichi Sawada, an official with Japan's Fire and Disaster Management Agency.

TV footage showed waves of muddy waters sweeping over farmland near the city of Sendai, carrying buildings, some on fire, inland as cars attempted to drive away. Sendai airport, north of Tokyo, was inundated with cars, trucks, buses and thick mud deposited over its runways. Fires spread through a section of the city, public broadcaster NHK reported.

The tsunami also roared over embankments in Sendai city, washing cars, houses and farm equipment inland before reversing directions and carrying them out to sea. Flames shot from some of the houses, probably because of burst gas pipes.

Elsewhere, large fishing boats lay upturned on land, some distance from the sea.

Officials were trying to assess damage, injuries and deaths but had no immediate details. Police said at least one person was killed in a house collapse in Ibaraki prefecture, just northeast of Tokyo.

A large fire erupted at the Cosmo oil refinery in Ichihara city in Chiba prefecture near Tokyo and was burning out of control with 30 meter-high flames whipping into the sky.

NHK showed footage of a large ship being swept away by the tsunami and ramming directly into a breakwater in Kesennuma city in Miyagi prefecture.

In various locations along the coast, footage showed massive damage from the tsunami, with cars, boats and even buildings being carried along by waters.

Partially submerged vehicles were seen bobbing in the water.

The U.S. Geological Survey said the quake was a magnitude 8.9, while Japan's meteorological agency measured it at 8.4. It struck at 2:46 p.m. and was followed by 12 powerful aftershocks, seven of them at least 6.3, the size of the quake that struck New Zealand recently.

A tsunami warning was extended to a number of Pacific, Southeast Asian and Latin American nations, including Japan, Russia, Indonesia, New Zealand and Chile. In the Philippines, authorities said they expect a 1-meter high tsunami.

The quake struck at a depth of 10 kilometers, about 125 kilometers off the eastern coast, the agency said. The area is 380 kilometers northeast of Tokyo.

In downtown Tokyo, large buildings shook violently and workers poured into the street for safety. TV footage showed a large building on fire and bellowing smoke in the Odaiba district of Tokyo.

Several nuclear plants along the coast were partially shut down, but there were no reports of any radioactive leakage.

In central Tokyo, trains were stopped and passengers walked along the tracks to platforms. NHK said more than 4 million buildings were without power in Tokyo and its suburbs.



The ceiling in Kudan Kaikan, a large hall in Tokyo, collapsed, injuring an unknown number of people, NHK said.

Osamu Akiya, 46, was working in Tokyo at his office in a trading company when the quake hit.

It sent bookshelves and computers crashing to the floor, and cracks appeared in the walls.

"I've been through many earthquakes, but I've never felt anything like this," he said. "I don't know if we'll be able to get home tonight."

Footage on NHK from their Sendai office showed employees stumbling around and books and papers crashing from desks. It also showed a glass shelter at a bus stop in Tokyo completely smashed by the quake and a weeping woman nearby being comforted by another woman.

Several quakes had hit the same region in recent days, including a 7.3 magnitude one on Wednesday.

Thirty minutes after the main quake, tall buildings were still swaying in Tokyo and mobile phone networks were not working. Japan's Coast Guard has set up a task force and officials are standing by for emergency contingencies, Coast Guard official Yosuke Oi said.

"I'm afraid we'll soon find out about damages, since the quake was so strong," he said.

In Tokyo, hundreds of people were evacuated from Shinjuku train station, the world's busiest, to a nearby park. Trains were halted.

Tokyo's main airport was closed. A large section of the ceiling at the 1-year-old airport at Ibaraki, about 80 kilometers northeast of Tokyo, fell to the floor with a powerful crash.

Dozens of fires were reported in northern prefectures of Fukushima, Sendai, Iwate and Ibaraki. Collapsed homes and landslides were also reported in Miyagi.

Japan's worst previous quake was in 1923 in the Kanto region. That quake killed 143,000 people, according to USGS. An earthquake in Kobe city in 1996 killed 5,502 people.

(Mainichi Japan) March 11, 2011

Gray, Mel

**From:** Jean.GAUVAIN@oecd.org  
**Sent:** Friday, March 11, 2011 7:34 AM  
**To:** klaus.kotthoff@grs.de; yves.vandenberghe@belv.be; imj@csn.es; tanaka-nobuo@jnes.go.jp; petteri.tippaana@stuk.fi; benoit.deboeck@belv.be; Thorp, John; greg.rzentkowski@cnsccsn.gc.ca; jean-christophe.niel@asn.fr; bogdan@secnrs.ru; alexander.duchac@ec.europa.eu; utenkov@gosnadzor.ru; vc@aerb.gov.in; x.bernard-bruls@iaea.org; christian.kirchsteiger@ec.europa.eu; nakamura-koichiro1@meti.go.jp; olivier.veyret@asn.fr; adeline.clos@asn.fr; lauriane.giroud-giacomel@asn.fr; diane.jackson@oecd.org; toshihiko.kamada@mofa.go.jp; pierre.barras@belv.be; Cullingford, Michael; hklonk@bfs.de; jukka.laaksonen@stuk.fi; leedh@kins.re.kr; maciej.jurkowski@paa.gov.pl; michel.bieth@ec.europa.eu; silviu.pop@cncan.ro; roberto.ranieri@isprambiente.it; steve.nsd.lewis@hse.gsi.gov.uk; andrej.stritar@gov.si; ozawa-yoshihiro@jnes.go.jp; (b)(6) marli.vogels@minvrom.nl; mcasero@unesa.es; mikulas.bencat@ujd.gov.sk; jukka.kupila@stuk.fi; christine.wassilew@bmu.bund.de; wolfgang.breyer@kerntext.de; per.bystedt@ssm.se; ryh@kins.re.kr; kees.desbouvrie@minvrom.nl; ismael.yabba@tractebel.com; tlm3@wanadoo.fr; thomas.sigrist@ensi.ch; Astwood, Heather; mike.weightman@hse.gsi.gov.uk; sidorchuk@secnrs.ru; rafal.frac@oecd-poland.org; lgutierrez@cnsns.gob.mx; manfred.schrauben@fanc.fgov.be; evr@csn.es; jouko.turpeinen@fortum.com; vmgonzalez@cnsns.gob.mx; k400kmc@kins.re.kr; acm@csn.es; leekw@kins.re.kr; andreas.wielenberg@grs.de; walter.gloeckle@um.bwl.de; a.nicic@iaea.org; leopold.vrankar@gov.si; francescopaolo.michetti@isprambiente.it; watanabe.norio@jaea.go.jp; remy.bertrand@irsn.fr; jcb@csn.es; franco.malerba@esteri.it; zdenek.tipek@sujb.cz; klas.idehaag@ssm.se; pavel.bobaly@ujd.gov.sk; Holahan, Gary; nnn@gan.ru; rob.campbell@hse.gsi.gov.uk; Kobetz, Timothy; g.caruso@iaea.org; dwchung@kins.re.kr; petr.brandejs@sujb.cz; benoit.poulet@cnsccsn.gc.ca; hans.wanner@ensi.ch; benjamin.stanford@oecd.org; sabhardwaj@npcil.co.in; michael.herttrich@bmu.bund.de; jiri.vesely@sujb.cz; didier.wattrelos@irsn.fr; juergen.wolf@bm.u.bund.de; giorgio.grimaldi@apat.it; ktkim@kins.re.kr; Dudes, Laura; Tabatabai, Omid; rhonda.evans@arpansa.gov.au; masayuki.yoneya@cao.go.jp; vince.fisher@awe.co.uk; irga@csn.es; grigoras.benescu@cncan.ro; dgawande@npcil.co.in; derek.lacey@hse.gsi.gov.uk; lux@haea.gov.hu; soda.kunihisa@jaea.go.jp; ales.janezic@gov.si; len.creswell@hse.gsi.gov.uk; kanno-masanori@jnes.go.jp; georg.schwarz@ensi.ch; marta.ziakova@ujd.gov.sk; lennart.carlsson@ssm.se; i.sokolova@gosnadzor.ru; safety@gan.ru; hans-rudolf.fierz@ensi.ch; marc.noel@ec.europa.eu; burton.valpy@cnsccsn.gc.ca; julien.husse@asn.fr; Lukes, Robert; timo.vanttola@vt.fi; swaller@cnsns.gob.mx; juhasz@haea.gov.hu; michael.maqua@grs.de; seija.suksi@stuk.fi; m.schneider@bfs.de; yhhah@kins.re.kr; dana.drabova@sujb.cz; kirsi.alm-lytz@stuk.fi; kenneth.broman@ssm.se; niina.yliknuussi@ec.europa.eu; wolfgang.hilden@ec.europa.eu; yang@kins.re.kr; Leeds, Eric; michel.lemay@cnsccsn.gc.ca; peter.corcoran@cnsccsn.gc.ca; aspeshkov@mnr.gov.ru; noguchi-y.asunori@meti.go.jp; m. Kearney@iaea.org; kutin@gosnadzor.ru; lankin@secnrs.ru; yamamoto-yoshihiro@jnes.go.jp; mlgs@csn.es; snrao@aerb.gov.in; fred.vaniddekinge@minvrom.nl; karol.janko@ujd.gov.sk; pyw@kins.re.kr; fichtinger@haea.gov.hu; akasaka@mext.go.jp; Johnson, Michael; tamao-shigeo@jnes.go.jp; ralph.schulz@ensi.ch; je@cnsns.gob.mx; soaresjc@cii.fc.ul.pt; takahashi-masakazu@meti.go.jp; kawaguchi-ken@jnes.go.jp; motokuni.eto@cao.go.jp; kozlov-vv@atomenergoprom.ru; alexandra.brasat@amb-roumanie.fr  
**Subject:** OECD/NEA - WGPC Secretariat - FW: Japan Situation update (Friday 11 March 11:45 UTC - 19:45 Japan time)  
**Attachments:** NPP\_Japan\_map2011.pdf

Dear CNRA and WGOE and WGIP Members,

Cc Other WG Chairs

Please find hereafter information about the earthquake in Japan received from our former NEA colleague that was sent earlier today by the NEA secretariat to the WGPC Flashnews network

Update of Japan NPP situation Friday 11 March at 11:45 UTC time.

Jean Gauvain - NEA/NSD – CNRAWGPC Secretariat

**From:** Akihiro YAMAMOTO [mailto:[a-yamamoto@houshasen.tsuruga.fukui.jp](mailto:a-yamamoto@houshasen.tsuruga.fukui.jp)]

**Sent:** Friday, March 11, 2011 12:00

**Subject:** [Yama] Situation update (19:45 Japan time)

NISA is now holding a press conference.

Fukushima 1-1 (ECCS mode)

Fukushima 1-2 (ECCS mode) - Call off the emergency

Fukushima 1-3 (ECCS mode)

Fukushima 2-1 (ECCS mode)

The problem is that they can't monitor water injection (ECCS).

It might be a problem of the monitoring system.

In fact, TEPCO called off the emergency of unit 1-2 a while ago because they are able to monitoring the water level in the reactor now.

Yama

++++  
Akihiro YAMAMOTO

++++  

---

**From:** Akihiro YAMAMOTO [mailto:[a-yamamoto@houshasen.tsuruga.fukui.jp](mailto:a-yamamoto@houshasen.tsuruga.fukui.jp)]

**Sent:** Friday, March 11, 2011 7:30 PM

**Subject:** [Yama] Situation now - ECCS mode

Dear all,

TEPCO (Tokyo Electric Power Company) declared the state of emergency of following NPPs:

Fukushima 1-1

Fukushima 1-2

Fukushima 1-3

Fukushima 2-1 (ECCS mode now)

I am trying to get information why DG can't start up (problem of intake sea water for the cooling DG system?)

There is a fire from turbine building (B1 floor) at Onagawa NPP unit 1 but the fire fighting was completely succeeded.

<http://www.yomiuri.co.jp/dy/national/20110311dy01.htm>

A while ago, Fukui (my office located) had also earthquake (M4.1). We have 15 NPPs but no damage to the NPPs.

Yama

+++++

**Akihiro YAMAMOTO**

Ageing Management Specialist.

Nuclear Safety Measurement Division

Fukui Prefectural Government

Telephone: +81 (0) 776 20 0314

E-mail: [a-yamamoto@houshasen.tsuruga.fukui.jp](mailto:a-yamamoto@houshasen.tsuruga.fukui.jp)

+++++

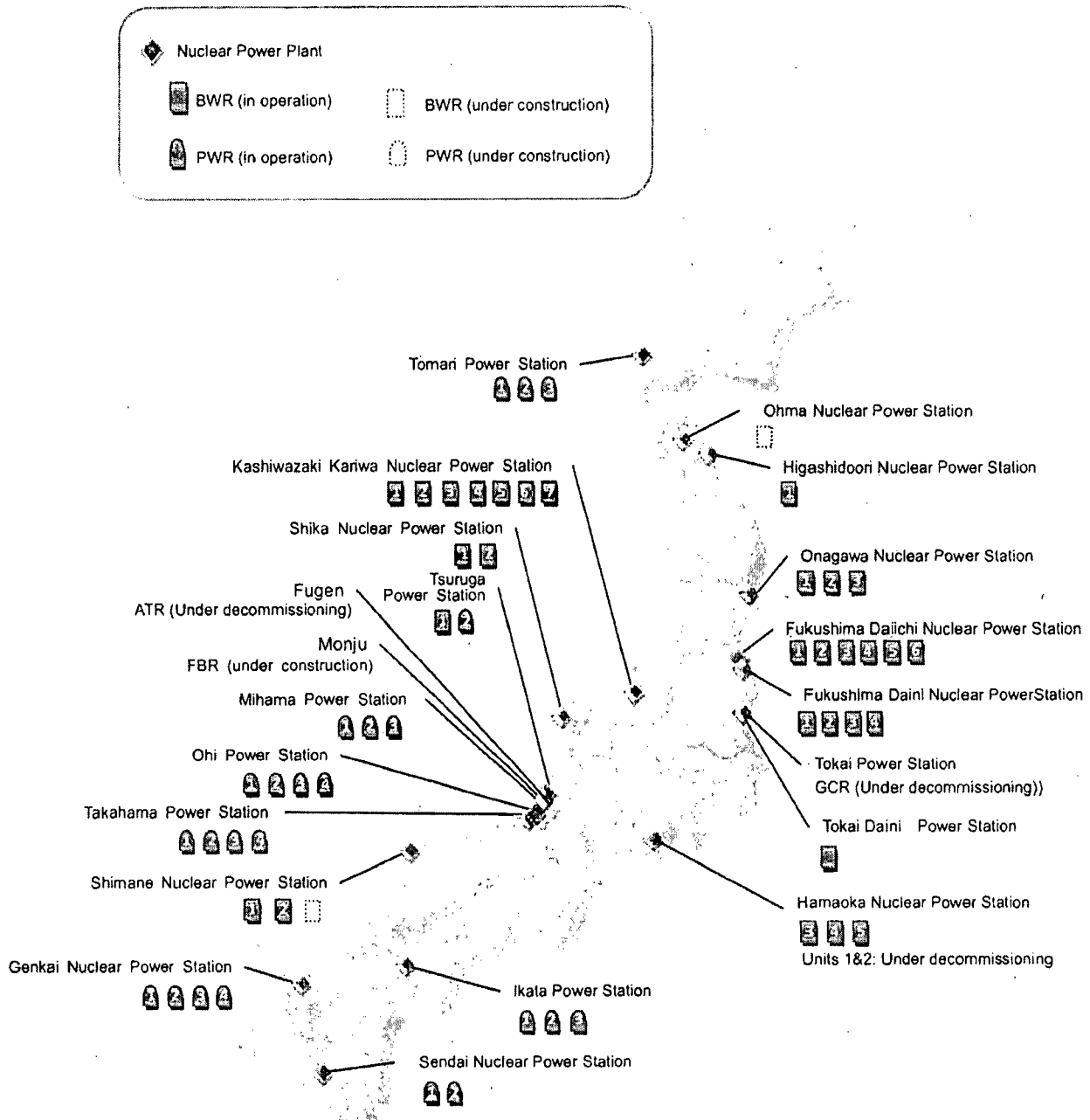


Fig. A-2 Locations of Nuclear Installations

## Dentel, Glenn

---

**From:** Dentel, Glenn  
**Sent:** Friday, March 11, 2011 3:46 PM  
**To:** Perry, Neil; Ibarrola, Sherlyn; Casey, Lauren; Hunegs, Gordon; Kolaczyk, Kenneth; Dempsey, Douglas; Patel, Amar; Hawkins, Justin; Cronk, Kevin  
**Subject:** FW: Earthquake Update as of 11 am  
**Attachments:** NPP\_Japan\_map2011.pdf

FYI on Japan.

---

**From:** Clifford, James  
**Sent:** Friday, March 11, 2011 3:24 PM  
**To:** Bellamy, Ronald; Burritt, Arthur; Dentel, Glenn; Gray, Mel; Jackson, Donald; Krohn, Paul; Powell, Raymond  
**Subject:** FW: Earthquake Update as of 11 am

More earthquake information

*Jim Clifford*

Deputy Director  
Division of Reactor Projects  
Region I

---

**From:** Brown, Frederick  
**Sent:** Friday, March 11, 2011 12:20 PM  
**To:** Cheek, Michael; Christensen, Harold; Croteau, Rick; Roberts, Darrell; Clifford, James; Jones, William; Kennedy, Kriss; Miller, Chris; Moorman, James; Munday, Joel; OBrien, Kenneth; Reynolds, Steven; Shear, Gary; Pruett, Troy; Vogel, Anton; West, Steven; Wilson, Peter  
**Subject:** FW: Earthquake Update as of 11 am

FYI – item 4c of most interest

---

**From:** Thomas, Eric  
**Sent:** Friday, March 11, 2011 11:13 AM  
**To:** Brown, Frederick  
**Cc:** Thorp, John; Garmon-Candelaria, David; Bernardo, Robert; Haskell, Russell; Pannier, Stephen  
**Subject:** Earthquake Update as of 11 am

Fred,

I have been monitoring the phone and email traffic as best I can this morning. There is a lot of repetition so I think it may be useful to summarize the salient points every couple of hours. Here is what I have as of 11:00. I am going over to the Ops Center to see what I can pickup on the 11:00 and 11:45 calls. Based on the amount of traffic going around, you may find it useful (or not) to forward this to ET/LT members.

---

The following information was gathered from several different sources. The best online source of information we have noted thus far is the Tokyo Electric Power Company (TEPCO) website: <http://www.tepco.co.jp/en/index-e.html> which is issuing hourly press releases on the status of its facilities.

1. A magnitude 8.9 earthquake occurred approximately 80 km east of Onagawa NPP and 150 km NE of Fukushima Daichi. USGS believes the quake may have actually been a 7.9. 5 aftershocks measuring between 6.2 and 7.1 on the Richter Scale have been reported.
2. Based on stack monitoring, no radiation releases have occurred from any nuclear facilities.
3. All units that were operating at the time at the Onagawa, Fukushima Daichi, Fukushima Daini, and Tokai Daini sites (11 units in all) automatically shutdown when the earthquake hit at 2:45 pm local time on 3/11.
4. The following complications occurred:
  - a. Onagawa – A small fire occurred in the turbine building and was extinguished.
  - b. Fukushima Daichi – A small fire occurred in a service building and was subsequently extinguished.
  - c. Fukushima Daichi – A first level emergency was declared at 3:42 pm local on 3/11 due to a loss of offsite power and subsequent failure of EDGs which resulted in a station blackout. The loss of EDGs may have been due to a seawater cooling issue. A backup EDG was being brought in on a truck to provide power. An evacuation has been ordered out to 3 km, and residents have been told to shelter in place out to 10 km.
  - d. Fukushima Daini – RCIC is providing cooling to all 4 units that shutdown. In Unit 1, ECCS actuated due to a possible RCS leak into containment. The first level emergency declaration also applies to Fukushima Daini Unit 1.

*Eric Thomas*

U.S. Nuclear Regulatory Commission

NRN/DIRS/IOEB

OWFN-7E24

eric.thomas@nrc.gov

301-415-6772 (office)

(b)(6) (mobile)



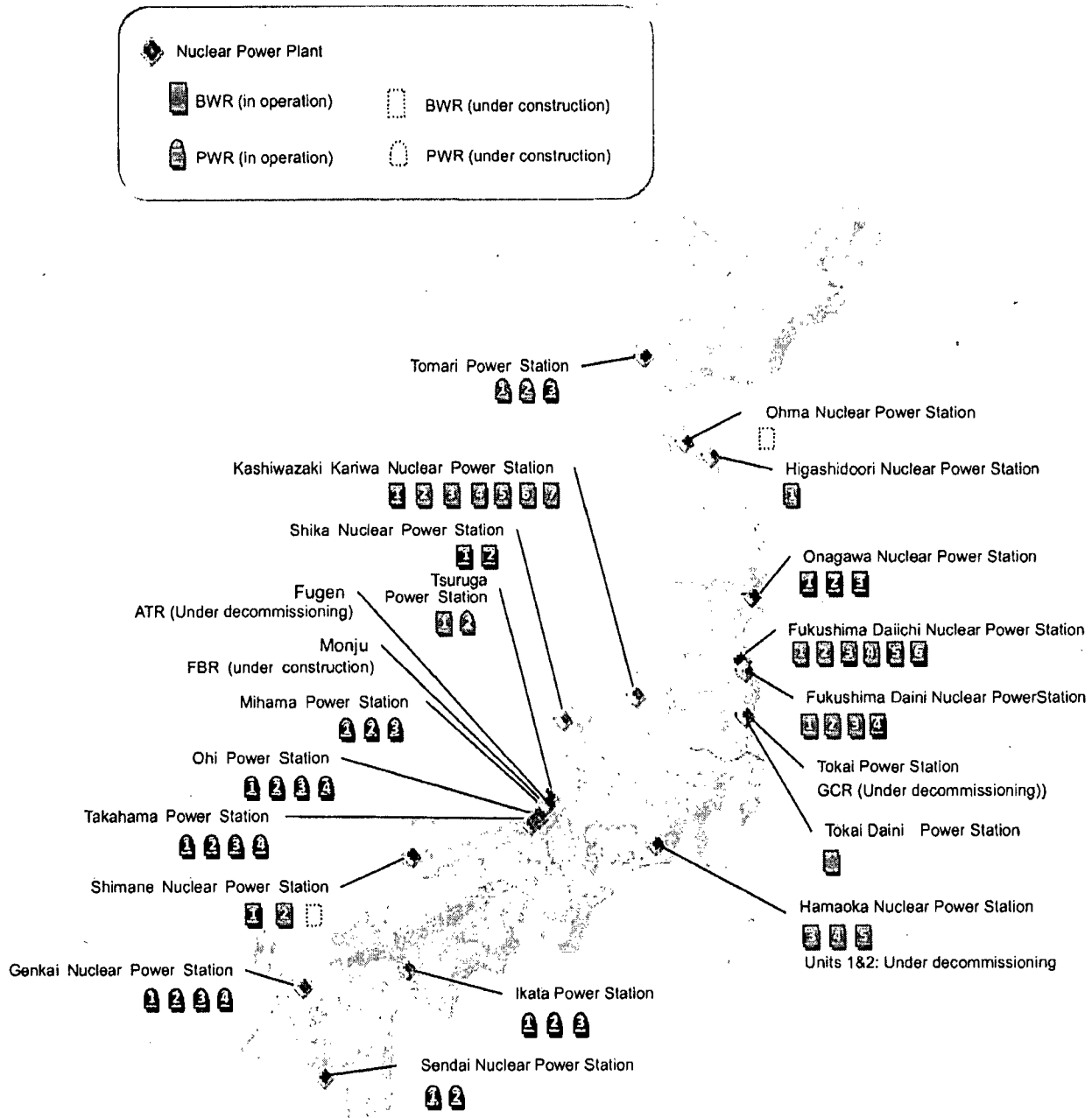


Fig. A-2 Locations of Nuclear Installations

**From:** Kammerer, Annie  
**To:** Harrington, Holly; Hayden, Elizabeth  
**Subject:** Fw: Qs for: diablo canyon comm plan---URGENT  
**Date:** Saturday, March 12, 2011 8:10:50 PM

---

FYI. I'll start thinking about the responses. Please advise when you want it.

Cheers,  
Annie

Sent from an NRC blackberry  
Annie Kammerer  
mobile (b)(6)  
bb (b)(6)  
annie.kammerer@nrc.gov

---

**From:** Uselding, Lara  
**To:** Kammerer, Annie; Burnell, Scott; Markley, Michael; Dricks, Victor; Stuyvenberg, Andrew  
**Cc:** Farnholtz, Thomas; Vogel, Anton; Brenner, Eliot  
**Sent:** Sat Mar 12 16:37:01 2011  
**Subject:** Qs for: diablo canyon comm plan---URGENT

Hello Annie- per our discussion, below are questions for the comm plan. Some are derived from reporters I have spoken with and then some I've created based on recent public topics raised. I use DC for Diablo:

Does the DC design basis include protection from both a worse case earthquake combined with a subsequent tsunami?

Could what's happened in Japan, happen at a plant here in the US?

Are US plants susceptible to the same sort of loss of all diesel power?

Now after the Japan tragedy, will the NRC finally hear us (ANR) and postpone DC license renewal until seismic studies are complete? How can you be sure that what happened there is not going to happen at Diablo with a worse case quake and tsunami?

SONGS received a white finding in 2008 for a bolt issue related to their EDGs that went undetected for 4 years. NRC issued the white as there was risk the EDGs may not have started under seismic conditions. Aren't all plants susceptible to the unknown? Is there any assurance the emergency cooling systems will function as desired in a Japan like emergency?

Lara  
Lara Uselding  
NRC Region 4 Public Affairs  
(b)(6)

---

**From:** Kammerer, Annie  
**To:** Uselding, Lara; Burnell, Scott; Markley, Michael; Dricks, Victor  
**Cc:** Farnholtz, Thomas; Vogel, Anton  
**Sent:** Sat Mar 12 13:28:14 2011  
**Subject:** Re: diablo canyon comm plan---URGENT

I am not sure if I have the latest. Please send ASAP. An updated plan is a very short term deliverable requested today. I realize that this is nearly impossible, but let's at least pull out the key questions.

AAA/6

Cheers,  
Annie

Sent from an NRC blackberry  
Annie Kammerer  
mobile (b)(6)  
bb (b)(6)  
annie.kammerer@nrc.gov

---

**From:** Uselding, Lara  
**To:** Burnell, Scott; Kammerer, Annie; Markley, Michael; Dricks, Victor  
**Cc:** Farnholtz, Thomas; Vogel, Anton  
**Sent:** Sat Mar 12 13:23:35 2011  
**Subject:** Re: diablo canyon comm plan---URGENT

Hi Annie- I thought of you with all the recent activity. We are in the process of updating the comm plan at Tony Vogel's request from our last meeting and due to all the happenings. Tom - CCed above- is managing the collection of seismic data from his team so you should coordinate with he and his team. We would really appreciate your help!

Do you have the latest version? If not, let me know and I'll send it to you.

Lara Uselding

OPA RIV

Lara Uselding

NRC Region 4 Public Affairs

(b)(6)

---

**From:** Burnell, Scott  
**To:** Kammerer, Annie; Markley, Michael; Uselding, Lara; Dricks, Victor  
**Sent:** Sat Mar 12 12:43:56 2011  
**Subject:** RE: diablo canyon comm plan---URGENT

Feel free to provide factual updates and then we can work on language.

---

**From:** Kammerer, Annie  
**Sent:** Saturday, March 12, 2011 12:42 PM  
**To:** Markley, Michael; Burnell, Scott  
**Subject:** diablo canyon comm plan---URGENT

There is discussion about the diablo canyon comm plan. From my recollection, it is pretty out of date. How do you want to proceed. Should we take a look, pick out the key things and update?

**Hansell, Samuel**

---

**From:** Hansell, Samuel  
**Sent:** Saturday, March 12, 2011 7:22 AM  
**To:** Wilson, Peter  
**Subject:** FW: ACTION: Commissioner's Assistant Briefing Notification

---

**From:** [ANS.HOC@nrc.gov](mailto:ANS.HOC@nrc.gov) [ANS.HOC@nrc.gov]  
**Sent:** Saturday, March 12, 2011 6:58 AM  
**To:** Hansell, Samuel  
**Subject:** ACTION: Commissioner's Assistant Briefing Notification

There will be a Commissioner's Assistant Briefing given by HQ Monitoring Team at 0730 am on Saturday March 12 concerning the Japanese Reactor Event. Call (b)(6) approximately 5 minutes before the scheduled start time. When prompted, enter security code (b)(6). You may call 301-816-5164 at this time and follow the voice prompts if you do not wish to receive this notification from our Automatic Notification System.

AAAA/7

**Hansell, Samuel**

---

**From:** (b)(6)  
**Sent:** Saturday, March 12, 2011 8:56 AM  
**To:** Hansell, Samuel  
**Subject:** Fw: Breaking News: Explosion rocks Japanese nuclear power plant

Sent from my Verizon Wireless BlackBerry

---

**From:** (b)(6)  
**Date:** Sat, 12 Mar 2011 13:49:05 +0000  
**To:** (b)(6)  
**ReplyTo:** (b)(6)  
**Subject:** Fw: Breaking News: Explosion rocks Japanese nuclear power plant

Sent from my BlackBerry® smartphone with SprintSpeed

---

**From:** "The Washington Post" <newsletters@email.washingtonpost.com>  
**Date:** Sat, 12 Mar 2011 05:13:02 -0500  
**To:** (b)(6)  
**ReplyTo:** "The Washington Post" <newslettersLNISR7.949013@email.washingtonpost.com>  
**Subject:** Breaking News: Explosion rocks Japanese nuclear power plant

-----  
Breaking News Alert: Explosion rocks Japanese nuclear power plant  
March 12, 2011 5:10:15 AM  
-----

An explosion rocked one of Japan's nuclear power plants Saturday, causing a portion of a building to crumble, sending white smoke billowing into the air and prompting Japanese officials to warn those in the vicinity to cover their mouths and stay indoors.

In what may be the most serious nuclear power crisis since the Chernobyl disaster, the explosion followed large tremors at the Fukushima Daiichi number one reactor Saturday afternoon, injuring four workers who were struggling to get the quake-stricken unit under control.

<http://link.email.washingtonpost.com/r/6041ZA/3OAECE/HSXIQV/GGI7AF/NVH1X/YT/h>

For more information, visit [washingtonpost.com](http://washingtonpost.com)

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AAAA/8

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**From:** Jones, Cynthia  
**To:** HOO Hoc  
**Cc:** Evans, Michele; Virgilio, Martin; Thaggard, Mark  
**Subject:** Fw: New ERF on NEWS, INES Rating: 4, Japan, Power Reactor  
**Date:** Saturday, March 12, 2011 1:24:12 PM

---

Fyi. Very serious event on the INES scale. Provisional rating.....  
(TMI was a level 5)

Cyndi

Cynthia G. Jones, Ph.D.  
Sr. Technical Advisor for Nuclear Security,  
NRC/NSIR  
Sent from blackberry

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

From: NEWS Automated Mailer <ContactPointNEWS@iaea.org>  
To: NEWS.Contact-Point@iaea.org <NEWS.Contact-Point@iaea.org>  
Sent: Sat Mar 12 11:04:13 2011  
Subject: New ERF on NEWS, INES Rating: 4, Japan, Power Reactor

Dear NEWS User,

This is to notify you as a registered user of the NEWS Web site that an Event Rating Form (ERF) for the Event titled:

"Abnormal rise of radioactive dosage value at site boundary (INES Level 4)"

has as of today, Saturday, 12 March 2011, 17:03:19 UTC, been added to the NEWS Web site.  
Additional information regarding the ERF is as follows:

Country: Japan  
Location/Facility: FUKUSHIMA-DAIICHI-1  
Event Type: Power Reactor  
Event Date: 2011.03.12

Rating Date: 2011.03.12  
ERF Version: Provisional  
INES Rating Level: 4

For more detailed information about the ERF, including the related Event and press releases as well as on-site participation in forum discussions, please visit the NEWS Web site at:

<http://www-news.iaea.org/news/>

NEWS Administration

AAAA/9

**From:** Jones, Cynthia  
**To:** Thaggard, Mark; HOO Hoc  
**Cc:** Evans, Michele  
**Subject:** Dr Elena Buglova Is Head of IAEA Incident Emergency Center- Point of Contact for IAEA  
**Date:** Saturday, March 12, 2011 1:20:28 PM

---

Mark

Elena's contact info is e.buglova@iaea.org. Her last 5 digits of phone # at IAEA is x22738. However it will be better for the Ops Officers to go thru the IAEA IEC emergency#

The email I sent the HOOs earlier today from IAEA indicated they were getting regular updates from Japan. I do not believe they are relying on US at all for info on the event  
Call if you need more info

Cyndi

---

Cynthia G. Jones, Ph.D.  
Sr. Technical Advisor for Nuclear Security,  
NRC/NSIR  
Sent from blackberry

---

**From:** Jones, Cynthia  
**To:** E.Buglova@iaea.org <E.Buglova@iaea.org>  
**Sent:** Fri Mar 04 08:38:52 2011  
**Subject:** RE: Q for you on Notification of NRC ENAC Point of Contact for IAEA

Thanks Elena-

Hope to see you the next time I'm at the VIC-

All the best for a great weekend (and I am still crossing my finger position at the IEC! You are a great Director there (and imminently qualified!)

Cyndi

---

**From:** E.Buglova@iaea.org [mailto:E.Buglova@iaea.org]  
**Sent:** Friday, March 04, 2011 6:53 AM  
**To:** Jones, Cynthia  
**Cc:** Temple, Jeffrey; M.Eklund@iaea.org  
**Subject:** RE: Q for you on Notification of NRC ENAC Point of Contact for IAEA

Dear Cyndi

Nice to hear this news, that you will be the ENAC point of contact. Yes, please, direct the letter to me as

Acting Head  
Incident and Emergency Centre



Department of Nuclear Safety and Security  
International Atomic Energy Agency

and copy Mats as well.

With best regards  
Elena

---

**From:** Cynthia.Jones@nrc.gov [mailto:Cynthia.Jones@nrc.gov]  
**Sent:** Wednesday, 02 March 2011 19:28  
**To:** BUGLOVA, Elena  
**Cc:** Temple, Jeffrey; EKLUND, Mats  
**Subject:** Q for you on Notification of NRC ENAC Point of Contact for IAEA  
**Importance:** High

Hello Elena!

I hope all is going well for you at the IEC! Things are going very well here (busy is always good, correct?)

Our office is in the process of drafting a letter of nomination for me to be the NRC's new ENAC point of contact, and just as for the INES Advisory Committee, we want to send this notification to IAEA via a signed letter from our office director. Am I correct in thinking that this letter to IAEA should go to you as the IEC Director? If not, please confirm who best to send the information to. We will also cc Mats as the ENAC Coordinator.

Many thanks!  
Cyndi

Cynthia G. Jones, Ph.D.,  
Sr. Technical Advisor for Nuclear Security  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Security & Incident Response  
Mail Stop T4-D22A, Washington, D.C. 20555

[cynthia.jones@nrc.gov](mailto:cynthia.jones@nrc.gov)

[cgi@nrc.gov](mailto:cgi@nrc.gov)

Work: 301-415-0298

Blackberry: (b)(6)



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**From:** [ANS.HOC@nrc.gov](mailto:ANS.HOC@nrc.gov)  
**Subject:** ACTION: Commissioner's Assistant Briefing Notification  
**Date:** Saturday, March 12, 2011 8:41:09 PM

---

There will be a Commissioner's Assistant Briefing given by Headquarters at 2330 EST concerning the Japan Nuclear Plants. Call (b)(6) approximately 5 minutes before the scheduled start time. When prompted, enter security code (b)(6). You may call 301-816-5164 at this time and follow the voice prompts if you do not wish to receive this notification from our Automatic Notification System.

AAAA/10

**From:** Dennis K Rathbun  
**To:** Hayden, Elizabeth  
**Subject:** Re: As Zech would have said, Let's do it  
**Date:** Saturday, March 12, 2011 8:17:59 PM

---

Fine with me. Just cool those reactors. They seem to be in deep do do. I hope this all works out better than TMI or Chernobyl. I feel for them.

Best

Dennis

(obviously anything I can do, please call.)

Sent from my iPhone

On Mar 12, 2011, at 7:33 PM, "Hayden, Elizabeth" <Elizabeth.Hayden@nrc.gov> wrote:

> Dennis,  
>  
> I am currently in the Ops Center following the Japan event. I leave for Paris early Monday afternoon for a week. So could we do this sometime the following week?

>  
> Beth

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

> From: Dennis K Rathbun (b)(6)  
> Sent: Saturday, March 12, 2011 7:07 PM  
> To: Vietti-Cook, Annette; Hayden, Elizabeth  
> Subject: As Zech would have said, Let's do it

>  
> Ladies

>  
> I am ready. Witnessing ceremony at the Credit Union. Just tell me whatever time works for you. You want to know what you are witnessing, see the attached. Just as a guess probably up from \$5 million dollars.

> That is just a guess. Other stuff does not show up.

>  
> Time has passed. (b)(6)

(b)(6)

(b)(6)

>  
> Dennis  
>

AAAA/11

**From:** LIA04 Hoc  
**To:** Harrington, Holly; Hayden, Elizabeth  
**Cc:** Thaggard, Mark; Turtill, Richard  
**Subject:** RE: Q&As FOR STATES  
**Date:** Saturday, March 12, 2011 9:48:46 PM

---

I agree Holly – thanks for the review

**From:** Harrington, Holly  
**Sent:** Saturday, March 12, 2011 9:48 PM  
**To:** LIA04 Hoc; Hayden, Elizabeth; Virgilio, Martin  
**Subject:** RE: Q&As FOR STATES

These are fine, although likely to be overtaken by events quite soon.

Just clarification that we're talking about people in the U.S. not U.S. citizens in Japan:

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

**A.** No.

**From:** LIA04 Hoc  
**Sent:** Saturday, March 12, 2011 9:43 PM  
**To:** Harrington, Holly; Hayden, Elizabeth; Virgilio, Martin  
**Subject:** RE: Q&As FOR STATES

Ladies –

The State Liaison Team, in conjunction with other NRC Team members, developed the information below using NRC press releases as a means to provide Governor-appointed State Liaison Officers talking points they can use to address questions from their citizenry. Mark Thaggard, the LT Director and I await your review of this information, as we plan to share it with the ET and would like to say we received your input, too. Thanks much.

**Q&A:**

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

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

**Q.** Are there any protective measures that U.S. citizens should be considering?

**A.** No.

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

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

U.S. nuclear power plants have sensitive equipment to monitor the status of radiological

AAAA/12

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

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

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

### **Key Messages:**

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

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

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

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

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

### **Other sources of information:**

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

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

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

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

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

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

**From:** Hayden, Elizabeth  
**To:** Brenner, Eliot  
**Subject:** RE: REPORTER QUESTION - FW: 23 US reactors are same design as Fukushima-1  
**Date:** Saturday, March 12, 2011 7:40:00 PM

---

Delete "BWR"

**From:** Brenner, Eliot  
**Sent:** Saturday, March 12, 2011 7:23 PM  
**To:** Hayden, Elizabeth; Couret, Ivonne  
**Subject:** RE: REPORTER QUESTION - FW: 23 US reactors are same design as Fukushima-1

Most of those are PWRs, not BWRs.

**From:** Hayden, Elizabeth  
**Sent:** Saturday, March 12, 2011 6:00 PM  
**To:** Couret, Ivonne  
**Cc:** Brenner, Eliot  
**Subject:** RE: REPORTER QUESTION - FW: 23 US reactors are same design as Fukushima-1

Answer: There are some BWR nuclear power plants near the sea that use salt water in their condenser cooling systems. They are Diablo Canyon 1 & 2, San Onofre 2 & 3, St. Lucie 1 & 2, Brunswick 1 & 2, Oyster Creek, millstone 2 & 3, Pilgrim, Seabrook, Crystal River, Calvert Cliffs 1 & 2, Salem 1 & 2.

[All plants can take any kind of water if needed in an emergency to protect the public even though the plant would be finished].

**From:** Couret, Ivonne  
**Sent:** Saturday, March 12, 2011 5:54 PM  
**To:** Hayden, Elizabeth  
**Subject:** RE: REPORTER QUESTION - FW: 23 US reactors are same design as Fukushima-1

Eliot is talking to him. Ivonne

**Ivonne L. Couret**  
Public Affairs Officer  
Office of Public Affairs



(301) 415-8205  
[ivonne.couret@nrc.gov](mailto:ivonne.couret@nrc.gov)

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/>

NRC Employees can read interesting insight on the OPA Blog  
<http://portal.nrc.gov/OCM/opa/blog/default.aspx>

Please consider the environmental impact before printing this email.

AAA A/13

**From:** Hayden, Elizabeth  
**Sent:** Saturday, March 12, 2011 5:44 PM  
**To:** Couret, Ivonne  
**Subject:** RE: REPORTER QUESTION - FW: 23 US reactors are same design as Fukushima-1

Who is the reporter and what is his/her phone number?

Eliot says you don't need to come in tomorrow.

---

**From:** Couret, Ivonne  
**Sent:** Saturday, March 12, 2011 5:29 PM  
**To:** Hayden, Elizabeth  
**Cc:** Harrington, Holly; Brenner, Eliot  
**Subject:** RE: REPORTER QUESTION - FW: 23 US reactors are same design as Fukushima-1

Reporter has this question – do we have a response? I believe San Onofre has Salt Water Coolant design does OPS have a list? Please advise how to respond. Sent previously to Beth only sorry. Ivonne

Ivonne L. Couret  
Public Affairs Officer  
Office of Public Affairs




(301) 415-8205  
[ivonne.couret@nrc.gov](mailto:ivonne.couret@nrc.gov)

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/>

NRC Employees can read interesting insight on the OPA Blog  
<http://portal.nrc.gov/OCM/opa/blog/default.aspx>

 Please consider the environmental impact before printing this email.

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**From:** scott.disavino@thomsonreuters.com [mailto:[scott.disavino@thomsonreuters.com](mailto:scott.disavino@thomsonreuters.com)]  
**Sent:** Saturday, March 12, 2011 4:17 PM  
**To:** Couret, Ivonne  
**Subject:** Re: 23 US reactors are same design as Fukushima-1

Hi

Wondering if there are any examples of using sea water to cool a reactor in us

Or if u have ever heard of something like that

Also how would that work where would u put it in the vessel. Around the vessel

Thanks



Scott

---

**From:** Couret, Ivonne <Ivonne.Couret@nrc.gov>  
**To:** DiSavino, Scott P. (M Edit Ops)  
**Sent:** Sat Mar 12 13:11:53 2011  
**Subject:** RE: 23 US reactors are same design as Fukushima-1

Scott Disavino –  
Please send further email/questions to my email. Thanks, Ivonne

---

**From:** Burnell, Scott  
**Sent:** Saturday, March 12, 2011 1:09 PM  
**To:** 'scott.disavino@thomsonreuters.com'  
**Cc:** Couret, Ivonne  
**Subject:** Re: 23 US reactors are same design as Fukushima-1

Ivonne's CCd here -- no info on BWR 3 v 2, try Nuclear Energy Institute or GE. Really going off grid now.

Sent from an NRC Blackberry

Scott Burnell

(b)(6)

---

**From:** scott.disavino@thomsonreuters.com <scott.disavino@thomsonreuters.com>  
**To:** Burnell, Scott  
**Sent:** Sat Mar 12 12:53:43 2011  
**Subject:** RE: 23 US reactors are same design as Fukushima-1

One last question other than Ivonne's email

Do u know what model the fukushima 1 is – I'm hearing bwr 3 but can't confirm that with anyone I trust – Wikipedia is a start but not a trusted source

Scott

**Scott DiSavino**  
Correspondent  
Thomson Reuters

Phone: 1 646 223 6072

Mobile: (b)(6)

Email - scott.disavino@thomsonreuters.com  
Reuters (Instant) Messaging - scott.disavino.thomsonreuters.com@reuters.net

thomsonreuters.com

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**From:** Burnell, Scott [mailto:Scott.Burnell@nrc.gov]  
**Sent:** Saturday, March 12, 2011 12:39 PM  
**To:** DiSavino, Scott P. (M Edit Ops)

**Subject:** RE: 23 US reactors are same design as Fukushima-1

Scott;

I'm about to close down for the day, but here goes...

Appendix A in the Information Digest ( <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/appa.xls> ) clearly describes each U.S. reactor's design and containment type, so you can compare our list to NIRS. The newer Mark I reactors are certainly not carbon copies of Fukushima Daiichi 1. The NRC continues to find the existing U.S. fleet meets our stringent safety requirements.

Off the record (and bear with me) – don't get me started on the over-the-top hyperbole. I'd greatly appreciate seeing coverage that only discusses numbers without the scare quotes. It's really been a long day. Thanks.

Scott

---

**From:** scott.disavino@thomsonreuters.com [mailto:scott.disavino@thomsonreuters.com]

**Sent:** Saturday, March 12, 2011 12:13 PM

**To:** Burnell, Scott

**Subject:** FW: 23 US reactors are same design as Fukushima-1

Got this note – I'm interested in the list of similar reactors in the US – not as much on the NRC and other criticizing the design

But on that criticism – does the NRC have any comment –

Also – does this look like a good list for similar reactors – I notice they include some BWR 4's on the list so I may need to go over it a bit more

My understanding is the daiichi 1 reactor is a bwr 3 – does that match what u have seen,

Scott

**Scott DiSavino**

Correspondent

**Thomson Reuters**

Phone: 1 646 223 6072

Mobile: (b)(6)

Email - scott.disavino@thomsonreuters.com

Reuters (Instant) Messaging - scott.disavino.thomsonreuters.com@reuters.net

thomsonreuters.com

**McNamara, Nancy**

---

**From:** Allard, David [djallard@state.pa.us]  
**Sent:** Saturday, March 12, 2011 4:54 PM  
**To:** StateEOC, Pennsylvania; Krancer, Michael; Cannon, Glenn; Hines, John; Harris, Alisa; Reisinger, Kenneth; Janati, Rich; Maiers, Robert; Wagner, William; Leib, Kerry; Tamanini, Henry; Brinser, Alan; Severson, Timothy; Mertz, Roland; Shannon, Timothy J; Moyer, Brian; Finn, Maria; Repetz, John M; Gresh, Katherine  
**Cc:** McNamara, Nancy; Milligan, Patricia; Tifft, Doug  
**Subject:** RE: Japan Earthquake and nuclear pwr plants  
**Attachments:** Japan-Nucl-Pwr-Plant\_NRC-deploy\_PR\_3-12-2011.pdf

Folks,

FYI, as an update, the NRC just put out the attached Press Release. [It is also copied and pasted-in below for those on blackberries right now.] As an update on the KI request from NRC... I spoke to them earlier in the afternoon, they do not believe they'll need to borrow any from the Commonwealth.

Lastly, there are many sidebar emails and calls coming into me from staff and colleagues... all info [even 2nd hand] and insight is greatly appreciated. When they come out, DEP/BRP will be reviewing any and all of the official Japan, IAEA, NRC, NEI and others after-action / lessons learned reports.

At this point, it is safe to say we [here in the States] should not be directly impacted by any radiological releases from the unfolding events with the nuclear power plants in Japan. Though it is possible we may detect very low-levels if there is a major release of fission products. Nonetheless, we will continue to monitor the situation until the plants are in cold shut-down, as well as their recovery phase.

It goes without saying, but, all the citizens of Japan affected by this huge natural and [secondary] technological disaster are in our thoughts and prayers.

- Dave

\*\*\*\*\*

U.S. NUCLEAR REGULATORY COMMISSION  
Office of Public Affairs Telephone: 301/415-8200 Washington, D.C. 20555-0001  
E-mail: opa.resource@nrc.gov Site: www.nrc.gov  
Blog: http://public-blog.nrc-gateway.gov

March 12, 2011

No. 11-045

**NRC EXPERTS DEPLOY TO JAPAN AS PART OF U.S. GOVERNMENT RESPONSE**

Two officials from the U.S. Nuclear Regulatory Commission with expertise in boiling water nuclear reactors have deployed to Japan as part of a U.S. International Agency for International Development (USAID) team. USAID is the federal government agency primarily responsible for providing assistance to countries recovering from disaster.

"We have some of the most expert people in this field in the world working for the NRC and we stand ready to assist in any way possible," said Chairman Gregory Jaczko. The NRC has stood up its Maryland-based headquarters Operations Center since the beginning of the emergency in Japan, and is operating on a 24-hour basis.

The NRC will not provide information on the status of that country's nuclear power plants.

Check the NRC web site or blog for the latest information on NRC actions. Other sources of information include:

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

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

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

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

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

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

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

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

From: Allard, David

Sent: Saturday, March 12, 2011 1:31 PM

To: 'Doug.Tiftt@nrc.gov'; StateEOC, Pennsylvania

Cc: Krancer, Michael; Cannon, Glenn; Hines, John; Harris, Alisa; Reisinger, Kenneth; Janati, Rich; Maiers, Robert; Wagner, William; Leib, Kerry; Tamanini, Henry; Brinser, Alan; Sevison, Timothy; Mertz, Roland; Shannon, Timothy J; Moyer, Brian; Finn, Maria; Repetz, John M; Gresh, Katherine;

'Nancy.McNamara@nrc.gov'; 'Patricia.Milligan@nrc.gov'; Allard, David

Subject: Re: Japan Earthquake and nuclear pwr plants

Thnx Doug, great update.

EOC, pls add to log item on this issue.

Should we have any press calls, I'd suggest we note what we're doing, staying in touch with NRC, who are monitoring the situation. My previous email explained the low potential impact on US from any release of radioactivity. Lastly, we could mention we have air monitors thru out the state around our 5 PA nuclear pwr plant sites. We will watch those sample results closely in the coming weeks and months.

Dave Allard

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

From: Tiftt, Doug [mailto:[Doug.Tiftt@nrc.gov](mailto:Doug.Tiftt@nrc.gov)]

Sent: Saturday, March 12, 2011 12:44 PM

To: Wilds, Edward <[Edward.Wilds@ct.gov](mailto:Edward.Wilds@ct.gov)>; Fisher-Tyler Frieda (DHSS) <[Frieda.Fisher-Tyler@state.de.us](mailto:Frieda.Fisher-Tyler@state.de.us)>;

Janet.Chomiszak@state.de.us <[Janet.Chomiszak@state.de.us](mailto:Janet.Chomiszak@state.de.us)>; Tom Levering

<[TLevering@mde.state.md.us](mailto:TLevering@mde.state.md.us)>; Giarrusso, John (CDA) <[John.Giarrusso@state.ma.us](mailto:John.Giarrusso@state.ma.us)>; Doutt, Kathryn

<[Kathryn.Doutt@dos.nh.gov](mailto:Kathryn.Doutt@dos.nh.gov)>; Nawoj, Mike <[Mike.Nawoj@dos.nh.gov](mailto:Mike.Nawoj@dos.nh.gov)>; Paul Baldauf

<[Paul.Baldauf@dep.state.nj.us](mailto:Paul.Baldauf@dep.state.nj.us)>; Alyse L. Peterson <[alp@nyserda.org](mailto:alp@nyserda.org)>; Allard, David; Janati, Rich; Vanags,

Uldis <[Uldis.Vanags@state.vt.us](mailto:Uldis.Vanags@state.vt.us)>; Hofmann, Sarah <[Sarah.Hofmann@state.vt.us](mailto:Sarah.Hofmann@state.vt.us)>

Cc: McNamara, Nancy <[Nancy.McNamara@nrc.gov](mailto:Nancy.McNamara@nrc.gov)>

Subject: Japan Earthquake

All,

I wanted to pass along some information regarding the situation in Japan:

- \* The Nuclear Regulatory Commission has spoken with its counterpart agency in Japan, offering the assistance of U.S. technical experts. Should the Japanese want to make use of U.S. expertise, NRC staffers with extensive background in boiling water reactors are available to assist efforts in Japan.
- \* The NRC is coordinating its actions with other Federal agencies as part of the U.S. government response.
- \* The NRC is examining all available information as part of the effort to analyze the event and understand its implications both for Japan and the United States.
- \* The NRC has regulations in place that require licensees to design their plants to withstand the effects of tsunamis. (10CFR 50, Appendix A, Criterion 2, "Design bases for protection against natural phenomenon" requires licensees to design structures, systems, and components important to safety to withstand the effects of natural phenomenon, including tsunamis.)
- \* Nuclear power plants are built to withstand environmental hazards, including earthquakes. Even those plants that are located outside of areas with extensive seismic activity are designed for safety in the event of such a natural disaster.
- \* The NRC requires that safety-significant structures, systems, and components be designed to take into account the most severe natural phenomena historically reported for the site and surrounding area. The NRC then adds a margin for error to account for the historical data's limited accuracy. In other words, U.S. nuclear power plants are designed to be safe based on historical data from the area's maximum credible earthquake.  
<http://www.nrc.gov/reading-rm/doc-collections/fact-sheets/fs-seismic-issues.html>

The NRC has issued several press releases already:

<http://pbadupws.nrc.gov/docs/ML1107/ML110700600.pdf>

<http://nrc.gov/reading-rm/doc-collections/news/2011/11-043.pdf>

<http://nrc.gov/reading-rm/doc-collections/news/2011/11-044.pdf>

Press releases are posted on our website as they are released.

We are also posting updated information on our blog: <http://public-blog.nrc-gateway.gov/>

Please let me know if you have any questions.

-Doug

Doug Tift

Regional State Liaison Officer

Office: 610-337-6918

Cell: (b)(6)

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

From: Allard, David

Sent: Saturday, March 12, 2011 11:23 AM

To: StateEOC, Pennsylvania

Cc: Krancer, Michael; Cannon, Glenn; Hines, John; Harris, Alisa; Reisinger, Kenneth; Janati, Rich; Maiers, Robert; Wagner, William; Leib, Kerry; Severson, Timothy; Tamanini, Henry; Brinser, Alan; Shannon, Timothy J; Moyer, Brian; Finn, Maria; Repetz, John M; Gresh, Katherine; Allard, David

Subject: Nuclear Pwr Plants in Japan

Please open an EOC log item on this subject, noting:

DEP BRP has been monitoring the situation since yesterday.

Given our experience with TMI and Chernobyl, we don't expect any direct impact on USA.

We have been in contact with NRC on the situation. Yesterday NRC asked if PaDOH could loan KI back to NRC for Japan. PaDOH officials have ok'd that, but we have not had an official request.

The NRC and IAEA EOCs are monitoring the situation. I've asked NRC to put out a PR on the situation.

I emailed NRC last night, and spoke to them this morning. We have env surveillance air samplers at all nuclear pwr plants in PA, and similar set-ups are in place at all plants in the US. Thus, we can monitor with great sensitivity, any trace radioactivity that may drift west from Japan.

I have also contacted EPA. They have a real time network of real time direct gamma radiation and air samplers thru out the States. We have one in Philly and Pittsburgh. That RadNet system should also provide some assurance for the public.

I'm on the Radon booth at the Home Show, but plan to pop into work for a few minutes this afternoon to get an update on the situation.

Pls keep this log open until these plants in Japan are stable.

Thnx,

Dave Allard

\*\*\*\*\*

David J. Allard, CHP, Director  
PA Dept. of Environmental Protection  
Bureau of Radiation Protection  
P.O. Box 8469  
Harrisburg, PA 17105-8469

Tel: 717-787-2480  
Fax: 717-783-8965  
E-mail: [djallard@state.pa.us](mailto:djallard@state.pa.us)  
<http://www.dep.state.pa.us/brp/>

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**Dentel, Glenn**

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**From:** Hansell, Samuel  
**Sent:** Sunday, March 13, 2011 8:53 AM  
**To:** Dean, Bill; Lew, David; Roberts, Darrell; Wilson, Peter; Clifford, James; Weerakkody, Sunil; Miller, Chris; Lorson, Raymond; Collins, Daniel; Baker, Pamela; Walker, Tracy  
**Cc:** Sheehan, Neil; Screnci, Diane; Tift, Doug; McNamara, Nancy; Dentel, Glenn; Hansell, Samuel; (b)(6)  
**Subject:** RE: Summary of 11:30 PM Briefing on Japan event.  
**Attachments:** 2011 rev. 1 TOKYO ELECTRIC POWER COMPANY.docx

Everyone,

Fukushima Daiichi Units 1 and 3 have experienced core damage due to loss of normal core cooling; reactor pressure has been reduced and borated seawater is being pumped into the reactor vessel with fire water pumps in attempt to minimize the reactor core heatup. Latest information has stated that the reactor vessel and primary containment structures are still intact; there is intermittent venting of the primary containment (to the atmosphere) to maintain internal pressure within design limits.

Daiichi Unit 2's latest report noted that the high pressure Reactor Core Isolation Cooling (RCIC) system is injecting water into the reactor vessel; however vessel level is below normal levels and this reactor could be vulnerable to further degradation.

The US aircraft carrier Ronald Reagan is 100 miles off the coast of Japan and is being used by helicopters for supply delivery and rescue efforts. The radiation air monitors are detecting radiation releases from the nuclear plants; when asked the HQ's briefer could not provide the initial radiation levels until they're verified with backup readings. Also, the helicopters returning to the aircraft carrier were found to have low levels of contamination; again no values of the contamination levels at this time.

The White House plans to issue a press release "soon" that will stress the need for effective communication of the Japanese nuclear plants' status; the ongoing US support for the Japanese emergency response efforts; and the fact that the US plants are not at risk.

The NRC has prepared a press release and will release if the White House press release does not include sufficient details about the ongoing nuclear reactor recovery efforts.

NEI's Marv Patel is scheduled to be interviewed on the morning talk shows to give his perspective on the Japanese nuclear situation.

I have attached a more detailed description of the Fukushima reactor status data and radiation release data. This information is being updated each day on Tokyo Electric and Power Company's website. This information should be reliable but may not be all inclusive of the extent of condition for the affected nuclear units. I will also send this info from my Yahoo e-mail to ensure it is received on the NRC e-mail system.

Thanks,  
Sam H  
RDO

---

**From:** Dean, Bill  
**Sent:** Sunday, March 13, 2011 12:05 AM  
**To:** Lew, David; Roberts, Darrell; Wilson, Peter; Clifford, James; Weerakkody, Sunil; Miller, Chris; Lorson, Raymond; Collins, Daniel; Baker, Pamela; Walker, Tracy  
**Cc:** Sheehan, Neil; Screnci, Diane; Tift, Doug; McNamara, Nancy; Hansell, Samuel  
**Subject:** Re: Summary of 11:30 PM Briefing on Japan event.

Not much new to report wrt Fukushima Daiichi as info flow is still patchy. Unit 1 status is same as at 3:30 call. Unit 2 seems ok but may need to vent containment at some point due to slowly increasing pressure as no containment cooling.

- Unit 3 has had reports of possible core uncover since Pressure has dropped below high pressure injection setpoints and no low pressure cooling yet. But these are sketchy details at best.

There is a concurrent call at deputies level as different govt agencies are misconstruing the situation or getting conflicting info, so a need to get our govt aligned.

The german govt gave direction to its embassy to evacuate its citizens (with no basis it admitted) creating excitement with all the embassies including our own. In fact, Jim Trapp is en route to Japan to likely serve as nuclear expert to the embassy. Tony Ulises of RES is there now as part of a USAID team that we sent.

Talking points are being developed for RSLO use tomorrow for outreach to States. Also, Q and A associated with a US focus are currently with Chmn to be released tomorrow.

Chmn has encouraged white house to take a role in providing official govt spokesperson(s) so that the current ilk on networks like CNN, etc, who are tossing out a lot of disinformation, can be negated.

Next call is at 0730 tomorrow which Sam Hansell as RDO will cover.

Bill Dean

Regional Administrator

Region I, USNRC

Sent from NRC BlackBerry

---

**From:** Lew, David

**To:** Dean, Bill; Roberts, Darrell; Wilson, Peter; Clifford, James; Weerakkody, Sunil; Miller, Chris; Lorson, Raymond; Collins, Daniel; Baker, Pamela; Walker, Tracy

**Cc:** Dapas, Marc; Sheehan, Neil; Screnci, Diane; Tiff, Doug; McNamara, Nancy; Hansell, Samuel

**Sent:** Sat Mar 12 15:54:35 2011

**Subject:** Summary of 3:30 pm TA Briefing

Borchardt provided update

- Still operating on limited information.
- Deputies Meeting at the White House with significant focus on the nuclear event.
- Two NRC staff dispatched: one USAID and other on commercial flight
- NRC is minding its role and allow the White House to carry the messages
- NRC has for objectives
  1. Continue monitoring to the situation best that we can, given limited information.
  2. Outreach to IAEA and proposing IAEA as the point of contact for Japan.
  3. Further development of NRC questions and answers (one set is associated with what we know about Japan – will need to be very factual and not speculate; second set of questions and answers will focus will be on the domestic industry. Expect the public/media focus to turn toward domestic in the next day or so.
  4. Interaction with DHS and federal agencies, including plume plot, possible exposure models, and monitoring on the west coast.
- FEMA has stood down and operating under normal weekend staffing.

New plant updates

- Most attention is on Unit 1
- Unit 2 appears to be shut down safely
- Tsunami interrupted diesel fuel flow or diesel cooling flow which was above ground.
- For some time, the core was uncovered and some fuel damage occurred.
- Believed that the explosion was either a steam explosion or hydrogen explosion.
- Seawater is being used in two ways. Borated seawater to inject into the reactor vessel and seawater to fill basement to cool the torus.
- Not getting indications of a degrading situation.



**From:** Lew, David

**Sent:** Saturday, March 12, 2011 12:52 PM

**To:** Dean, Bill; Roberts, Darrell; Wilson, Peter; Clifford, James; Weerakkody, Sunil; Miller, Chris; Lorson, Raymond; Collins, Daniel; Baker, Pamela; Walker, Tracy

**Cc:** Dapas, Marc; Sheehan, Neil; Screnci, Diane; Tift, Doug; McNamara, Nancy

**Subject:** OEDO/OD/RA conference call

Noon today, the Executive Team held a conference call with the Office Directors and the Regional Administrators. Bill, Neil Sheehan and I participated in the call. (Bill/Neil, please add anything I missed or correct/clarify as needed). There will be a TA call at 3:30 pm.

- Limited information from our Japanese counterparts (need to be respectful of ongoing event response)
- Much information is second hand via IAEA, industry (via INPO/WANO), TEPCO website information
- NRC external communications will be via the HQs Liaison Team and OPA. Filter requests through the HOO.
- NRC remains in the monitoring mode.
- Chairman attended a meeting with White House. Marty Virgilio participated by VTC.
- Assistance offer to Japanese regulators, but do not currently need NRC support.
- US team deployed consisting of 60-70 people to assess the disaster (not limited to nuclear). NRC has supplied one team member who will be a technical consultant. A second staffed is trying to get on a flight to Japan to support the team and the US embassy.
- Parts of the industry mustering to offer industry support.
- GE is working with Exelon to run some simulator scenarios, Dresden unit most similar to the site.

#### Unconfirmed information about plants

- Eleven (11) reactor units in the area, but Fukushima Daiichi was hit the hardest. That site has six units. The concerns are currently focused on Units 1 and 2 (Unit 3 is in cold shutdown and the other three were in refueling).
- The Tsunami result is an extended loss of AC. Generators have been delivered to the site but no information that it is connected. Additional DC power has been to support operation of various valves and instruments.
- Fukushima Unit 1 explosion in the reactor building (metal siding taken off the of the reactor building).
- RCS and primary containment are both intact.
- Possible hydrogen detonation but no confirmation.
- Prior to this, venting of the primary containment which was successful in reducing pressure by half.
- Reactor water level was below top of active fuel
- Cs and Iodine detected outside facility indicating that core damage was likely
- Rad levels at the site boundary had been at 100 mrem/hr but now has decreased to 7 mrem per hour
- The licensee was filling containment with borated seawater
- Some workers injured at Unit 1 at the time of the video
- Unit 2 continuing to work through SBO, suppression pool at saturation temperature

Dave

## Press Releases

Press Release (Mar 13, 2011)

Impact to TEPCO's Facilities due to Miyagiken-Oki Earthquake (as of 1:00PM)

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Below is major impact to TEPCO's facilities due to the Miyagiken-Oki Earthquake that occurred yesterday at 2:46PM.

\*new items are underlined

[Nuclear Power Station]

Fukushima Daiichi Nuclear Power Station:

Units 1 to 3: shutdown due to earthquake

Units 4 to 6: outage due to regular inspection

\* The national government has instructed evacuation for those local residents within 20km radius of the site periphery.

\* The value of radioactive material (iodine, etc) is increasing according to the monitoring car at the site (outside).

\* Since the amount of radiation at the boundary of the site exceeds the limits, we decide at 4:17PM, Mar 12 and we have reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5PM, Mar 12. After that, the radiation dose at the monitoring post decreased once. Today, the measured value revamped and the radiation dose measured at site boundary exceeded the limiting value again. As such, at 8:56AM, today, it was determined that a specific incident stipulated in article 15, clause 1 occurred and at 09:10AM, today, notified accordingly.

\* In addition, a vertical earthquake hit the site and big explosion has happened near the Unit 1 and smoke breaks out around 3:36PM, Mar 12th.

\* Unit 1: We started injection of sea water into the reactor core at 8:20PM, Mar 12 and then boric acid subsequently.

\* Unit 2: Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, we are preparing to implement a measure to reduce the pressure of the reactor containment vessels under the instruction of the national government.

\* Unit 3: High Pressure Coolant Injection System automatically stopped. We endeavored to restart the Reactor Core Isolation Cooling System but failed. Also, we could not confirm the water inflow of Emergency Core Cooling System. As such, we decided at 5:10AM, Mar 12, and we reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5:58AM, Mar 13. In order to fully secure safety, we operated the vent valve to reduce the pressure of the reactor containment vessels (partial release of air containing radioactive materials) and completed the procedure at 8:41AM, Mar 13 (successfully completed at 09:20AM, Mar 13). **After that, we began injecting water containing boric acid that absorbs neutron into the reactor by the fire pump from 09:25AM, Mar 13.**

\* We continue endeavoring to secure the safety that all we can do and monitoring the periphery.

#### **Fukushima Daini Nuclear Power Station:**

Units 1 to 4: shutdown due to earthquake

\* The national government has instructed evacuation for those local residents within 10km radius of the periphery.

\* At present, we have decided to prepare implementing measures to reduce the pressure of the reactor containment vessel (partial discharge of air containing radioactive materials) in order to fully secure safety. These measures are considered to be implemented in Units 1, 2 and 3 and accordingly, we have reported and/or noticed the government agencies concerned.

\* Unit 3 has been stopped and being "nuclear reactor cooling hot stop" at 12:15PM.

\* The operator trapped in the crane operating console of the exhaust stack was transferred to the ground at 5:13PM and confirmed the death at 5:17PM.

[Blackout in TEPCO's Service Area]

Total of about 0.26 million households are out of power.

Tokyo: 0

Kanagawa Pref.: 0

Tochigi Pref.: 7,366

Chiba Pref.: 301

Saitama Pref: 0

Gunma Pref.: 0

Ibaraki Pref: 247,853

Yamanashi Pref: 0

Shizuoka Pref: 0 (east of Fuji River)

Because TEPCO's facilities have been seriously damaged, power shortage may occur. TEPCO appreciates customers' cooperation in reducing electricity usage by avoiding using unnecessary lighting and electrical equipment.

Please do NOT touch cut-off electric wires.

[■ back to page top](#)

## Press Releases

Press Release (Mar 13,2011)

Plant Status of Fukushima Daiichi Nuclear Power Station (as of 0pm March 13th)

---

**All 6 units of Fukushima Daiichi Nuclear Power Station have been shut down.**

### **Unit 1 (Shut down)**

- Reactor has been shut down. However, the unit is under inspection due to the explosive sound and white smoke that was confirmed after the big quake occurred at 3:36PM.
- We have been injecting sea water and boric acid which absorbs neutron into the reactor pressure vessel.

### **Unit 2 (Shut down)**

- Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, measures to lowering the pressure of reactor containment vessel has been taken, under the instruction of the national government.

### **Unit 3 (Shut down)**

- Reactor has been shut down. However, as High Pressure Core Injection System has been automatically shut down and water injection to the reactor was interrupted, following the instruction by the government and with fully securing safety, steps to lowering the pressure of reactor containment vessel has been taken. Spraying in order to lower pressure level within the reactor containment vessel has been cancelled.
- After that, safety relief valve has been opened manually, lowering the pressure level of the reactor, which was immediately followed by injection of sea water and boric acid which absorbs neutron, into the reactor pressure vessel.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

### **Casualty**

- 2 workers of cooperative firm were injured at the occurrence of the earthquake, and were transported to the hospital.
- 1 TEPCO employee who was not able to stand by his own with his hand holding left chest was transported to the hospital by an ambulance.
- 1 subcontract worker at important earthquake-proof building was unconscious and transported to the hospital by an ambulance.

- The radiation exposure of 1 TEPCO employee, who was working inside the reactor building, exceeded 100mSv and was transported to the hospital.
- 4 workers were injured and transported to the hospital after explosive sound and white smoke were confirmed around the Unit 1.
- Presence of 2 TEPCO employees at the site are not confirmed

#### **Others**

- We measured radioactive materials inside of the nuclear power station area (outdoor) by monitoring car and confirmed that radioactive materials level is higher than ordinary level. Also, the level at monitoring post is higher than ordinary level. We will continue to monitor in detail the possibility of radioactive material being discharged from exhaust stack or discharge canal. The national government has instructed evacuation for those local residents within 20km radius of the periphery because it's possible that radioactive materials are discharged.
- We will continue to take all measures to restore the security of the site and to monitor the environment of the site periphery.

[☐ back to page top](#)

## **Press Release (Mar 13,2011)**

### **Occurrence of a Specific Incident Stipulated in Article 15, Clause 1 of the Act on Special Measures Concerning Nuclear Emergency Preparedness (Extraordinary increase of radiation dose at site boundary)**

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At 2:48PM on March 11th, turbines and reactors of Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station Unit 1 (Boiling Water Reactor, rated output 460 Megawatts) and Units 2 and 3 (Boiling Water Reactor, Rated Output 784 Megawatts) that had been operating at rated power automatically shutdown due to the Miyagiken-oki Earthquake.

After the shut down, the values of radioactive materials (iodine, etc) measured by the monitoring car have been increasing. Increase in the measured value has also been recognized in one of the monitoring posts.

Furthermore, at 3:29PM, Mar 12, radiation dose measured at site boundary has exceeded the limiting value. Therefore, at 4:17PM, Mar 12, it was determined that a specific incident stipulated in article 15, clause 1 has occurred.

(as per the previous press release)

After that, the radiation dose at the monitoring post decreased once. Today, the measured value revamped and the radiation dose measured at site boundary exceeded the limiting value again. As such, at 8:56AM, today, it was determined that a specific incident stipulated in article 15, clause 1 occurred.

We will endeavor to secure the safety and alongside, continue monitoring the environment of the site periphery.

[BACK to page top](#)

## **Press Releases**

### **Press Release (Mar 13,2011)**

#### **Plant Status of Fukushima Daiichi Nuclear Power Station (as of 9am March 13th)**

---

**All 6 units of Fukushima Daiichi Nuclear Power Station have been shut down.**

**Unit 1(Shut down)**

- Reactor has been shut down. However, the unit is under inspection due to the explosive sound and white smoke that was confirmed after the big quake occurred at 3:36PM.
- We have been injecting sea water and boric acid which absorbs neutron into the reactor core.

**Unit 2(Shut down)**

- Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, we are preparing to implement a measure to reduce the pressure of the reactor containment vessels under the instruction of the national government.

**Unit 3(Shut down)**

- Reactor has been shut down. However, High Pressure Core Injection System has been automatically shut down and water injection to the reactor is currently interrupted. We are examining alternative way to inject water. Also, following the instruction by the government and with fully securing safety, steps to lowering the pressure of reactor containment vessel has been taken. Spraying in order to lower pressure level within the reactor containment vessel has been cancelled.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Unit 4 (shut down due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Unit 5 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Unit 6 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.



### **Casualty**

- 2 workers of cooperative firm were injured at the occurrence of the earthquake, and were transported to the hospital.
- 1 TEPCO employee who was not able to stand by his own with his hand holding left chest was transported to the hospital by an ambulance.
- 1 subcontract worker at important earthquake-proof building was unconscious and transported to the hospital by an ambulance.
- The radiation exposure of 1 TEPCO employee, who was working inside the reactor building, exceeded 100mSv and was transported to the hospital.
- 4 workers were injured and transported to the hospital after explosive sound and white smoke were confirmed around the Unit 1.
- Presence of 2 TEPCO employees at the site are not confirmed

### **Others**

- We measured radioactive materials inside of the nuclear power station area (outdoor) by monitoring car and confirmed that radioactive materials level is higher than ordinary level. Also, the level at monitoring post is higher than ordinary level. We will continue to monitor in detail the possibility of radioactive material being discharged from exhaust stack or discharge canal. The national government has instructed evacuation for those local residents within 20km radius of the periphery because it's possible that radioactive materials are discharged.
- We will continue to take all measures to restore the security of the site and to monitor the environment of the site periphery.

[☐ back to page top](#)

## **Press Releases**

### **Press Release (Mar 13,2011)**

#### **Occurrence of a Specific Incident Stipulated in Article 15, Clause 1 of the Act on Special Measures Concerning Nuclear Emergency Preparedness**

---

At 2:46PM on March 11th 2011, turbines and reactors of Fukushima Daiichi Nuclear Power Station Unit 1 (Boiling Water Reactor, rated output 460 Megawatts) and Units 2 and 3 (Boiling Water Reactor, Rated Output 784 Megawatts) that had been operating at rated power automatically shutdown due to the Tohoku-Chihou-Taiheiyou-Oki Earthquake.

In all 3 Units, one offsite power system out of two was lost and diesel generators were automatically activated.

At 3:41PM, diesel generators failed and as a result, all the AC power was lost in Unit 1, 2 and 3. Following this incident, at 3:42PM, it was determined that a specific incident stipulated in article 15, clause 1 has occurred, and level 1 emergency status was announced, together with the notification to Ministry of Economy, Technology and Industry, Governor of Fukushima prefecture, Mayors of Okuma town and Futaba town, and related institutions in accordance with the law.

(already announced)

Afterwards, in Unit 3, High Pressure Core Injection System has been automatically shut down. Re-activation of Reactor Core Isolation Cooling System was attempted but failed, and as we were unable to confirm the level of water injection to the reactor by the Emergency Core Cooling System, at 5:10 on March 13th, it was determined that a specific incident (Emergency Core Cooling System water injection inability) stipulated in article 15, clause 1 has occurred.

## Press Releases

Press Release (Mar 13, 2011)

Impact to TEPCO's Facilities due to Miyagiken-Oki Earthquake (as of 8AM)

Below is major impact to TEPCO's facilities due to the Miyagiken-Oki Earthquake that occurred yesterday at 2:46PM.

\*new items are underlined

[Nuclear Power Station]

Fukushima Daiichi Nuclear Power Station:

Units 1 to 3: shutdown due to earthquake

Units 4 to 6: outage due to regular inspection

- \* The national government has instructed evacuation for those local residents within 20km radius of the site periphery.
- \* The value of radioactive material (iodine, etc) is increasing according to the monitoring car at the site (outside of the site). One of the monitoring posts is also indicating higher than normal level.
- \* Since the amount of radiation at the boundary of the site exceeds the limits, we decide at 4:17PM, Mar 12 and we have reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5PM, Mar 12.
- \* In addition, a vertical earthquake hit the site and big explosion has happened near the Unit 1 and smoke breaks out around 3:36PM, Mar 12th.
- \* We started injection of sea water into the reactor core of Unit 1 at 8:20PM, Mar 12 and then boric acid subsequently.
- \* High Pressure Coolant Injection System of Unit 3 automatically stopped.  
We endeavored to restart the Reactor Core Isolation Cooling System but failed. Also, we could not confirm the water inflow of Emergency Core

Cooling System. As such, we decided at 5.10AM, Mar 12, and we reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5:58AM, Mar 13. In order to fully secure safety, we operated the vent valve to reduce the pressure of the reactor containment vessels (partial release of air containing radioactive materials) and completed the procedure at 8:41AM, Mar 13,

- \* We continue endeavoring to secure the safety that all we can do and monitoring the periphery.

Fukushima Daini Nuclear Power Station:

Units 1 to 4: shutdown due to earthquake

- \* The national government has instructed evacuation for those local residents within 10km radius of the periphery.
- \* At present, we have decided to prepare implementing measures to reduce the pressure of the reactor containment vessel (partial discharge of air containing radioactive materials) in order to fully secure safety. These measures are considered to be implemented in Units 1, 2 and 3 and accordingly, we have reported and/or noticed the government agencies concerned.
- \* Unit 3 has been stopped and being "nuclear reactor cooling hot stop" at 12:15PM.
- \* The operator trapped in the crane operating console of the exhaust stack was transferred to the ground at 5:13PM and confirmed the death at 5:17PM.

Kashiwazaki Kariwa Nuclear Power Station:

Units 1, 5, 6, 7: normal operation

Units 2 to 4: outage due to regular inspection

[Thermal Power Station]

Hirono Thermal Power Station Units 2 and 4: shutdown due to earthquake

Hitachinaka Thermal Power Station Unit 1: shutdown due to earthquake

Kashima Thermal Power Station Units 2, 3, 5, 6: shutdown due to earthquake

Ohi Thermal Power Station Units 2, 3: shutdown due to earthquake

Higashi-Ogishima Thermal Power Station Unit 1: shutdown due to earthquake

[Hydro Power Station]

- \* All the stations have been restored.

[Transmission System, etc.]

4 substations shown below have been shutdown:

- Naka Substation
- Shin Motegi Substation
- Joban Substation
- Ibaraki Substation
- Nishi Mito Substation

[Blackout in TEPCO's Service Area]

Total of about 0.31 million households are out of power.

Tokyo: 0

Kanagawa Pref.: 0

Tochigi Pref.: 7,221

Chiba Pref.: 301

Saitama Pref.: 0

Gunma Pref.: 0

Ibaraki Pref.: 298,977

Yamanashi Pref: 0  
Shizuoka Pref: 0 (east of Fuji River)

[Supply and Demand Status within TEPCO's Service Area to Secure Stable Power Supply]

Backup supply from Shinshinano Conversion Station: 600MW

Backup supply from Sakuma Conversion Station: 300MW

Backup supply from Higashi Shimizu Conversion Station: 100MW

Because TEPCO's facilities have been seriously damaged, power shortage may occur. TEPCO appreciates customers' cooperation in reducing electricity usage by avoiding using unnecessary lighting and electrical equipment.

We are taking all measures to restore power, however, we expect extremely difficult situation in power supply for tomorrow as well.  
We kindly ask our customers to cooperate with us in reducing usage of power.

Please do NOT touch cut-off electric wires.

[☐ back to page top](#)

[☐ back to page top](#)

**Hansell, Samuel**

---

**From:** Dean, Bill  
**Sent:** Sunday, March 13, 2011 3:28 PM  
**To:** Hansell, Samuel  
**Subject:** Re: 0630 Japan event status update

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

---

**From:** Hansell, Samuel  
**To:** Dean, Bill  
**Sent:** Sun Mar 13 15:21:17 2011  
**Subject:** RE: 0630 Japan event status update

Bill,

I'll call in at 3:30p and provide a summary for everyone.

Thanks,  
Sam H

---

**From:** Dean, Bill  
**Sent:** Sunday, March 13, 2011 2:38 PM  
**To:** Hansell, Samuel; Lew, David; Screnci, Diane; Sheehan, Neil; Tifft, Doug; McNamara, Nancy; Roberts, Darrell; Wilson, Peter; Lorson, Raymond  
**Subject:** Re: 0630 Japan event status update

Thanks Sam. I will call in but perhaps you can listen in too and provide the same quality summary you did this morning.  
Thanks.  
Bill Dean  
Regional Administrator  
Region I, USNRC  
Sent from NRC BlackBerry

---

**From:** Hansell, Samuel  
**To:** Dean, Bill; Lew, David; Screnci, Diane; Sheehan, Neil; Tifft, Doug; McNamara, Nancy; Roberts, Darrell; Wilson, Peter; Lorson, Raymond  
**Sent:** Sun Mar 13 14:20:46 2011  
**Subject:** RE: 0630 Japan event status update

Bill,

The next update call is scheduled for 3:30p today.

Thanks,  
Sam

---

**From:** Dean, Bill  
**Sent:** Sunday, March 13, 2011 12:19 PM

**To:** Hansell, Samuel; Lew, David; Screnci, Diane; Sheehan, Neil; Tifft, Doug; McNamara, Nancy; Roberts, Darrell; Wilson, Peter; Lorson, Raymond  
**Subject:** Fw: 0630 Japan event status update

Do any of you receive this already? If not I will forward if you want.  
Bill Dean  
Regional Administrator  
Region I, USNRC  
Sent from NRC BlackBerry

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**From:** LIA07 Hoc

**To:** Al Coons <albert.coons@dhs.gov>; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King <William.King@dhs.gov>; Bill King 2 (b)(6); Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Elmo; Conrad Burnside <conrad.burnside@dhs.gov>; D Feighert <dan.feighert@dhs.gov>; D Hammons <darrell.hammons@dhs.gov>; Dean, Bill; Decker, David; DIA (b)(6); DIA2 (b)(6); Dorman, Dan; DOT <cmc-01@dot.gov>; Droggitis, Spiros; DTRA (b)(6); Dudek (b)(6); EOP (b)(6); EPA <veal.lee@epa.gov>; EPA2 <poppell.sam@epa.gov>; Franovich, Mike; Haney, Catherine; Harrington, Holly; Harry Sherwood <harry.sherwood@dhs.gov>; HHS <hhs.soc@hhs.gov>; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L <jan.hlavy-laposa@dhs.gov>; Jaczko, Gregory; Jim Kish <james.kish@dhs.gov>; Johanna Berkey <Johanna.Berkey@dhs.gov>; Johnson, Michael; Kahler, Robert; L Hammond <lisa.hammond@dhs.gov>; Leeds, Eric; Logaras, Haral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston <michelle.ralston@dhs.gov>; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun <Nan.Calhoun@dhs.gov>; Navy (b)(6); Nieh, Ho; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons <peter.lyons@hq.doe.gov>; R McCabe <ron.mccabe@dhs.gov>; R Thomson <rebecca.thomson@dhs.gov>; S Horwitz <steve.horwitz@dhs.gov>; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle <seamus.o'boyle@dhs.gov>; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman <steve.colman@dhs.gov>; Thomas Zerr (b)(6); Tifft, Doug; Timothy Greten <timothy.greten@dhs.gov>; Trapp, James; Trojanowski, Robert; Vanessa Quinn <vanessa.quinn@dhs.gov>; W Webb <William.Webb@dhs.gov>; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena  
**Sent:** Sun Mar 13 06:30:40 2011  
**Subject:** 0630 Japan event status update

**From:** Trapp, James  
**To:** McGinty, Tim  
**Subject:** FW: Pumper Truck Status  
**Date:** Monday, March 14, 2011 5:49:51 PM

---

FYI assests delivered to Fukushima - waiting on rest of the material for TEPCO request.

From: Duong, Tamanh Q LCDR USN USFJ J4 (b)(6) On Behalf Of USFJ-CAT-J4  
(b)(6)  
Sent: Monday, March 14, 2011 5:38 PM  
To: Trapp, James  
Subject: FW: Pumper Truck Status

Jim - FYSA on the fire truck. Sent one last night, the second one is on its way - ETA 1030 local time. See email below for more information.

Thanks!

V/R

Tamanh

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Tamanh Q. Duong, P.E., MBA  
LCDR, U.S. Navy Civil Engineer Corps  
USFJ Joint Engineer Staff Officer  
DSN: (315) 225-4712, FAX: x6743  
Commercial (CONUS) 011-81-3117-55-4712  
Commercial (JAPAN) 03117-55-4712  
NIPR: tamanh (b)(6)  
SIPR: tamanh (b)(6)

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

From: Harbor, Tim W Lt.Col USAF USFJ J43  
Sent: Tuesday, March 15, 2011 5:22 AM  
To: McDaniel, Everett K COL USA USFJ J4  
Cc: USFJ-CAT-J4; USFJ-JLOC-J43  
Subject: RE: Pumper Truck Status

Sir,

Update--At 0430, the GOJ called and said we could press with the Negishi fire truck--coordinated with Yokosuka Fire Chief and the fire truck with police escort is enroute to Fukushima at this time. ETA due to traffic is around 1030hrs.

Respectfully,  
Tim

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

From: Harbor, Tim W Lt Col USAF USFJ J43  
Sent: Tuesday, March 15, 2011 3:12 AM  
To: McDaniel, Everett K COL USA USFJ J4  
Cc: Wilken, Curtis L LtCol USAF USFJ J4; Williams, Joseph V LTC USA USFJ J4  
Subject: Pumper Truck Status

AAAA/17

Sir,  
Current fire truck status:

1. Yokota: One P-22 pump truck (750 gallon per minute capability/500 gallon capacity) with all required hoses and driver/trainer left Yokota AB at 1240L with a police escort and an 0340 ETA. Have asked for a status update when they arrive at the rally point. They will meet up with Lt Col Yato (JSDF contact) and the Tokyo Power personnel to do training on truck operation. Rally point is Funabikihara (about 1 hour away from Fukushima Plant). After training at the rally point, our two personnel will be returning to Yokota AB via GOV that followed them up.

2. Negishi (Yokohama): One P-22 pump truck (same capabilities) and driver/trainer is approved/standing by at Negishi as of 0220. MOFA POC (Mr. Kido, working with Mr. Nagano-(b)(6)) called me at 0230 and asked that we stand by as Tokyo Power is not yet ready to accept another truck at this time. They will call the J4 CAT again and advise when they are ready to receive.

Based on the current request from MOFA to standby, am not pursuing further trucks at this time, but will provide a list of pumper truck capabilities by component to the J5 as soon as I have a complete list (currently awaiting CNFJ/MARFORJ inputs)--shooting for 0600.

Have the components looking into other types of pumps as well--no update at this time, but continuing to look. Will advise as I get new information.

Respectfully,  
Tim

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

From: McDaniel, Everett K COL USA USFJ J4  
Sent: Monday, March 14, 2011 11:53 PM  
To: USFJ-CAT-J4; Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ J43  
Subject: Trucks

Truck leave Yokosuka yet?

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

From: Duong, Tamanh Q LCDR USN USFJ J4 On Behalf Of USFJ-CAT-J4  
Sent: Monday, March 14, 2011 11:50 PM  
To: McDaniel, Everett K COL USA USFJ J4; Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ J43; USFJ-CAT-J4  
Subject: RE: Truck leave Yokota yet?



Sir,

Fire truck is at the front gate. Police escort should be there within  
10  
mins.  
Will advise when it departs.

Thanks!

J4 CAT

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

From: McDaniel, Everett K COL USA USFJ J4

Sent: Monday, March 14, 2011 11:48 PM

To: Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ  
J43;

Duong, Tamanh Q LCDR USN USFJ J4; USFJ-CAT-J4

Subject: Truck leave Yokota yet?

Everett K. McDaniel

Colonel, US Army

Director, Logistics and Installations

USFJ

DSN: (325) 225-4713/4705

Commercial from the US: 011-81-31175-54713

DSN Fax: 225-4709

NIPR: (b)(6)

SIPR: (b)(6)

Ani, Suzanne

---

**From:** DC NAYGN (b)(6)  
**Sent:** Monday, March 14, 2011 7:59 AM  
**To:** (b)(6)  
**Subject:** Information on the Japanese earthquake and reactors in that region

To: DC NA-YGN Members

Courtesy of Women in Nuclear

A dedicated page on NEI's website provides current information on the status of Japan's nuclear plants in the wake of the country's earthquake. Included are links to information from the Japan Industry Forum (JAIF), Japan's Nuclear and Industrial Safety Agency (NISA), Tokyo Electric Power Company and Tokohu Electric Power Company. Also provided on the web page is a link to NEI's fact sheet, "Nuclear Plants Designed and Constructed to Withstand Earthquakes".

NEI will provide periodic updates on the current status of events in Japan and on tsunami preparations for West Coast nuclear facilities.

AAAA/18

**Rudland, David**

---

**From:** Rudland, David  
**Sent:** Monday, March 14, 2011 9:39 AM  
**To:** 'Gery Wilkowski'  
**Subject:** RE: Japanese Earthquake and Tsunami

Gery

I also tied to contact Kunio, but no response

I did get a hold of Naoto Hagiwara and Shinobu Kawaguchi, and both are fine. They have to ride their bikes to work each day, but their families are fine!

Regards,  
Dave

---

**From:** Gery Wilkowski [mailto:gwilkows@emc-sq.com]  
**Sent:** Monday, March 14, 2011 9:32 AM  
**To:** Griesbach, Timothy; Doug.Scarth@kinectrics.com  
**Cc:** guy.deboo@exeloncorp.com; rcipolla@aptecheng.com; bamforwh@westinghouse.com; Rudland, David; Mayfield, Michael; Keith Wichman; Bud Brust; Do Jun Shim  
**Subject:** RE: Japanese Earthquake and Tsunami

Tim, Doug, Guy, Russ, and Warren;

Below is an e-mail reply from Katsu Miyazaki's from Hitachi-shi (Hitachi City). He and his family are safe. Kunio Hasegawa also lives in Hitachi-shi and I have not heard from him yet. Kunio has to ride the train from (b)(6) to Tokyo and back 4 days a week. There is a good possibility that Kunio was in Tokyo at the time the earthquake/Tsunami hit, and he would have a hard time (b)(6)

If I hear anything more I'll let you. Doug, once we know it might be good to send an e-mail of Kunio's and Katsu's status to the WGPFE members as well as Warren, Russ, Guy, etc for them to distribute to their groups as they see fit.

Best regards,

Gery

\*\*\*\*\*

Dr. Gery M. Wilkowski, P.E.  
President  
Engineering Mechanics Corporation of Columbus  
3518 Riverside Drive -- Suite 202  
Columbus, OH 43221  
Phone/Fax (614) 459-3200/6800  
Cell phone # (b)(6)  
web-page: [www.emc-sq.com](http://www.emc-sq.com)  
E-mail address: [gwilkowski@emc-sq.com](mailto:gwilkowski@emc-sq.com)

---

Dear Gery, Bud, DJ, Prabhat, Keith and the others at Emc2,

Thank you for sending kind e-mail.

I and my families are OK. Although electricity service is back, water and gas services are out in our (b)(6)

Today, I walked to my office and confirmed that inside of our office was messed up. I had an order from my boss that we should stay home until this weekend. This e-mail could be sent from my home.

From next week, I should do the best to return our office to its original state.

I also hope that Fukushima-daiichi NPS will not meet severe conditions.

Again, thank you for your care for us.

I look forward to seeing you and talking this status with laughing in near future.

Best regards,

Katsumasa

---

Katsumasa Miyazaki

Hitachi Research Laboratory, Hitachi, Ltd.

Phone: +81-294-55-7799

FAX: +81-294-55-9969

E-mail: katsumasa.miyazaki.xs@hitachi.com

---

**From:** Griesbach, Timothy [mailto:Tgriesbach@Structint.com]

**Sent:** Monday, March 14, 2011 12:45 AM

**To:** Gery Wilkowski

**Subject:** FW: Japanese Earthquake and Tsunami

Gery,

There is no word from Kunio. Do you know where he lives?

Tim

*Tim Griesbach*

Senior Associate

**Structural Integrity Associates, Inc.**

*Experts in the prevention and control of structural and mechanical failures*

5215 Hellyer Avenue, Suite 210

San Jose, CA 95138

Phone: (408) 833-7350

Cell: (b)(6)

Fax: (408) 978-8964

email: [tgriesbach@structint.com](mailto:tgriesbach@structint.com)

---

**From:** Yinsheng Li [mailto:li-yinsheng@jnes.go.jp]

**Sent:** Sunday, March 13, 2011 7:46 PM

**To:** Cofie, Nat; 長谷川 邦夫

**Cc:** McGill, Bob; Miessi, Angah; Griesbach, Timothy

**Subject:** Re: Our Sympathies and Regards

Dear Nat:

Thank you very much for your mail.

I and my family are all right. I have made several phone calls to Hasegawa-san, he stayed at his home when the earthquake occurred. I still can not link with him so far. I hope he and his family are also all right.

Best Regards

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

**From:** Cofie, Nat  
**To:** 長谷川 邦夫 ; Li Yinsheng  
**Cc:** McGill, Bob ; Miessi, Angah ; Griesbach, Timothy  
**Sent:** Monday, March 14, 2011 5:06 AM  
**Subject:** Our Sympathies and Regards

Kunio and Yinsheng,

We are very very sad about what is going on in Japan right now as a result of the earthquake. We pray and hope that your families are safe and that life will get back to normal in Japan very soon. If there is anything we at Structural Integrity Associates can do to help, please do not hesitate to let us know  
Best Regards,

Nat Cofie  
Vice President/Senior Associate  
**Structural Integrity Associates, Inc.**  
*Experts in the prevention and control of structural and mechanical failures*  
5215 Hellyer Avenue, Suite 210  
San Jose, CA 95138  
Phone: 408-978-8200  
Fax: 408-978-8964  
Cell: (b)(6)  
E-mail: [ncofie@structint.com](mailto:ncofie@structint.com)  
Web Site: [www.structint.com](http://www.structint.com)

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**From:** Jones, Cynthia  
**To:** HOO Hoc  
**Cc:** Temple, Jeffrey  
**Subject:** NISA website link for NRC Ops center & Liaison Team  
**Date:** Monday, March 14, 2011 9:50:36 AM

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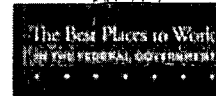
IAEA just sent out to the all INES National Officers the following website for the Japan regulator for updates and press releases issued:

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

Cynthia G. Jones, Ph.D.,  
Sr. Technical Advisor for Nuclear Security  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Security & Incident Response  
Mail Stop T4-D22A, Washington, D.C. 20555  
[cynthia.jones@nrc.gov](mailto:cynthia.jones@nrc.gov)  
[cgi@nrc.gov](mailto:cgi@nrc.gov)

Work: 301-415-0298

Blackberry: (b)(6)



AAAA/20

## Stutzke, Martin

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**From:** Stutzke, Martin  
**Sent:** Monday, March 14, 2011 4:22 PM  
**To:** Ake, Jon  
**Subject:** FW: Request for data from Chmn/EDO Offices

**Importance:** High

I can't find your spreadsheet that showed the AEF associated with the SSE for each plant based on the 2008 USGS seismic hazard info. It would be good to include the box-and-whisker plot you generated in our package to the Chairman. I'll also provide box-and-whisker plots for SCDF using the USGS seismic hazard info.

Marty

---

**From:** Thomas, Eric  
**Sent:** Monday, March 14, 2011 4:12 PM  
**To:** Kammerer, Annie; Stutzke, Martin  
**Cc:** Hiland, Patrick  
**Subject:** Request for data from Chmn/EDO Offices

Annie or Marty,

As you probably know, the Chairman's office is gathering information to discuss the Japan Earthquake situation at a meeting this Wednesday. We received a request through the EDO's Office to provide some information that the Chairman remembers seeing at a recent briefing. Forgive the partial information, we are working on getting clarification.

They are looking for:

1. Graphs related to Safe S/D during an Earthquake
2. Information (graphical perhaps) on BWR containment and release pathways.

If you have briefed either of these recently and the topics ring a bell, please let me and Pat Hiland know.

Thanks, Eric

*Eric Thomas*

U.S. Nuclear Regulatory Commission

NRR/DIRS/IOEB

OWFN-7E24

[eric.thomas@nrc.gov](mailto:eric.thomas@nrc.gov)

301-415-6772 (office)

(b)(6) (mobile)

**Freeman, Eric**

---

**From:** Eric Freeman (b)(6)  
**Sent:** Monday, March 14, 2011 7:46 AM  
**To:** Freeman, Eric  
**Subject:** Fwd: Update on Japan Situation  
**Attachments:** ANS Japan Backgrounder.pdf

----- Forwarded message -----

**From:** Joe Colvin <[president@ans.org](mailto:president@ans.org)>  
**Date:** Sat, Mar 12, 2011 at 7:24 PM  
**Subject:** Update on Japan Situation  
**To:** "Mr. Eric E. Freeman" (b)(6)

Dear ANS Members:

I'm sure you are aware of the rapidly developing situation in Japan. The ANS is working on multiple fronts to collect credible information on the incident, and distribute that information through mainstream and social media outlets.

We have communicated with our counterparts at the Atomic Energy Society of Japan to offer any technical or other assistance which may be of help.

We have set up a special page on the ANS blog (<http://ansnuclearcafe.org>) to aggregate media reports and provide additional information when we consider it to be credible.

We are also working to organize television appearances and other media availabilities for our members so that some of the misinformation that has been presented by anti-nuclear groups can be rebutted with facts. Our goal is not necessarily to be the first on the air, but to be the most credible.

Attached you will find some talking points, along with our current analysis of the sequence of events at Fukushima I-1. I encourage you to talk to your social networks to ensure that people have the right facts and the proper perspective on this incident.

Let me know what other actions our Society should be taking during this nuclear incident.

My thoughts and prayers go out to the people of Japan.

Respectfully,

Joe Colvin

AAAA/22



**Freeman, Eric**

---

**From:** Eric Freeman (b)(6)  
**Sent:** Monday, March 14, 2011 7:46 AM  
**To:** Freeman, Eric  
**Subject:** Fwd: Talking Points on Implications of Fukushima Accident to U.S. Nuclear Plants  
**Attachments:** ANS Talking Points - 2011-03-13 R1\_2.pdf

----- Forwarded message -----

**From:** Joe Colvin <[president@ans.org](mailto:president@ans.org)>  
**Date:** Mon, Mar 14, 2011 at 12:23 AM  
**Subject:** Talking Points on Implications of Fukushima Accident to U.S. Nuclear Plants  
**To:** "Mr. Eric E. Freeman" (b)(6)

Dear ANS Members:

Over the last two days, the ANS Crisis Communications team has been very proactive and has handled a multitude of media and press calls. ANS spokespersons have participated in national television, radio and press interviews providing the views of the nuclear science and technology experts within the Society. We are particularly grateful to Dr. Dale Klein who has given tremendous support to the Society and the public in response to the events at Fukushima.

We have begun fielding media inquiries about the implications of the problems at Fukushima on the US program. We have prepared the attached talking points to assist responders to this line of questions. The talking points are consistent with the talking points prepared by the Nuclear Energy Institute (NEI) on the same subject.

Thank you all for your strong support!

Joe

AAAA/23

## **Barkley, Richard**

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**From:** Barkley, Richard  
**Sent:** Monday, March 14, 2011 4:09 PM  
**To:** Wilson, Peter  
**Subject:** These are the Only Rad Numbers I Have Seen so far - They are Off NEI's Website

### **UPDATE AS OF 12:30 P.M. EST, SATURDAY, MARCH 12:**

The incident at Fukushima Daiichi has received a level 4 rating on the International Atomic Energy Agency's (IAEA) International Nuclear and Radiological Event Scale (INES), lower than both the 1986 Chernobyl disaster (rated 7 on the 7-point scale) and the 1979 Three Mile Island accident (rated 5).

Japanese authorities did not give radiation measurements in their INES report to the IAEA, but plant operator Tokyo Electric Power Co., reported that radiation levels next to the Unit 1 machine building (??reactor building??) had increased from 0.007 rem per hour to 0.67 rem per hour.

TEPCO confirmed it has successfully vented the containment of Unit 1 and was preparing to vent units 2 and 3. Venting reduces pressure in the containment. Boric acid and sea water are being used to cool the plant's Unit 1 reactor.

A government official attributed an explosion earlier today to accumulated hydrogen combined with oxygen in the space between the containment and the outer structure. The primary containment was not damaged, he said.

### **UPDATE AS OF 9:30 A.M. EST, SATURDAY, MARCH 12:**

The Tokyo Electric Power Company says it has successfully vented the containment of unit 1 at the Fukushima-Daiichi nuclear power plant in northern Japan, according to several industry sources.

Japan's chief cabinet secretary Yukio Edano, told a news conference that there was an explosion at Fukushima-Daiichi at 15:36 local time, but he said it has not affected the reactor's primary system or its containment, the news service NucNet reported this morning.

Edano said there was hydrogen explosion in the space between the concrete containment and the reactor's primary system, but the explosion did not damage the containment function or the reactor system, the report said (see NEI's graphic here). A portion of the fuel in the reactor was uncovered and TEPCO is using borated seawater to cover the fuel. Radiation measurements at the site boundary of Fukushima Daiichi were measured at 11 millirem per hour, but were reduced to 7 millirem per hour a few hours after the explosion.

Richard S. Barkley, PE  
Nuclear & Environmental Engineer  
(610) 337-5065 Work  
(b)(6) Cell

AAA/24

**Freeman, Eric**

---

**From:** Freeman, Eric  
**Sent:** Monday, March 14, 2011 11:43 AM  
**To:** 'Lockwood, Dunbar'; Grice, Thomas  
**Subject:** RE: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

We sent over two reactor experts and apparently our emergency ops center has been buzzing for the last couple of days.

**From:** Lockwood, Dunbar [mailto:Dunbar.Lockwood@nnsa.doe.gov]  
**Sent:** Monday, March 14, 2011 11:41 AM  
**To:** Grice, Thomas  
**Cc:** Freeman, Eric  
**Subject:** RE: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

What's the NRC doing to help Japan?

**From:** Grice, Thomas [mailto:Thomas.Grice@nrc.gov]  
**Sent:** Monday, March 14, 2011 11:00 AM  
**To:** Lockwood, Dunbar  
**Cc:** Freeman, Eric  
**Subject:** RE: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

Thanks for the info, but ESARDA is the same week as the national emergency exercise. I would be shocked in NRC sends someone.  
Then again, Eric does have a knack for foreign travel. One never really knows.

**From:** Lockwood, Dunbar [mailto:Dunbar.Lockwood@nnsa.doe.gov]  
**Sent:** Monday, March 14, 2011 10:11 AM  
**To:** Garner, James R.; 'Whitaker, J. Michael'; bboyer@lanl.gov  
**Cc:** Freeman, Eric; Grice, Thomas; 'Demuth, Scott F'; Murphy, John (CONTR)  
**Subject:** FW: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

FYI

**From:** Friend, Peter [mailto:Peter.Friend@urencol.com]  
**Sent:** Monday, March 14, 2011 10:08 AM  
**To:** Lockwood, Dunbar  
**Subject:** RE: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

Dunbar,

I expect to go to ESARDA. Not sure though about INMM.

Regards,

Peter Friend  
Head of Security & Safeguards  
URENCO Limited  
18 Oxford Road, Marlow, Bucks  
SL7 2NL, United Kingdom

Tel: +44 151 473 4165  
Fax: +44 151 473 4371  
Mob: +(b)(6)  
E-mail: [peter.friend@urencol.com](mailto:peter.friend@urencol.com)  
Web: [www.urencol.com](http://www.urencol.com)

---

**From:** Lockwood, Dunbar [<mailto:Dunbar.Lockwood@nnsa.doe.gov>]  
**Sent:** 14 March 2011 14:07  
**To:** Friend, Peter  
**Subject:** RE: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

Peter,

Thanks very much for the quick response. We can certainly make those changes.

Dunbar

P.S. Do you plan to attend the ESARDA workshop in Budapest in May or the INMM Annual Conference in California in July?

**From:** Friend, Peter [<mailto:Peter.Friend@urencol.com>]  
**Sent:** Monday, March 14, 2011 10:04 AM  
**To:** Lockwood, Dunbar  
**Subject:** RE: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

Dunbar,

That is a very good summary of my presentation. I do suggest two small changes to the last sentence of the first paragraph:

- "cascade halls should be physically smaller to shorten inspection routes" does not properly capture my point. What I meant was that it is preferable if cascade halls were to include little other than UF6 equipment, which is subject to IAEA safeguards verification, and that this would then result in smaller cascade halls. The size, in itself, is not important though. As I said in my presentation: in the case of URENCO plants, we nowadays have much less equipment in cascade halls than we used to, and that is convenient for safeguards inspection. Incidentally, the word "should" is too strong. Also, the word "smaller" begs the question "smaller than what?" How about: "it is preferable that cascade halls include little other than UF6 equipment to shorten inspection routes".
- "valve/flange combinations in cascades should be eliminated". How about something along the lines of "it is preferable that valve/flange combinations in cascades are kept to a minimum or even eliminated." After all, there are various technologies in the world for centrifuge enrichment cascades, and I guess that some of them require valve/flange combinations. It would be futile to try to outlaw such designs, but IAEA need to tailor the safeguards inspection approach accordingly.

Regards,

Peter Friend  
Head of Security & Safeguards  
URENCO Limited

18 Oxford Road, Marlow, Bucks  
SL7 2NL, United Kingdom

Tel: +44 151 473 4165

Fax: +44 151 473 4371

Mob: (b)(6)

E-mail: [peter.friend@urenco.com](mailto:peter.friend@urenco.com)

Web: [www.urenco.com](http://www.urenco.com)

---

**From:** Lockwood, Dunbar [mailto:Dunbar.Lockwood@nnsa.doe.gov]

**Sent:** 14 March 2011 13:13

**To:** Friend, Peter

**Subject:** RE: NGS3 Safeguards by Design: Draft Summary of Plenary Presentation

Peter,

Below is a brief summary of your plenary presentation at the December NGS 3 meeting in Washington. Please let me know if you any comments or edits by COB on Friday, March 18.

Thanks,

Dunbar

#### **4.1 Enrichment Plant Safeguards by Design Lessons Learned: Mr. Peter Friend, URENCO, Ltd.**

Mr. Peter Friend, Head of Security and Safeguards, URENCO Ltd, delivered a presentation on SBD lessons learned and best practices from safeguarding URENCO gas centrifuge enrichment plants (GCEPs) in Europe. In this context, he noted that: informal discussions with safeguards inspectors can be useful for inspectorates to learn about new plants and for an exchange of ideas on the safeguards approach; formal negotiations on the safeguards approach should include the operator, Member State, the IAEA (and regional inspectorates, as appropriate); centrifuge enrichment technology must be protected, for example by defining precise routes for LFUA inspections and moving instrument displays to hide sensitive data; inspectors must have access to cylinders in feed stations, process pipework, process valves, centrifuges, and sampling points; cascade halls should be physically smaller to shorten inspection routes; and valve/flange combinations in cascades should be eliminated to make it easier for the IAEA to detect misuse and to simplify inspections.

Mr. Friend emphasized that safeguards verification must not interfere with commercial operations of a uranium enrichment facility, and that plant operators and designers need to understand both the safeguards inspection measures and security requirements agreed to by Member States, the IAEA, and regional inspectorates.

Mr. Friend added that URENCO would rather have a high frequency of visits by inspectors than the introduction of intrusive, untested safeguards monitoring equipment. He also noted that a large part of URENCO's opposition to the proposed use of novel safeguards technologies is their potential for leading to an increase in the capital cost and a delay to the construction of new GCEPs. These operate in a highly competitive world market, in which many of the competitors' plants have no international safeguards inspections at all. In this commercial climate, those GCEP operators whose plants are subject to IAEA inspection will of course resist novel safeguards developments that could increase their costs.

**From:** Friend, Peter [mailto:Peter.Friend@urenco.com]

**Sent:** Monday, February 28, 2011 1:07 PM

**To:** Shipwash, Jacqueline L.; Dougan, Arden (CONTR); Bruce W. Moran; David H. Hanks; Dianna Blair; Don Parker; Lockwood, Dunbar; Keel, Frances; Humberto M. Ruivo; Johannes Kerner; John Carlson; Jon Long; Kim Engle; Kollar, Lenka (INTERN); McGinnis, Brent R.; Morgan, James B.; Osvaldo Calzetta Larrieu; Paolo Peerani; Piet van der Heide; Shoko Iso; Tim Harris; Tom Grice; Whitaker, J. Michael; Sanford, Gary  
**Subject:** RE: NGS3 Enrichment Working Group Draft Report

Dear Jackie,

Here are URENCO's comments, in the attached letter and accompanying marked-up report.

Regards,

Peter Friend  
Head of Security & Safeguards  
URENCO Limited  
18 Oxford Road, Marlow, Bucks  
SL7 2NL, United Kingdom

Tel: +44 151 473 4165

Fax: +44 151 473 4371

Mob: (b)(6)

E-mail: [peter.friend@urencol.com](mailto:peter.friend@urencol.com)

Web: [www.urencol.com](http://www.urencol.com)

---

**From:** Shipwash, Jacqueline L. [mailto:shipwashjl@ornl.gov]

**Sent:** 17 February 2011 17:41

**To:** Arden Dougan; Bruce W. Moran; David H. Hanks; Dianna Blair; Don Parker; Dunbar Lockwood; Frances Keel; Humberto M. Ruivo; Johannes Kerner; John Carlson; Jon Long; Kim Engle; Lenka Kollar; McGinnis, Brent R.; Morgan, James B.; Osvaldo Calzetta Larrieu; Paolo Peerani; Friend, Peter; Piet van der Heide; Shipwash, Jacqueline L.; Shoko Iso; Tim Harris; Tom Grice; Whitaker, J. Michael

**Cc:** Shipwash, Jacqueline L.

**Subject:** NGS3 Enrichment Working Group Draft Report

Team,

Thanks to those that provided comments to the "Next Steps" and "Recommendations." Your comments have been incorporated into the draft report.

Attached you will find the Enrichment Working Group Draft report for review and comment. This report is a compilation of the notes from the NGS3 Enrichment Working Group discussions, next steps, recommendations, and affiliated appendices.

Please return your review comments to me. Dunbar Lockwood has requested that all comments be returned by month end (February 28) for incorporation into a final report.

Sincerely,  
Jackie

*Jacqueline L. Shipwash  
International Safeguards Group  
Global Nuclear Security Technology Division  
Oak Ridge National Laboratory*

Phone: 865-241-9129

Cell: (b)(6)

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Registered Number: 01144899

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Registered Number: 01144899



12  
**Dentel, Glenn**

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**From:** Trapp, James  
**Sent:** Monday, March 14, 2011 4:46 PM  
**To:** Dentel, Glenn  
**Cc:** McGinty, Tim  
**Subject:** RE: March 14, 2011, 3:30pm Japan Nuclear Facility Updates

I just haven't got conformation that core cooling was restored. But I was excited to hear that!

We should get more information when folks wake up overhere. Thanks for the update - while it was good news I needed the source.

Thanks take care!

---

**From:** Dentel, Glenn  
**Sent:** Monday, March 14, 2011 4:43 PM  
**To:** Trapp, James  
**Subject:** RE: March 14, 2011, 3:30pm Japan Nuclear Facility Updates

From Marty Virgilio's 3:30 update from the operations center. Was any of the information characterized incorrectly?

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

**From:** Trapp, James  
**Sent:** Monday, March 14, 2011 4:35 PM  
**To:** Dentel, Glenn  
**Subject:** RE: March 14, 2011, 3:30pm Japan Nuclear Facility Updates

Hi Glenn - can you provide the source of this information. Thank you!

---

**From:** Dentel, Glenn  
**Sent:** Monday, March 14, 2011 4:09 PM  
**To:** Dean, Bill; Lew, David; Wilson, Peter; Roberts, Darrell; Collins, Daniel; Lorson, Raymond; Baker, Pamela; Walker, Tracy; Sunil.Weerakoddy@nrc.gov; Clifford, James; Miller, Chris  
**Cc:** Screnci, Diane; Sheehan, Neil; Trapp, James; McNamara, Nancy; Tifft, Doug; Hansell, Samuel; Hinson, Felicia; raymond.McKinely@nrc.gov  
**Subject:** March 14, 2011, 3:30pm Japan Nuclear Facility Updates

Update regarding Japan,

Fukushima Daiichi

Unit 1 has restored sea water injection approximately 6 hours ago

Unit 2 has sea water injection; a hole was intentionally created in the secondary containment to prevent a buildup of hydrogen and explosion as occurred at Units 1 and 3

Unit 3 has sea water injection

No spent fuel pool issues at this time.

---

Chuck Casto will lead a team to support Japan and recovery efforts.

---

Operations Center has developed/is developing:

- Accident progression evaluations and potential releases
- Q&As including focus on the safety of our reactors

This is a brief summary of the ongoing efforts.

Glenn Dentel, RDO

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

From: samuel hansell [mailto:(b)(6)]

Sent: Sunday, March 13, 2011 4:55 PM

To: Dean, Bill; Lew, David; Wilson, Peter; Roberts, Darrell; Collins, Daniel; Lorson, Raymond; Baker, Pamela; Walker, Tracy; Sunil.Weerakoddy@nrc.gov; Clifford, James; Miller, Chris

Cc: Screnci, Diane; Sheehan, Neil; Trapp, James; McNamara, Nancy; Tifft, Doug; Dentel, Glenn; Hansell, Samuel; Hinson, Felicia; raymond.McKinely@nrc.gov

Subject: March 13, 2011, 3:00pm Japan Nuclear Facility Updates

Everyone,

Jim Trapp has arrived in Tokyo at the US Ambassador Office and has successfully provided a good source of current Japanese nuclear plant data. He has a scheduled

meeting with Japanese officials in four hours to obtain additional information related to the status of the nuclear power plants.

Fukushima Daiichi Units 1 and 3 have experienced core damage; the reactor cores were completely uncovered for a period of time; reactor water level was restored on Unit 1.

Sea water injection is in progress on Unit 3, however there is no indication that the reactor water level is restored above the fuel zone level on Unit 3.

Fukushima Daiichi Unit 2 reactor condition has improved. DC electrical power has been restored and Reactor Core Isolation Cooling (RCIC) has restored water level to above the fuel zone.

Latest information has stated that the reactor vessel and primary containment structures are still intact for all of the nuclear units; there is intermittent venting of the primary

containment (to the atmosphere) to maintain internal pressure within design limits.

The radiation readings on the US aircraft carrier Ronald Reagan was measured at 0.6 millirem; this radiation reading is consistent with the containment venting operation of the Fukushima reactors.

NRC has issued a press release stating that "no harmful radiation release has reached the US; additional press releases to follow.

The NRC Chairman's Senate Hearing scheduled for this Wednesday will now focus on the Japanese nuclear plant followup actions and not the previous budget discussion topic.

An erroneous release of projected Japanese plant release plume data, using the NRC logo without our knowledge, contains information that the release rates could be as high as 75 Rem and reach Colorado, USA. There has been an attempt to remove this mis-leading and unauthorized information; however the info still may exist on some social media locations.

Next Japan update call is tonight at 11:30 pm; I plan to listen in on the call.

Thanks,  
Sam H

Tokyo Electric Power Company recent updates (recent press release details attached):

- The value of radioactive material (iodine, etc) is increasing according to the monitoring car at the site (outside).

- We are currently coordinating with the relevant authorities and departments as

to how to cool down the water in the spent nuclear fuel pool.

Daiichi Unit 2's latest report noted that the high pressure Reactor Core Isolation Cooling (RCIC) system is injecting water into the reactor vessel; however vessel level is below normal levels and this reactor could be vulnerable

to further degradation.

The US aircraft carrier Ronald Reagan is 100 miles off the coast of Japan and is

being used by helicopters for supply delivery and rescue efforts. The radiation air monitors are detecting radiation releases from the nuclear plants; when asked the HQs briefer could not provide the initial radiation levels until they're verified with backup readings. Also, the helicopters returning to the aircraft carrier were found to have low levels of contamination; again no values

of the contamination levels at this time.

The White House plans to issue a press release "soon" that will stress the need for effective communication of the Japanese nuclear plants' status; the ongoing US support for the Japanese emergency response efforts; and the fact that the US

plants are not at risk.

The NRC has prepared a press release and will release if the White House press release does not include sufficient details about the ongoing nuclear reactor recovery efforts

**From:** Monninger, John  
**To:** LIA03 Hoc; Ramsey, Jack; Nakanishi, Tony; Kolb, Timothy; Foggie, Kirk; Smith, Brooke; Casto, Chuck; Foster, Jack; Devercelly, Richard; Cook, William  
**Cc:** Doane, Margaret; Mamish, Nader; LIA02 Hoc; Leeds, Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones, Andrea; Schwartzman, Jennifer; Stewart, Sharon; Kozal, Jason; (b)(6)  
**Subject:** RE: CONTACT FROM USAID  
**Date:** Monday, March 14, 2011 7:21:01 PM

---

I received my e-ticket and heading to Dulles by 2000 for 2305 United Flight 0924 to London, connecting to British Airways 0005.

Many thanks,  
John Monninger

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

**From:** LIA03 Hoc  
**Sent:** Monday, March 14, 2011 6:08 PM  
**To:** Ramsey, Jack; Nakanishi, Tony; Kolb, Timothy; Foggie, Kirk; Smith, Brooke; Casto, Chuck; Monninger, John; Foster, Jack; Devercelly, Richard; Cook, William  
**Cc:** Doane, Margaret; Mamish, Nader; LIA02 Hoc; Leeds, Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones, Andrea; Schwartzman, Jennifer; Stewart, Sharon; Kozal, Jason; (b)(6)  
**Subject:** CONTACT FROM USAID

Mike Dudek and Jason Kozal will be contacting you about travel arrangements tonight to Tokyo.

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

**From:** Ramsey, Jack  
**Sent:** Monday, March 14, 2011 5:37 PM  
**To:** Nakanishi, Tony; Kolb, Timothy; Foggie, Kirk; Smith, Brooke; Casto, Chuck; Monninger, John; Foster, Jack; Devercelly, Richard; Cook, William  
**Cc:** Doane, Margaret; Mamish, Nader; LIA02 Hoc; LIA03 Hoc; Leeds, Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones, Andrea; Schwartzman, Jennifer; Stewart, Sharon  
**Subject:** RE: 8 NRC people to Japan ASAP  
**Importance:** High

NRC folks,

Apologies for any confusion. As you can tell by the exchange of messages with the NSC and DOD, we're exploring all possible angles on how to get you to Japan as quickly and efficiently as possible.

I understand that USAID is making your travel arrangements. Best guess is that the WashDC folks will be on a flight (maybe British Air) that leaves Dulles around 23:00 or so (plus or minus a little). There will be a connection through London Heathrow, then on to Tokyo. We don't have any insight on what USAID might arrange for the non-WashDC folks.

Either way, please coordinate through the International Liaison desk at the Ops Center (301-816-5192).

Jack

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

**From:** Nakanishi, Tony  
**Sent:** Monday, March 14, 2011 5:25 PM  
**To:** (b)(6)

(b)(6)

AAA A/27

(b)(6)

Subject: RE: 8 NRC people to Japan ASAP

I can also make it to any DC airport before 2200.  
Tony Nakanishi

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

From: Kolb, Timothy

Sent: Monday, March 14, 2011 5:22 PM

To: (b)(6)

(b)(6)

Subject: RE: 8 NRC people to Japan ASAP

I can make it to any DC airport before 2200. Just need to know which one and which flight.  
Tim Kolb

From: (b)(6)

Sent: Monday, March 14, 2011 5:11 PM

To: (b)(6)

(b)(6)

Subject: Re: 8 NRC people to Japan ASAP

If I did my conversion right it looks like we will not make the Nellis flight.

So I would ask the NRC to get their nine to DC as soon as possible. If my expedite search is right I think they all could make it here by about 2200 assuming they all close to their airports. NRC-pls let us

know when you can get everyone here.

From there we will see what DOD can support out of the DC area. Under this model we will be positioned for the comm air option and anything DOD can support.  
TJ

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

From: (b)(6)

To: (b)(6)

(b)(6)

Sent: Mon Mar 14 16:51:00 2011

Subject: RE: 8 NRC people to Japan ASAP

TJ -- ensure ALCON know/understand that this TRANSCOM planning remains TENTATIVE until positively confirmed. A lot of moving pieces here, so we MOST STRONGLY recommend NRC retain their commercial air plans. It will be a challenge for NRC folks to get to Vegas, then over to Nellis, and we do not intend to hold up the flight for them. For the moment, here is what the DOE lift looks like:

Mission Number: PJM112471073-

C-17 alert NLT 14/1800Z

Dep Travis AFB CA (KSUU) 14/2100Z

Arr/Dep Nellis AFB NV (KLSV) - 14/2200Z - 15/0045Z

Arr/Dep Elmendorf AFB for gas (PAED) - 15/0545Z - 15/0730Z

Arr Yokota AFB Japan (RJTY) - 15/1545Z

Please stress again -- this flight sked remains TENTATIVE!! We've got a bunch of folks scrambling hard to make it happen, but please remain

flexible.

\*\*\*\*\*

RADM Kurt W. Tidd, USN  
Vice Director for Operations, J3  
3000 Joint Staff Pentagon  
Rm 2D882  
Washington DC 20318-3000  
Tel: (703) 695-0987  
DSN: 225-0987  
Fax: (703) 614-1755

Red Switch: (b)(6)

Blackberry: (b)(6)

Email: (b)(6)

SIPR: (b)(6)

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

From: Zerr, Thomas J. [mailto:(b)(6)]

Sent: Monday, March 14, 2011 4:42 PM

To: Tidd, Kurt W RADM JCS VDJ-3; Gallagher, Shawn P.;

'NGOC.CLARK@OSD.MIL'; 'Jack.Ramsey@nrc.gov'; 'Charlotte.Abrams@nrc.gov';

Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; (b)(6)

(b)(6) Engle, Thomas E Lt Col JCS J3/NMCC; Severs,

Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID

W COL JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5

POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3;

Kremer, Kyle Col JCS J4 DISTRIBUTION; NMCC DDO; CMT Team Chief JCS;

Trussler, Jeffrey E CAPT JCS J3; Carey, Michael Brig Gen JCS J3/NMCC;

Basham, Steven L Col JCS J3/NMCC; (b)(6)

'Joseph.Krol@nnsa.doe.gov'; Faulkner, William BGen JCS J4 J-4 FRONT  
OFFICE

Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel

R.; Duncan, Shawn H.; Bentz, Julie A.; 'Margaret.Doane@nrc.gov';

'Nader.Mamish@nrc.gov'; 'Kirk.Foggie@nrc.gov'; 'Brooke.Smith@nrc.gov';

'LIA02.Hoc@nrc.gov'; 'LIA03.Hoc@nrc.gov'; 'Jane.Marshall@nrc.gov';

'Chuck.Casto@nrc.gov'; 'John.Monninger@nrc.gov';

'Tony.Nakanishi@nrc.gov'; 'Timothy.Kolb@nrc.gov'; 'Jack.Foster@nrc.gov';

'Richard.Devercelly@nrc.gov'; 'Glenn.Tracy@nrc.gov';

'Eric.Leeds@nrc.gov'; 'Bruce.Boger@nrc.gov'; 'James.Trapp@nrc.gov';

'Anthony.Ulises@nrc.gov'; 'Mary.Carter@nrc.gov';

'Danielle.Emche@nrc.gov'; 'Andrea.Jones2@nrc.gov';

'Jennifer.Schwartzman@nrc.gov'; 'William.Cook@nrc.gov'; Baden, Tim;

Dolan, Edward M.; Donnell, Charles D.; Gelman, Jeffrey D.

Subject: Re: 8 NRC people to Japan ASAP

Thanks Admiral.

NRC-Once we get TRANSCOM flight data we will need to move quick to see  
if we can get your nine to the launch point in time.

As previously stated please keep planning to execute the commercial  
flight option if the mil air ends up not working out.

TJ

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

From: Tidd, Kurt W RADM JCS VDJ-3 <Kurt.Tidd@js.pentagon.mil>

To: (b)(6)

(b)(6)

(b)(6)

Sent: Mon Mar 14 16:32:13 2011

Subject: RE: 8 NRC people to Japan ASAP

TJ -- we're moving DOE AMS and Consequence Management teams as quickly as we can spool up the lift; have looped in our POC's on the cc line. Would not recommend delaying any flights while we await the NRC personnel, but if there's room, and if they can get themselves to the lift site (Nellis AFB - Las Vegas), we have SECDEF authorization to carry non-DOD personnel in support of this crisis.

JLOC -- As soon as we have the TRANSCOM flight info, please push toalcon and we'll see if we can provide an alternative to commercial air. Again,



unless  
otherwise directed, recommend we not hold up the DOE flights, but if we  
can  
kill two birds, let's do it.

\*\*\*\*\*

RADM Kurt W. Tidd, USN  
Vice Director for Operations, J3  
3000 Joint Staff Pentagon  
Rm 2D882  
Washington DC 20318-3000  
Tel: (703) 695-0987  
DSN: 225-0987  
Fax: (703) 614-1755

Red Switch: (b)(6)

Blackberry: (b)(6)

Email: (b)(6)

SIPR: (b)(6)

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

From: Gallagher, Shawn P. (b)(6)

Sent: Monday, March 14, 2011 4:05 PM

To: 'Clark, Ngoc CIV OSD POLICY'; 'Ramsey, Jack'; Abrams, Charlotte;  
Zerr, Thomas J.; Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR;  
Hulley, Paul, SES, OSD-POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd,  
Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul  
J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL  
JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5  
POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3;  
Kremer, Kyle Col JCS J4 DISTRIBUTION

Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel  
R.; Duncan, Shawn H.; Bentz, Julie A.; Doane, Margaret; Mamish, Nader;  
Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03 Hoc; Marshall, Jane;  
Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster,  
Jack; Devercelly, Richard; Tracy, Glenn; Leeds, Eric; Boger, Bruce;  
Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones,  
Andrea; Schwartzman, Jennifer; Cook, William; Baden, Tim; Dolan, Edward  
M.; Donnell, Charles D.; Gelman, Jeffrey D.; Hepburn, Matthew; Kamoie,  
Brian E.; Kern, Dab; Kim, Paul; Landau, Zachary L.; Marcozzi, David E.;  
Mecher, Carter E.; Panketh, Eric J. (NSC); Reed, Richard A.; Tribble,  
Ahsha; Zelvin, Lawrence K.; Holgate, Laura  
Subject: RE: 8 NRC people to Japan ASAP

Again looping in resilience here at NSC. Thanks all!

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

From: Clark, Ngoc CIV OSD POLICY (b)(6)

Sent: Monday, March 14, 2011 3:58 PM

To: 'Ramsey, Jack'; Abrams, Charlotte; Zerr, Thomas J.; Zenner, Todd  
LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY;  
Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle,  
Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN  
Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN,  
ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE  
CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3; Kremer, Kyle Col JCS J4  
DISTRIBUTION

Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel

R.; Duncan, Shawn H.; Gallagher, Shawn P.; Bentz, Julie A.; Doane, Margaret; Mamish, Nader; Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03 Hoc; Marshall, Jane; Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Devercelly, Richard; Tracy, Glenn; Leeds, Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones, Andrea; Schwartzman, Jennifer; Cook, William  
Subject: RE: 8 NRC people to Japan ASAP

Looping in J-4 colleagues with the details of the request.

Ms. Ngoc Clark  
Foreign Affairs Specialist

Humanitarian Assistance, Disaster Relief, and Global Health Directorate  
Office of Partnership Strategy & Stability Operations (PSO)  
OUSD(Policy) - SO/LIC & IC  
5C653  
703-692-0122

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

From: Ramsey, Jack [mailto:Jack.Ramsey@nrc.gov]  
Sent: Monday, March 14, 2011 3:54 PM  
To: Abrams, Charlotte; 'Thomas J. Zerr@nss.eop.gov'; Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3  
Cc: (b)(6); 'TaskForce1Mailbox@state.gov'; (b)(6); (b)(6); Doane, Margaret; Mamish, Nader; Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03 Hoc; Marshall, Jane; Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Devercelly, Richard; Tracy, Glenn; Leeds, Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones, Andrea; Schwartzman, Jennifer; Cook, William  
Subject: RE: 8 NRC people to Japan ASAP

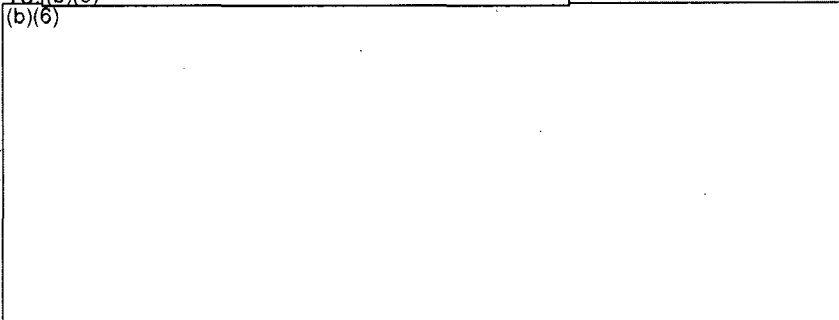
All,

As the message below indicates, we now have an additional person (for a total of 9) from our regional office outside Philadelphia.

Jack Ramsey

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

From: (b)(6)  
Sent: Monday, March 14, 2011 3:52 PM  
To: (b)(6)  
(b)(6)



(b)(6)

Subject: Re: 8 NRC people to Japan ASAP

Also Bill Cook from RI

Sent from my nrc blackberry. Charlotte Abrams (b)(6)

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

From: (b)(6)

To: (b)(6)

(b)(6)

Sent: Mon Mar 14 15:48:03 2011

Subject: RE: 8 NRC people to Japan ASAP

All,

To summarize, the Nuclear Regulatory Commission has been requested by the Japanese government to supplement our staffing at the US Embassy in Tokyo (we currently have two staff there). In response, we have identified 8 NRC staff for this. We have 6 staff from WashDC (John Monninger, Tony Nakanishi, Tim Kolb, Jack Foster, Brooke Smith and Kirk Foggie), 1 from Atlanta (Chuck Casto) and 1 from Chattanooga (Richard Devercelly). The earliest commercial flights that are available are around 13:00 EDT tomorrow (Tuesday). Obviously, we'd like to get them there earlier if at all possible. This is what prompted the question on whether DOD and/or other appropriate assets might be available.

For coordination purposes, the International Liaison Team at NRC's Emergency Operations Center will be lead for this. E-mail addresses there are [lia02.hoc@nrc.gov](mailto:lia02.hoc@nrc.gov) and [lia03.hoc@nrc.gov](mailto:lia03.hoc@nrc.gov), with direct phone line of (301) 816-5192 (this is a recorded line). In the event of any communication issues, please call the main number for NRC's Emergency Operation Center on (301) 816-5100 and ask for International Liaison.

Please also note that the NRC team has been cc'ed on this message.

Thanks to everyone for looking at this.

Jack Ramsey

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

From: Zerr, Thomas J. [mailto:(b)(6)]  
Sent: Monday, March 14, 2011 3:25 PM  
To: Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3  
Cc: Ramsey, Jack; Wormuth, Christine; TaskForce1Mailbox@state.gov; Russel, Daniel R.; Duncan, Shawn H.; Gallagher, Shawn P.; Bentz, Julie A.  
Subject: RE: 8 NRC people to Japan ASAP

+TF-1 mailbox for appropriate State loop in.

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

From: Zerr, Thomas J. [mailto:(b)(6)]  
Sent: Monday, March 14, 2011 2:58 PM  
To: Hulley, Paul, SES, OSD-POLICY; Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3  
Cc: 'Ramsey, Jack'  
Subject: FW: 8 NRC people to Japan ASAP

All-

I have discussed this on the phone with Paul and Todd. Needless to say the request is hot and getting big brains on the reactor issues out there soonest is critical given the situation at the plants.

Please inform if this request should go via a different path you can identify for me; or if this group can facilitate getting a DOD response to this request.

Jack-Please confirm the status of passports on these folks. Also I would continue to pursue any other transportation options outside of DOD so we don't lose any time.

TJ

From: Gallagher, Shawn P.  
Sent: Monday, March 14, 2011 2:46 PM  
To: 'Ramsey, Jack'; Zerr, Thomas J.; Bentz, Julie A.  
Subject: 8 NRC people to Japan ASAP

Jack, per our conversation TJ is calling over to DOD. Wanted to connect everyone via email so we can report status.

Julie, to bring you up to speed, the Japanese requested more NRC support and NRC identified 8 people to go on an immediate basis. Earliest commercial flight isn't until 1:00 tomorrow. TJ is finding out if there a mil air option.

Locations of individuals are 6 in DC, 1 in Atlanta, 1 in Chattanooga. All are currently packing and awaiting orders

**From:** Haney, Catherine  
**To:** Tschiltz, Michael; Bailey, Marissa  
**Subject:** FW: FYI - MOX Alert - TVA, Energy Northwest & Exploding Japanese MOX Reactor  
**Date:** Monday, March 14, 2011 3:31:00 PM

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**From:** Weber, Michael  
**Sent:** Monday, March 14, 2011 3:15 PM  
**To:** Dorman, Dan; Haney, Catherine  
**Cc:** Kinneman, John; Leeds, Eric; Boger, Bruce; Frazier, Alan; McIntyre, David; Burnell, Scott  
**Subject:** FYI - MOX Alert - TVA, Energy Northwest & Exploding Japanese MOX Reactor

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**From:** (b)(6)  
**To:** (b)(6)  
**Sent:** Mon Mar 14 10:48:46 2011  
**Subject:** MOX Alert - TVA, Energy Northwest & Exploding Japanese MOX Reactor

**MOX Alert - Energy Northwest and TVA MOX Plans & Exploding Japanese MOX Reactor**

Energy Northwest, TVA and DOE officials have remained virtually silent about secret plans to use experimental weapons-grade plutonium fuel (MOX) in the Columbia Generating Station. It is noted that the Fukushima Daiichi Unit 3 exploding reactor is partially loaded with a first batch of reactor-grade MOX, thus making radioactive release potentially worse. Weapons-grade MOX has never even been tested in a boiling water reactor (BWR) and DOE is planning to use it in the GE Mark I design (Browns Ferry and Fukushima Daiichi 1-3 reactors) and GE Mark II (CGS). We will continue efforts to reveal information about this program to the US public.

Tom Clements  
Friends of the Earth

top of homepage - Salem, OR

<http://salem-news.com/>

<http://salem-news.com/articles/march142011/nuke-reactor-wash.php>

**Mar-14-2011 03:05**

**Secret Plan Exposed to Use Surplus Weapons Plutonium in Washington State Nuclear Reactor**

**Salem-News.com**

FOIA Documents Reveal Energy Northwest Plans Plutonium Fuel (MOX) Experiments While Seeking to Control Information Leaks to the Media.

See original Feb. 3, 2011 news release on Friends of the Earth website:  
[Secret Plan Exposed to Use Surplus Weapons Plutonium in Washington State Nuclear Reactor](http://www.foe.org/secret-plan-exposed-use-surplus-weapons-plutonium-washington-state-nuclear-)  
<http://www.foe.org/secret-plan-exposed-use-surplus-weapons-plutonium-washington-state-nuclear->

AAAA/28

reactor

###

distributed nationally:

from Experts Comment on U.S. Implications of Japanese Reactor Crisis

March 14, 2011

<http://www.foe.org/experts-comment-us-implications-japanese-reactor-crisis>

MOX section:

**As in Japan's Fukushima Unit 3, the use of plutonium fuel (MOX) in U.S. reactors poses special radiation and safety risks.** One of the Japanese reactors under risk of continued fuel melting or explosion is now operating for the first time with part of the core being plutonium fuel. This plutonium mixed oxide (MOX) fuel, shipped from Europe and inserted in Fukushima Unit 3 in September 2010, poses greater risks than traditional uranium fuel. MOX, made from plutonium which is capable of being used in nuclear weapons, is harder to control during reactor operation and results in a more serious radiation release in the event of an accident. The plutonium in the MOX is a result of the reprocessing of Japanese spent fuel and that reprocessing program. MOX use has long been opposed by public interest groups due to safety, cost and non-proliferation concerns.

Tom Clements, Southeastern nuclear campaign coordinator, Friends of the Earth, said: "In the U.S., the Department of Energy is considering use of MOX fuel in the Tennessee Valley Authority's Browns Ferry reactors, of the same aging Mark I boiling water reactor design as Fukushima Unit 3. Analysis by the Tennessee Valley Authority of unsafe MOX fuel made from surplus weapons plutonium must be halted and the \$850 million request related to this in President Obama's FY2012 must be rejected. The cost of the MOX plant now under construction at the Department of Energy's Savannah River Site has skyrocketed from \$1.4 billion in FY 2004 to \$4.9 billion in FY 2009 and has become a program driven by special interests that profit from it."

See [http://www.fissilematerials.org/blog/2011/03/us\\_plutonium\\_disposition\\_.html](http://www.fissilematerials.org/blog/2011/03/us_plutonium_disposition_.html) and <http://www.foe.org/secret-plan-exposed-use-surplus-weapons-plutonium-washington-state-nuclear-reactor>.

Contact Tom Clements at 803-834-3084 (landline).

**From:** Haney, Catherine  
**To:** Smith, Shawn  
**Subject:** Re: ACTION: Commissioners Assistants Briefing Notification  
**Date:** Monday, March 14, 2011 2:31:32 PM

---

Ok. I will head back now. Bobby is on the otherside of the room. We will just go forward without him

---

**From:** Smith, Shawn  
**To:** Haney, Catherine  
**Sent:** Mon Mar 14 14:14:16 2011  
**Subject:** RE: ACTION: Commissioners Assistants Briefing Notification

2:30 works for all....I haven't been able to reach Bobby, if you see him can you ask if he can come over at 2:30 with you?

Shawn Rochelle Smith  
Senior International Program Coordinator  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Mail Stop: EBB1-D2M  
Washington, DC 20555  
Office Phone: (301) 492-3260  
Blackberry: (b)(6)  
Fax: (301) 492-3360  
E-mail: Shawn.Smith@nrc.gov

**From:** Haney, Catherine  
**Sent:** Monday, March 14, 2011 2:13 PM  
**To:** Smith, Shawn  
**Subject:** Re: ACTION: Commissioners Assistants Briefing Notification

How about 230. I'm in SLS mtg but can head back once you have new time.

---

**From:** Smith, Shawn  
**To:** Haney, Catherine  
**Sent:** Mon Mar 14 14:04:32 2011  
**Subject:** RE: ACTION: Commissioners Assistants Briefing Notification

I'm sure we can....what time? I can ask that Janet available earlier and call to see if Budhi is available also. Bobby is at the SLS meeting..

Shawn Rochelle Smith  
Senior International Program Coordinator  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Mail Stop: EBB1-D2M  
Washington, DC 20555  
Office Phone: (301) 492-3260

AAAA/29



Blackberry: (b)(6)  
Fax: (301) 492-3360  
E-mail: Shawn.Smith@nrc.gov

**From:** Haney, Catherine  
**Sent:** Monday, March 14, 2011 2:03 PM  
**To:** Smith, Shawn  
**Subject:** Re: ACTION: Commissioners Assistants Briefing Notification

Can we start 3pm mtg early so I can listen

---

**From:** ANS.HOC@nrc.gov <ANS.HOC@nrc.gov>  
**Sent:** Mon Mar 14 13:56:42 2011  
**Subject:** ACTION: Commissioners Assistants Briefing Notification

This is the Headquarters Operations Officer. There will be a Commissioners Assistants Briefing given by headquarters at 15:30 Eastern Daylight Time concerning the Japanese reactor event. Call (b)(6) approximately 5 minutes before the scheduled start time. When prompted, enter the security code (b)(6). You may call 301-816-5164 at this time and follow the voice prompts if you do not wish to receive this notification from our Automatic Notification System.

**From:** Haney, Catherine  
**To:** Smith, Shawn  
**Subject:** Re: ACTION: Commissioners Assistants Briefing Notification  
**Date:** Monday, March 14, 2011 2:02:45 PM

---

Can we start 3pm mtg early so I can listen

---

**From:** ANS.HOC@nrc.gov <ANS.HOC@nrc.gov>  
**Sent:** Mon Mar 14 13:56:42 2011  
**Subject:** ACTION: Commissioners Assistants Briefing Notification

This is the Headquarters Operations Officer. There will be a Commissioners Assistants Briefing given by headquarters at 15:30 Eastern Daylight Time concerning the Japanese reactor event. Call (b)(6) approximately 5 minutes before the scheduled start time. When prompted, enter the security (b)(6). You may call 301-816-5164 at this time and follow the voice prompts if you do not wish to receive this notification from our Automatic Notification System.

**From:** Haney, Catherine  
**To:** Smith, Shawn  
**Subject:** Re: ACTION: Commissioners Assistants Briefing Notification  
**Date:** Monday, March 14, 2011 2:13:03 PM

---

How about 230. I'm in SLS mtg but can head back once you have new time.

---

**From:** Smith, Shawn  
**To:** Haney, Catherine  
**Sent:** Mon Mar 14 14:04:32 2011  
**Subject:** RE: ACTION: Commissioners Assistants Briefing Notification

I'm sure we can....what time? I can ask that Janet available earlier and call to see if Budhi is available also. Bobby is at the SLS meeting..

Shawn Rochelle Smith  
Senior International Program Coordinator  
Office of Nuclear Material Safety and Safeguards  
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Mail Stop: EBB1-D2M  
Washington, DC 20555  
Office Phone: (301) 492-3260  
Blackberry: (b)(6)  
Fax: (301) 492-3360  
E-mail: Shawn.Smith@nrc.gov

---

**From:** Haney, Catherine  
**Sent:** Monday, March 14, 2011 2:03 PM  
**To:** Smith, Shawn  
**Subject:** Re: ACTION: Commissioners Assistants Briefing Notification

Can we start 3pm mtg early so I can listen

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**From:** ANS.HOC@nrc.gov <ANS.HOC@nrc.gov>  
**Sent:** Mon Mar 14 13:56:42 2011  
**Subject:** ACTION: Commissioners Assistants Briefing Notification

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**From:** Trapp, James  
**To:** alex.Robinson\_contractor@dtra.mil  
**Subject:** FW: Pumper Truck Status  
**Date:** Monday, March 14, 2011 5:52:14 PM

---

Good talking with you. I believe LCDR Duong is our go to guy. Thanks

From: Duong, Tamanh Q LCDR USN USFJ J4 [Tamanh.Duong@usfj.mil] On Behalf Of USFJ-CAT-J4 [usfj-cat-j4@usfj.mil]  
Sent: Monday, March 14, 2011 5:38 PM  
To: Trapp, James  
Subject: FW: Pumper Truck Status

Jim - FYSA on the fire truck. Sent one last night, the second one is on its way - ETA 1030 local time. See email below for more information.

Thanks!

V/R

Tamanh

Tamanh Q. Duong, P.E., MBA  
LCDR, U.S. Navy Civil Engineer Corps  
USFJ Joint Engineer Staff Officer  
DSN: (315) 225-4712, FAX: x6743  
Commercial (CONUS) 011-81-3117-55-4712  
Commercial (JAPAN) 03117-55-4712

NIPR: (b)(6)  
SIPR: (b)(6)

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

From: Harbor, Tim W Lt Col USAF USFJ J43  
Sent: Tuesday, March 15, 2011 5:22 AM  
To: McDaniel, Everett K COL USA USFJ J4  
Cc: USFJ-CAT-J4; USFJ-JLOC-J43  
Subject: RE: Pumper Truck Status

Sir,

Update--At 0430, the GOJ called and said we could press with the Negishi fire truck--coordinated with Yokosuka Fire Chief and the fire truck with police escort is enroute to Fukushima at this time. ETA due to traffic is around 1030hrs.

Respectfully,  
Tim

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

From: Harbor, Tim W Lt Col USAF USFJ J43  
Sent: Tuesday, March 15, 2011 3:12 AM  
To: McDaniel, Everett K COL USA USFJ J4  
Cc: Wilken, Curtis L LtCol USAF USFJ J4; Williams, Joseph V LTC USA USFJ J4  
Subject: Pumper Truck Status

AAAA/30

Sir,

Current fire truck status:

1. Yokota: One P-22 pump truck (750 gallon per minute capability/500 gallon capacity) with all required hoses and driver/trainer left Yokota AB at 1240L

with a police escort and an 0340 ETA. Have asked for a status update when

they arrive at the rally point. They will meet up with Lt Col Yato (JSDF contact) and the Tokyo Power personnel to do training on truck operation.

Rally point is Funabikihara (about 1 hour away from Fukushima Plant).

After

training at the rally point, our two personnel will be returning to Yokota

AB via GOV that followed them up.

2. Negishi (Yokohama): One P-22 pump truck (same capabilities) and driver/trainer is approved/standing by at Negishi as of 0220. MOFA POC (Mr.

Kido, working with Mr. Nagano--03-5501-8282) called me at 0230 and asked that we stand by as Tokyo Power is not yet ready to accept another truck at

this time. They will call the J4 CAT again and advise when they are ready to receive.

Based on the current request from MOFA to standby, am not pursuing further

trucks at this time, but will provide a list of pumper truck capabilities by

component to the J5 as soon as I have a complete list (currently awaiting

CNFJ/MARFORJ inputs)--shooting for 0600.

Have the components looking into other types of pumps as well--no update at

this time, but continuing to look. Will advise as I get new information.

Respectfully,

Tim

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

From: McDaniel, Everett K COL USA USFJ J4

Sent: Monday, March 14, 2011 11:53 PM

To: USFJ-CAT-J4; Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col

USAF USFJ J43

Subject: Trucks

Truck leave Yokosuka yet?

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

From: Duong, Tamanh Q LCDR USN USFJ J4 On Behalf Of USFJ-CAT-J4

Sent: Monday, March 14, 2011 11:50 PM

To: McDaniel, Everett K COL USA USFJ J4; Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ J43; USFJ-CAT-J4

Subject: RE: Truck leave Yokota yet?

Sir,

Fire truck is at the front gate. Police escort should be there within  
10  
mins.  
Will advise when it departs.

Thanks!

J4 CAT

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

From: McDaniel, Everett K COL USA USFJ J4

Sent: Monday, March 14, 2011 11:48 PM

To: Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ  
J43;

Duong, Tamanh Q LCDR USN USFJ J4; USFJ-CAT-J4

Subject: Truck leave Yokota yet?

Everett K. McDaniel

Colonel, US Army

Director, Logistics and Installations

USFJ

DSN: (325) 225-4713/4705

Commercial from the US: 011-81-31175-54713

DSN Fax: 225-4709

NIPR: (b)(6)

SIPR: (b)(6)

**From:** Cherry, Ronald C  
**To:** JapanEmbassy, TaskForce  
**Cc:** Alan Remick; Aleshia Duncan; Duncan, Aleshia D; Trapp, James; James Trapp (BB); Mears, Jeremy M; Morales, Russell A; Nesheiwat, Julia; Tamada, Yoshimi; Ulises, Anthony; Uchida, Koichi  
**Subject:** FW: Log Status  
**Date:** Monday, March 14, 2011 7:05:48 PM

---

FYI re: fire trucks for Fukushima.

This email is UNCLASSIFIED.

**From:** Trapp, James [mailto:James.Trapp@nrc.gov]  
**Sent:** Tuesday, March 15, 2011 6:54 AM  
**To:** USFJ-CAT-J4  
**Cc:** McGinty, Tim; Cherry, Ronald C  
**Subject:** RE: Log Status

We will let the Embassy Officials know that TEPCO has only requested 2 fire truck (1 delivered and one on the way). TEPCO has been informed of other assest we could provide and we are awaiting their response.

Great job! Appreciate you help!

---

**From:** Duong, Tamanh Q LCDR USN USFJ J4 [Tamanh.Duong@usfj.mil] On Behalf Of USFJ-CAT-J4 [usfj-cat-j4@usfj.mil]  
**Sent:** Monday, March 14, 2011 5:36 PM  
**To:** Trapp, James  
**Subject:** Log Status

Jim,

For your information on the date/time status:

**Title** GOJ Reactor Coolant Equipment Request

**Priority** CRITICAL

**Status** Open

**% Complete** 25%

**CAT Suspense** 3/15/2011 12:00 AM

**OPR** RECM

**Description** NRC advised that to help Japan provide coolant to the reactor, they need more than diesel-driven pumps. The VTC participants agreed that the U.S. military forces should immediately look for ways to provide the following to the Fukushima site:

- diesel-driven pump
- AC power
- DC power
- nitrogen/air

**Response** \*\*\*\*\*

Note: 0426 HRS

\*\*\*\*\*

Sent a note to Mr. Yahagi - the TEPCO engineer at [yahagi.kimitoshi@tepcoco.jp](mailto:yahagi.kimitoshi@tepcoco.jp) and his POC: 03-6373-6945

Good morning. Thank you for talking with me and Mr. Chang. We are from the U.S. Forces Japan BJOC.

As discussed, we would like to know a list of equipment and/or material you would need to cool the reactors at Fukushima, such as pump, electrical generator, batteries and

AAA/31

nitrogen gas. Please call us at 042552-2510-54110.

Thanks!

V/R

Tamanh

Tamanh Q. Duong, P.E., MBA  
LCDR, U.S. Navy Civil Engineer Corps  
USFJ Joint Engineer Staff Officer  
DSN: (315) 225-4712, FAX: x6743  
Commercial (CONUS) 011-81-3117-55-4712  
Commercial (JAPAN) 03117-55-4712

NIPR: (b)(6)

SIPR: (b)(6)

\*\*\*\*\*

Note: at 0355 HRS

\*\*\*\*\*

Got the phone/POC of TEPCO engineer from J5. Mr. Chang called the TEPCO engineer to discuss their needs, requirements. The TEPCO engineer mentioned that they already had five fire trucks on site. TEPCO also mentioned that they would touch base with Fukushima plant technicians to compile a list of equipment and materials to send to us.

\*\*\*\*\*

Note: 0209 HRS

\*\*\*\*\*

ALCON,

We just spoke with NCR - Peter Alter on the Pump, Generator / Charger, Nitrogen Requirement.

1. We need the contact information for the TEPCO Engineer or preferably the PLANT ENGINEER in order to ask him directly for the specifications of the PUMP, GENERATOR/CHARGER and QUANTITY OF NITROGEN GAS. And, as important we need to know if there are technicians and plant mechanics on hand to do the work.

2. NCR recommends we contact with the Plant Operator to determine additional information rather than send something up that is not usable.

- DIESEL PUMP SPECIFICATION: 250 GPM @ 75-100 PSI... PUMP CURVE, suction, lift head, impellor size.

- GENERATOR SPECIFICATION: 480V, 50HZ or 60HZ? MINIMUM CAPACITY?

- BATTERY CHARGER SPECIFICATION: 125V or 250V? MINIMUM AMPS?

- BATTERY SPECIFICATIONS: 125V - type and number

- NITROGEN GAS QUANTITY: Lbs or Kgs (Cylinder, Tanker?)

- ANY ADDITIONAL PIPING, FITTING, WIRING, TOOLS...

3. The requirement provided by NCR is basically the requirement to provide COOLANT into the reactor vessel and to RESTORE CONTROL:

COOLING: 250 GPM @ 75-100 PSI This is the estimated cooling stream and pressure required to remove the latent heat and overcome the 50 PSI or so gas venting from the containment vessel to reach the bottom. The fitting for the discharge is assumed to be a standard fire hose outlet. The issue is that to properly size the pump we need to know the pump lift, suction head and distance to pump -friction loss. Water source - ocean, cistern or hydrant?

CONTROLLER: ELECTRICAL GENERATORS - 480V 50HZ or 60HZ dependant on what the Plant is operating. The KW capacity is whatever we can provide - more the better. The generator will be plugged into the "electrical panel" or used to supplement whatever available power is existing at the site. ELECTRICAL CHARGER - for 125V (250V) BATTERIES, it is also possible to hook up ELECTRICAL GENERATOR to existing CHARGER. Assumption: batteries still working?

CONTROL: Pneumatic Control System - Nitrogen gas is used as the pneumatic control



medium within the reactor vessel. Need to ask the operator how much #lbs, cylinders or tanker truck worth is needed?

V/R Donald Chang P.E.  
Chief, Installation Division  
DSN 312-225-4712

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

From: McDaniel, Everett K COL USA USFJ J4  
Sent: Tuesday, March 15, 2011 12:58 AM  
To: USFJ-CAT-J4  
Subject: GOJ urgent request for water pumping capacity - follow up 2 (U)  
Classification: Unclassified  
See below and initiate contacts to develop situation.

From: Basalla, Suzanne I [<mailto:BasallaSI@state.gov>]  
Sent: Tuesday, March 15, 2011 12:23 AM  
To: LIA02 Hoc <[LIA02.Hoc@nrc.gov](mailto:LIA02.Hoc@nrc.gov)>; Mitchell, Derek J SES OSD POLICY  
<(b)(6)>; Schiffer, Michael DASD OSD; <(b)(6)>  
<(b)(6)>; McDaniel, Everett K COL USA USFJ J4; USFJ-CAT-CHIEF; Wiltse,  
Jeffrey S COL USA USFJ J5; Crowe, Blake BGen USMC USFJ J01; Field, Burton M Lt Gen  
USAF USFJ/J00-5 AF/CC; Duncan, Aleshia D <[DuncanAD@state.gov](mailto:DuncanAD@state.gov)>; Cherry, Ronald C  
<[CherryRC@state.gov](mailto:CherryRC@state.gov)>; JapanEmbassy, TaskForce  
<[JapanEmbassyTaskForce@state.gov](mailto:JapanEmbassyTaskForce@state.gov)>; Beed, John A <[beedja@state.gov](mailto:beedja@state.gov)>; Berger,  
William (RDMA/OFDA) <[wberger@usaid.gov](mailto:wberger@usaid.gov)>; Jaczko, Gregory  
<[Gregory.Jaczko@nrc.gov](mailto:Gregory.Jaczko@nrc.gov)>; HOO Hoc <[HOO.Hoc@nrc.gov](mailto:HOO.Hoc@nrc.gov)>; LIA06 Hoc  
<[LIA06.Hoc@nrc.gov](mailto:LIA06.Hoc@nrc.gov)>  
Cc: Roos, John AMB AMEMB JAPAN; Zumwalt, James P <[ZumwaltJP@state.gov](mailto:ZumwaltJP@state.gov)>; Fuller,  
Matthew G <[FullerMG@state.gov](mailto:FullerMG@state.gov)>  
Subject: RE: GOJ urgent request for water pumping capacity - follow up 1

Thank you. We look forward to the list of equipment and additional advice.

SBU

This email is UNCLASSIFIED.

From: LIA02 Hoc [<mailto:LIA02.Hoc@nrc.gov>]  
Sent: Tuesday, March 15, 2011 12:16 AM  
To: Basalla, Suzanne I; Mitchell, Derek J SES OSD POLICY; Schiffer, Michael SES OSD  
POLICY; <(b)(6)>  
<(b)(6)>; Crowe, William B BGen USMC USFJ J01; <(b)(6)>  
Duncan, Aleshia D; Cherry, Ronald C; JapanEmbassy, TaskForce; Beed, John A; Berger,  
William (RDMA/OFDA); Jaczko, Gregory; HOO Hoc; LIA06 Hoc  
Cc: Roos, John; Zumwalt, James P; Fuller, Matthew G  
Subject: RE: GOJ urgent request for water pumping capacity - follow up 1

Hi Suzanne,

I just spoke with the Director of the Reactor Safety Team here at the NRC Incident Response Center. She is aware of the request for equipment and has generated a list of equipment that, as I understand it, will be requested of U.S. military forces for use in Japan. She also notes that the equipment may need to be accompanied by instructions in Japanese and/or personnel knowledgeable of how to operate it. This list has been generated based on our understanding of the status of systems and the core at Units 1, 2 and 3. We believe that TEPCO personnel, who will have the most current knowledge of the condition of the core and emergency systems, will be in the best position to determine where and how the equipment can be used once it arrives. We are looking for

technical staff to be available to advise, if needed, on countermeasures that can be considered using this equipment.

Hope this helps,

Rani Franovich

Liaison Team Coordinator

U.S. Nuclear Regulatory Commission

**JLOC Suspende**

**Task Opened** 3/15/2011 3:00 AM

**Returned to CAT**

**Accepted by OPR**

**OCR** Director

**Assigned To**

**Attachments**

Created at 3/15/2011 2:29 AM by Duong, Tamanh Q LCDR USN USFJ J4

Last modified at 3/15/2011 4:43 AM by Duong, Tamanh Q LCDR USN USFJ J4

V/R

Tamanh

---

Tamanh Q. Duong, P.E., MBA

LCDR, U.S. Navy Civil Engineer Corps

USFJ Joint Engineer Staff Officer

DSN: (315) 225-4712, FAX: x6743

Commercial (CONUS) 011-81-3117-55-4712

Commercial (JAPAN) 03117-55-4712

NIPR: (b)(6)

SIPR: (b)(6)

**From:** Trapp, James  
**To:** CherryRC@state.gov  
**Subject:** FW: Pumper Truck Status  
**Date:** Monday, March 14, 2011 5:47:30 PM

---

FYI

From: Duong, Tamanh Q LCDR USN USFJ J4 (b)(6) On Behalf Of USFJ-CAT-J4  
(b)(6)  
Sent: Monday, March 14, 2011 5:38 PM  
To: Trapp, James  
Subject: FW: Pumper Truck Status

Jim - FYSA on the fire truck. Sent one last night, the second one is on its way - ETA 1030 local time. See email below for more information.

Thanks!

V/R

Tamanh

---

Tamanh Q. Duong, P.E., MBA  
LCDR, U.S. Navy Civil Engineer Corps  
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DSN: (315) 225-4712, FAX: x6743  
Commercial (CONUS) 011-81-3117-55-4712  
Commercial (JAPAN) 03117-55-4712  
IIPR: (b)(6)  
SIPR: (b)(6)

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

From: Harbor, Tim W Lt Col USAF USFJ J43  
Sent: Tuesday, March 15, 2011 5:22 AM  
To: McDaniel, Everett K COL USA USFJ J4  
Cc: USFJ-CAT-J4; USFJ-JLOC-J43  
Subject: RE: Pumper Truck Status

Sir,  
Update--At 0430, the GOJ called and said we could press with the Negishi fire truck--coordinated with Yokosuka Fire Chief and the fire truck with police escort is enroute to Fukushima at this time. ETA due to traffic is around 1030hrs.  
Respectfully,  
Tim

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

From: Harbor, Tim W Lt Col USAF USFJ J43  
Sent: Tuesday, March 15, 2011 3:12 AM  
To: McDaniel, Everett K COL USA USFJ J4  
Cc: Wilken, Curtis L LtCol USAF USFJ J4; Williams, Joseph V LTC USA USFJ J4  
Subject: Pumper Truck Status

AAA A/32

Sir,  
Current fire truck status:

1. Yokota: One P-22 pump truck (750 gallon per minute capability/500 gallon capacity) with all required hoses and driver/trainer left Yokota AB at 1240L with a police escort and an 0340 ETA. Have asked for a status update when they arrive at the rally point. They will meet up with Lt Col Yato (JSDF contact) and the Tokyo Power personnel to do training on truck operation. Rally point is Funabikihara (about 1 hour away from Fukushima Plant). After training at the rally point, our two personnel will be returning to Yokota AB via GOV that followed them up.

2. Negishi (Yokohama): One P-22 pump truck (same capabilities) and driver/trainer is approved/standing by at Negishi as of 0220. MOFA POC (Mr. Kido, working with Mr. Nagano--03-5501-8282) called me at 0230 and asked that we stand by as Tokyo Power is not yet ready to accept another truck at this time. They will call the J4 CAT again and advise when they are ready to receive.

Based on the current request from MOFA to standby, am not pursuing further trucks at this time, but will provide a list of pumper truck capabilities by component to the J5 as soon as I have a complete list (currently awaiting CNFJ/MARFORJ inputs)--shooting for 0600.

Have the components looking into other types of pumps as well--no update at this time, but continuing to look. Will advise as I get new information.

Respectfully,  
Tim

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

From: McDaniel, Everett K COL USA USFJ J4  
Sent: Monday, March 14, 2011 11:53 PM  
To: USFJ-CAT-J4; Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ J43  
Subject: Trucks

Truck leave Yokosuka yet?

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

From: Duong, Tamanh Q LCDR USN USFJ J4 On Behalf Of USFJ-CAT-J4  
Sent: Monday, March 14, 2011 11:50 PM  
To: McDaniel, Everett K COL USA USFJ J4; Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ J43; USFJ-CAT-J4  
Subject: RE: Truck leave Yokota yet?

Sir,

Fire truck is at the front gate. Police escort should be there within  
10  
mins.  
Will advise when it departs.

Thanks!

J4 CAT

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

From: McDaniel, Everett K COL USA USFJ J4

Sent: Monday, March 14, 2011 11:48 PM

To: Hiter, Charles L. MAJ USAR USFJ J2X; Harbor, Tim W Lt Col USAF USFJ  
J43;

Duong, Tamanh Q LCDR USN USFJ J4; USFJ-CAT-J4

Subject: Truck leave Yokota yet?

Everett K. McDaniel

Colonel, US Army

Director, Logistics and Installations

USFJ

DSN: (325) 225-4713/4705

Commercial from the US: 011-81-31175-54713

DSN Fax: 225-4709

NIPR: (b)(6)

SIPR: (b)(6)

**From:** Haney, Catherine  
**To:** Leeds, Eric; Grobe, Jack; Boger, Bruce  
**Subject:** 2 From NMSS available with BWR Experience  
**Date:** Monday, March 14, 2011 8:15:00 AM

---

Lawrence is a licensed operator on this type of plant (b)(6). He also taught degraded core cooling post TMI.

Aby has severe accident experience for this type of unit.

I don't know if I'll be able to listen in to the 9:30 call. Just wanted you to know both are available if you need them to go to Japan.

AAA A / 33

Wittick, Brian

---

**From:** Wittick, Brian  
**Sent:** Wednesday, April 20, 2011 7:03 PM  
**To:** Huffert, Anthony; Gepford, Heather; Meighan, Sean  
**Cc:** Reynolds, Steven  
**Subject:** FW: NOAA/JAMSTEC cooperation + U.S. NAVY & JSDF?

A good topic to broach on tomorrow's trip as to how the Yukota folks intend to obtain, incorporate and disseminate the subject data.

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

**From:** Basalla, Suzanne I [<mailto:BasallaSI@state.gov>]  
**Sent:** Wednesday, April 20, 2011 6:39 PM  
**To:** Aaron Held; Aaron Held1; Aaron Leong; Abbot, Charles Spencer (TDY/DAO); Alapp; Alfred Katsuma; Andrae Brooks; Angelov, Bonnie A; Audu Besmer; Berger, William (RDMA/OFDA); Blake Crowe; Wittick, Brian; Calma, Neil R; Cherry, Ronald C; Cipullo, Timothy L; Cooper, Justin D; Dirk Foster; Duncan, Aleshia D; Ed Brown; Eric Corbett; Gabor, Robert R; Hefner, Timothy B; Helen Peterson; Howard, E. Bruce; Jeffrey Wiltse; Joseph Roberts; Joseph Roberts1; Katz, Steven (DCHA/OFDA); Keith Simmers; Ken Spurlock; Lapp, Alison K; Michael Weisz; Miki Huntington; Reid Tanaka; Suzanne Basalla; Thomas Roark; Wall, Marc M; White, James R (TDY/DAO); Young, Joseph M; Zumwalt, James P  
**Subject:** FW: NOAA/JAMSTEC cooperation + U.S. NAVY & JSDF?

FYI -- looks like we'll have some NOAA folks here next week to help us move forward on these issues.

SBU

This email is UNCLASSIFIED

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

**From:** Zumwalt, James P  
**Sent:** Thursday, April 21, 2011 7:00 AM  
**To:** Basalla, Suzanne I  
**Subject:** Fw: NOAA/JAMSTEC cooperation + U.S. NAVY & JSDF?

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

**From:** Brendel, Brian D  
**To:** Zumwalt, James P; Wall, Marc M; Hinds, Lynda J; Cipullo, Timothy L; Howard, E. Bruce  
**Cc:** Deming, Rust M; Schuchat, Simon J; Dresser, Heather L (EAP/J)  
**Sent:** Wed Apr 20 16:39:31 2011  
**Subject:** RE: NOAA/JAMSTEC cooperation + U.S. NAVY & JSDF?

Dear Tokyo Colleagues,

NOAA intends to send a group to Japan next week to work with JAMSTEC to gather radiological readings from ocean water. Director Turner from NOAA said they have an MOU with JAMSTEC to cooperate and share data, but the specifics need to be scoped out.

I presume the US Navy and/or JSDF also want to make sure they all have access to the best data. NOAA has pledge to keep EAP/J and OES in the loop.

.....  
Brian Brendel \*\* EAP / Japan Desk \*\* [BrendelBD@state.gov](mailto:BrendelBD@state.gov) \*\* Office: 202.736.7050 \*\* Cell: 202.436.5220

SBU

This email is UNCLASSIFIED

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

From: James Turner [<mailto:James.Turner@noaa.gov>]

Sent: Wednesday, April 20, 2011 4:20 PM

To: Brendel, Brian D

Cc: [Allison.Reed@noaa.gov](mailto:Allison.Reed@noaa.gov); John Cortinas; Craig McLean; [info.japan@noaa.gov](mailto:info.japan@noaa.gov)

Subject: Re: question/cooperation

Yesterday, I also reached out to Amb. Dave Balton (State/OES). He spoke with my Deputy this morning. He is fine with us assisting the Japanese modelers. He did want us to make sure we kept Liz Tirpak from his office in the loop for coordination purposes and we will do that. All of us want to make sure we are coordinated. A group will be going to Japan next week to scope out the details, e.g. data, of how we can/will respond to the Japanese request for assistance.

On 4/20/2011 3:54 PM, Brendel, Brian D wrote:

> Dear Director Turner,

>

> I had a few follow up questions from our phone call yesterday.

>

> While it is great that NOAA-JAMSTEC cooperation seems to be in the

> works, I wondered about a few points.

>

> Will NOAA be sharing data with JAMSTEC, the JSDF and U.S. Navy?

> Will data-sharing be a 2-way street for each party involved?

>

> The U.S. Navy is collecting data (presumable in locations with some

> overlap as NOAA's proposed testing areas and with equipment that has

> some overlap in capabilities) as well. Will you cross check results

> with the U.S. Navy?

>

> .....

> Brian Brendel

> Department of State

> EAP / Japan Desk

> Trade Policy & Maritime Issues

> [BrendelBD@state.gov](mailto:BrendelBD@state.gov)

> Office: 202.736.7050

> Cell: (b)(6)

>

> SBU

> This email is UNCLASSIFIED

>

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

> From: James Turner [<mailto:James.Turner@noaa.gov>]

> Sent: Tuesday, April 19, 2011 4:44 PM

> To: EAP-J-Office-DL

> Cc: 'Allison.Reed@noaa.gov'

> Subject: question/cooperation

>

> I am the Director of Office of International Affairs at NOAA. I have a

>



- .> process question regarding possible cooperation on radiation
- > monitoring in the ocean and seafood safety. Is there a name and phone
- > number for a contact to discuss this ?? Thanks
- >
- >
- >

**From:**  
**To:**

LIA03 Hgc  
Zerr, (b)(6)  
(b)(6)

**Cc:**

**Subject:** RE: 9 NRC people to Japan ASAP  
**Date:** Monday, March 14, 2011 5:32:26 PM

---

What is the flight info, I need to communicate this to the NRC delegation.

Andrea

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

**From:** (b)(6)  
**Sent:** Monday, March 14, 2011 5:32 PM  
**To:** (b)(6)  
(b)(6)

**Subject:** Re: 9 NRC people to Japan ASAP

Great news Jack.

Thanks to DOD and sorry for the fire drill.  
TJ

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

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

AAAA/35

(b)(6)

Sent: Mon Mar 14 17:29:07 2011  
Subject: RE: 9 NRC people to Japan ASAP

TJ,

Our friends at USAID are working on an arrangement that should have the NRC delegation leave tonight (23:00 EDT, or something like that). As such, this looks like our best option. Many thanks to you and the DOD folks for the quick turnaround, but it looks like we found a way to make commercial work.

Jack Ramsey

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

From: (b)(6)

Sent: Monday, March 14, 2011 5:11 PM

To: (b)(6)

(b)(6)

Subject: Re: 8 NRC people to Japan ASAP

If I did my conversion right it looks like we will not make the Nellis flight.

So I would ask the NRC to get their nine to DC as soon as possible. If my expedia search is right I think they all could make it here by about 2200 assuming they all close to their airports. NRC-pls let us know when you can get everyone here.

From there we will see what DOD can support out of the DC area. Under this model we will be positioned for the comm air option and anything DOD can support.

TJ

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

From: Tidd, Kurt W RADM JCS VDJ-3 (b)(6)

To: (b)(6)

(b)(6)

(b)(6)

Sent: Mon Mar 14 16:51:00 2011

Subject: RE: 8 NRC people to Japan ASAP

TJ -- ensure ALCON know/understand that this TRANSCOM planning remains TENTATIVE until positively confirmed. A lot of moving pieces here, so we MOST STRONGLY recommend NRC retain their commercial air plans. It will be a challenge for NRC folks to get to Vegas, then over to Nellis, and we do not intend to hold up the flight for them. For the moment, here is what the DOE lift looks like:

Mission Number: PJM112471073-

C-17 alert NLT 14/1800Z

Dep Travis AFB CA (KSUU) 14/2100Z

Arr/Dep Nellis AFB NV (KLSV) - 14/2200Z - 15/0045Z

Arr/Dep Elmendorf AFB for gas (PAED) - 15/0545Z - 15/0730Z

Arr Yokota AFB Japan (RJTY) - 15/1545Z

Please stress again -- this flight sked remains TENTATIVE!! We've got a bunch of folks scrambling hard to make it happen, but please remain flexible.

\*\*\*\*\*

RADM Kurt W. Tidd, USN

Vice Director for Operations, J3

3000 Joint Staff Pentagon

Rm 2D882

Washington DC 20318-3000

Tel: (703) 695-0987

DSN: 225-0987

Fax: (703) 614-1755

Red Switch: (b)(6)

Blackberry: (b)(6)

Email: (b)(6)

SIPR: (b)(6)

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

From: Zerr, Thomas J. (b)(6)

Sent: Monday, March 14, 2011 4:42 PM

To: Tidd, Kurt W RADM JCS VDJ-3; Gallagher, Shawn P.;

(b)(6); 'Jack.Ramsey@nrc.gov'; 'Charlotte.Abrams@nrc.gov';

Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; (b)(6)

(b)(6); Engle, Thomas E Lt Col JCS J3/NMCC; Severs,

Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID

W COL JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5

POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3;

Kremer, Kyle Col JCS J4 DISTRIBUTION; NMCC DDO; CMT Team Chief JCS;

Trussler, Jeffrey E CAPT JCS J3; Carey, Michael Brig Gen JCS J3/NMCC;

Basham, Steven L Col JCS J3/NMCC; (b)(6)

'Joseph.Krol@nnsa.doe.gov'; Faulkner, William BGen JCS J4 J-4 FRONT

OFFICE

Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel

R.; Duncan, Shawn H.; Bentz, Julie A.; 'Margaret.Doane@nrc.gov';

'Nader.Mamish@nrc.gov'; 'Kirk.Foggie@nrc.gov'; 'Brooke.Smith@nrc.gov';

'LIA02.Hoc@nrc.gov'; 'LIA03.Hoc@nrc.gov'; 'Jane.Marshall@nrc.gov';

'Chuck.Casto@nrc.gov'; 'John.Monninger@nrc.gov';

'Tony.Nakanishi@nrc.gov'; 'Timothy.Kolb@nrc.gov'; 'Jack.Foster@nrc.gov';

'Richard.Devercelly@nrc.gov'; 'Glenn.Tracy@nrc.gov';

'Eric.Leeds@nrc.gov'; 'Bruce.Boger@nrc.gov'; 'James.Trapp@nrc.gov';

'Anthony.Ulises@nrc.gov'; 'Mary.Carter@nrc.gov';

'Danielle.Emche@nrc.gov'; 'Andrea.Jones2@nrc.gov';

'Jennifer.Schwartzman@nrc.gov'; 'William.Cook@nrc.gov'; Baden, Tim;

Dolan, Edward M.; Donnell, Charles D.; Gelman, Jeffrey D.

Subject: Re: 8 NRC people to Japan ASAP

Thanks Admiral.

NRC-Once we get TRANSCOM flight data we will need to move quick to see if we can get your nine to the launch point in time.

As previously stated please keep planning to execute the commercial flight option if the mil air ends up not working out.

TJ

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

From: (b)(6)

To: (b)(6)

(b)(6)

(b)(6)

Sent: Mon Mar 14 16:32:13 2011  
Subject: RE: 8 NRC people to Japan ASAP

TJ -- we're moving DOE AMS and Consequence Management teams as quickly as we can spool up the lift; have looped in our POC's on the cc line. Would not recommend delaying any flights while we await the NRC personnel, but if there's room, and if they can get themselves to the lift site (Nellis AFB - Las Vegas), we have SECDEF authorization to carry non-DOD personnel in support of this crisis.

JLOC -- As soon as we have the TRANSCOM flight info, please push toalcon and we'll see if we can provide an alternative to commercial air. Again, unless otherwise directed, recommend we not hold up the DOE flights, but if we can kill two birds, let's do it.

\*\*\*\*\*

RADM Kurt W. Tidd, USN

Vice Director for Operations, J3  
3000 Joint Staff Pentagon  
Rm 2D882  
Washington DC 20318-3000  
Tel: (703) 695-0987  
DSN: 225-0987  
Fax: (703) 614-1755  
Red Switch: (b)(6)  
Blackberry: (b)(6)  
Email: (b)(6)  
STPR: (b)(6)

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

From: Gallagher, Shawn P. (b)(6)  
Sent: Monday, March 14, 2011 4:05 PM  
To: 'Clark, Ngoc CIV OSD POLICY'; 'Ramsey, Jack'; Abrams, Charlotte;  
Zerr, Thomas J.; Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR;  
Hulley, Paul, SES, OSD-POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd,  
Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul  
J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL  
JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5  
POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3;  
Kremer, Kyle Col JCS J4 DISTRIBUTION  
Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel  
R.; Duncan, Shawn H.; Bentz, Julie A.; Doane, Margaret; Mamish, Nader;  
Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03 Hoc; Marshall, Jane;  
Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster,  
Jack; Devercelly, Richard; Tracy, Glenn; Leeds, Eric; Boger, Bruce;  
Trapp, James; Ulises, Anthony; Carter, Mary; Emche, Danielle; Jones,  
Andrea; Schwartzman, Jennifer; Cook, William; Baden, Tim; Dolan, Edward  
M.; Donnell, Charles D.; Gelman, Jeffrey D.; Hepburn, Matthew; Kamoie,  
Brian E.; Kern, Dab; Kim, Paul; Landau, Zachary L.; Marcozzi, David E.;  
Mecher, Carter E.; Panketh, Eric J. (NSC); Reed, Richard A.; Tribble,  
Ahsha; Zelvin, Lawrence K.; Holgate, Laura  
Subject: RE: 8 NRC people to Japan ASAP

Again looping in resilience here at NSC. Thanks all!

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

From: Clark, Ngoc CIV OSD POLICY [mailto:(b)(6)]  
Sent: Monday, March 14, 2011 3:58 PM  
To: 'Ramsey, Jack'; Abrams, Charlotte; Zerr, Thomas J.; Zenner, Todd  
LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY;  
Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle,  
Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN  
Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN,  
ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE  
CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3; Kremer, Kyle Col JCS J4  
DISTRIBUTION  
Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel  
R.; Duncan, Shawn H.; Gallagher, Shawn P.; Bentz, Julie A.; Doane,  
Margaret; Mamish, Nader; Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03  
Hoc; Marshall, Jane; Casto, Chuck; Monninger, John; Nakanishi, Tony;  
Kolb, Timothy; Foster, Jack; Devercelly, Richard; Tracy, Glenn; Leeds,  
Eric; Boger, Bruce; Trapp, James; Ulises, Anthony; Carter, Mary; Emche,  
Danielle; Jones, Andrea; Schwartzman, Jennifer; Cook, William  
Subject: RE: 8 NRC people to Japan ASAP

Looping in J-4 colleagues with the details of the request.

Ms. Ngoc Clark  
Foreign Affairs Specialist

Humanitarian Assistance, Disaster Relief, and Global Health Directorate  
Office of Partnership Strategy & Stability Operations (PSO)  
OUSD(Policy) - SO/LIC & IC  
5C653  
703-692-0122

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

From: Ramsey, Jack [mailto:Jack.Ramsey@nrc.gov]  
Sent: Monday, March 14, 2011 3:54 PM  
To: Abrams, Charlotte; (b)(6) Zenner, Todd LCDR  
JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY; Clark,  
Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM  
JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS  
J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5  
ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS  
J-3; NJOIC BATTLE CAPTAIN JCS J3  
Cc: (b)(6); 'TaskForce1Mailbox@state.gov';  
(b)(6)  
(b)(6) Doane,  
Margaret; Mamish, Nader; Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03  
Hoc; Marshall, Jane; Casto, Chuck; Monninger, John; Nakanishi, Tony;  
Kolb, Timothy; Foster, Jack; Devercelly, Richard; Tracy, Glenn; Leeds,  
Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche,  
Danielle; Jones, Andrea; Schwartzman, Jennifer; Cook, William  
Subject: RE: 8 NRC people to Japan ASAP

All,

As the message below indicates, we now have an additional person (for a  
total of 9) from our regional office outside Philadelphia.

Jack Ramsey

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

From: Abrams, Charlotte  
Sent: Monday, March 14, 2011 3:52 PM  
To: (b)(6)  
(b)(6)

Subject: Re: 8 NRC people to Japan ASAP

Also Bill Cook from RI



Sent from my nrc blackberry. Charlotte Abrams (b)(6)

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

From: (b)(6)

To: (b)(6)

(b)(6)

Sent: Mon Mar 14 15:48:03 2011  
Subject: RE: 8 NRC people to Japan ASAP

All,

To summarize, the Nuclear Regulatory Commission has been requested by the Japanese government to supplement our staffing at the US Embassy in Tokyo (we currently have two staff there). In response, we have identified 8 NRC staff for this. We have 6 staff from WashDC (John Monninger, Tony Nakanishi, Tim Kolb, Jack Foster, Brooke Smith and Kirk Foggie), 1 from Atlanta (Chuck Casto) and 1 from Chattanooga (Richard Devercelly). The earliest commercial flights that are available are around 13:00 EDT tomorrow (Tuesday). Obviously, we'd like to get them there earlier if at all possible. This is what prompted the question on whether DOD and/or other appropriate assets might be available.

For coordination purposes, the International Liaison Team at NRC's Emergency Operations Center will be lead for this. E-mail addresses there are lia02.hoc@nrc.gov and lia03.hoc@nrc.gov, with direct phone line of (301) 816-5192 (this is a recorded line). In the event of any communication issues, please call the main number for NRC's Emergency Operation Center on (301) 816-5100 and ask for International Liaison. Please also note that the NRC team has been cc'ed on this message.

Thanks to everyone for looking at this.

Jack Ramsey

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

From: Zerr, Thomas J. [mailto:(b)(6)]  
Sent: Monday, March 14, 2011 3:25 PM  
To: Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3  
Cc: Ramsey, Jack; Wormuth, Christine; TaskForce1Mailbox@state.gov; Russel, Daniel R.; Duncan, Shawn H.; Gallagher, Shawn P.; Bentz, Julie A.  
Subject: RE: 8 NRC people to Japan ASAP

+TF-1 mailbox for appropriate State loop in.

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

From: Zerr, Thomas J. [mailto:Thomas (b)(6)]  
Sent: Monday, March 14, 2011 2:58 PM  
To: Hulley, Paul, SES, OSD-POLICY; Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3  
Cc: 'Ramsey, Jack'  
Subject: FW: 8 NRC people to Japan ASAP

All-

I have discussed this on the phone with Paul and Todd. Needless to say the request is hot and getting big brains on the reactor issues out there soonest is critical given the situation at the plants.

Please inform if this request should go via a different path you can identify for me; or if this group can facilitate getting a DOD response to this request.

Jack-Please confirm the status of passports on these folks. Also I would continue to pursue any other transportation options outside of DOD so we don't lose any time.

TJ

From: Gallagher, Shawn P.  
Sent: Monday, March 14, 2011 2:46 PM  
To: 'Ramsey, Jack'; Zerr, Thomas J.; Bentz, Julie A.  
Subject: 8 NRC people to Japan ASAP

Jack, per our conversation TJ is calling over to DOD. Wanted to connect everyone via email so we can report status.

Julie, to bring you up to speed, the Japanese requested more NRC support and NRC identified 8 people to go on an immediate basis. Earliest commercial flight isn't until 1:00 tomorrow. TJ is finding out if there a mil air option.

Locations of individuals are 6 in DC, 1 in Atlanta, 1 in Chattanooga. All are currently packing and awaiting orders

**From:** Trapp, James  
**To:** alex.robinson\_contractor@dtra.mil  
**Cc:** McGinty, Tim  
**Subject:** FW: 9 NRC people to Japan ASAP  
**Date:** Monday, March 14, 2011 5:59:12 PM

---

Help is on the way. We should be able to support your needs. Thanks

**From:** (b)(6)  
**Sent:** Monday, March 14, 2011 5:31 PM  
**To:** (b)(6)  
(b)(6)

**Subject:** Re: 9 NRC people to Japan ASAP

Great news Jack.

Thanks to DOD and sorry for the fire drill.  
TJ

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

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

AAAA/36

(b)(6)

Sent: Mon Mar 14 17:29:07 2011  
Subject: RE: 9 NRC people to Japan ASAP

TJ,

Our friends at USAID are working on an arrangement that should have the NRC delegation leave tonight (23:00 EDT, or something like that). As such, this looks like our best option. Many thanks to you and the DOD folks for the quick turnaround, but it looks like we found a way to make commercial work.

Jack Ramsey

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

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Sent: Monday, March 14, 2011 5:11 PM

To: (b)(6)

(b)(6)

Subject: Re: 8 NRC people to Japan ASAP

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TJ

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

From: (b)(6)

To: (b)(6)

(b)(6)

(b)(6)

Sent: Mon Mar 14 16:51:00 2011  
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Please stress again -- this flight sked remains TENTATIVE!! We've got a bunch of folks scrambling hard to make it happen, but please remain flexible.

\*\*\*\*\*

RADM Kurt W. Tidd, USN  
Vice Director for Operations, J3  
3000 Joint Staff Pentagon  
Rm 2D882  
Washington DC 20318-3000  
Tel: (703) 695-0987  
DSN: 225-0987  
Fax: (703) 614-1755  
Red Switch: (b)(6)  
Blackberry: (b)(6)  
Email: (b)(6)  
SIPR: (b)(6)

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

From: Zerr, Thomas J (b)(6)  
Sent: Monday, March 14, 2011 4:42 PM  
To: Tidd, Kurt W RADM JCS VDJ-3; Gallagher, Shawn P.;  
(b)(6) 'Jack.Ramsey@nrc.gov'; 'Charlotte.Abrams@nrc.gov';  
Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; (b)(6)  
(b)(6); Engle, Thomas E Lt Col JCS J3/NMCC; Severs,  
Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID  
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POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3;  
Kremer, Kyle Col JCS J4 DISTRIBUTION; NMCC DDO; CMT Team Chief JCS;  
Trussler, Jeffrey E CAPT JCS J3; Carey, Michael Brig Gen JCS J3/NMCC;  
Basham, Steven L Col JCS J3/NMCC; (b)(6)  
'Joseph.Krol@nnsa.doe.gov'; Faulkner, William BGen JCS J4 J-4 FRONT  
OFFICE  
Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel  
R.; Duncan, Shawn H.; Bentz, Julie A.; 'Margaret.Doane@nrc.gov';  
'Nader.Mamish@nrc.gov'; 'Kirk.Foggie@nrc.gov'; 'Brooke.Smith@nrc.gov';  
'LIA02.Hoc@nrc.gov'; 'LIA03.Hoc@nrc.gov'; 'Jane.Marshall@nrc.gov';  
'Chuck.Casto@nrc.gov'; 'John.Monninger@nrc.gov';  
'Tony.Nakanishi@nrc.gov'; 'Timothy.Kolb@nrc.gov'; 'Jack.Foster@nrc.gov';  
'Richard.Devercelly@nrc.gov'; 'Glenn.Tracy@nrc.gov';  
'Eric.Leeds@nrc.gov'; 'Bruce.Boger@nrc.gov'; 'James.Trapp@nrc.gov';  
'Anthony.Ulises@nrc.gov'; 'Mary.Carter@nrc.gov';  
'Danielle.Emche@nrc.gov'; 'Andrea.Jones2@nrc.gov';  
'Jennifer.Schwartzman@nrc.gov'; 'William.Cook@nrc.gov'; Baden, Tim;  
Dolan, Edward M.; Donnell, Charles D.; Gelman, Jeffrey D.  
Subject: Re: 8 NRC people to Japan ASAP

Thanks Admiral.

NRC-Once we get TRANSCOM flight data we will need to move quick to see  
if we can get your nine to the launch point in time.

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flight option if the mil air ends up not working out.

TJ

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

From: (b)(6)

To: (b)(6)

(b)(6)

(b)(6)

Sent: Mon Mar 14 16:32:13 2011  
Subject: RE: 8 NRC people to Japan ASAP

TJ -- we're moving DOE AMS and Consequence Management teams as quickly as we can spool up the lift; have looped in our POC's on the cc line. Would not recommend delaying any flights while we await the NRC personnel, but if there's room, and if they can get themselves to the lift site (Nellis AFB - Las Vegas), we have SECDEF authorization to carry non-DOD personnel in support of this crisis.

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\*\*\*\*\*

RADM Kurt W. Tidd, USN  
Vice Director for Operations, J3  
3000 Joint Staff Pentagon  
Rm 2D882  
Washington DC 20318-3000  
Tel: (703) 695-0987  
DSN: 225-0987  
Fax: (703) 614-1755  
Red Switch: (b)(6)  
Blackberry: (b)(6)  
Email: (b)(6)  
SIPR: (b)(6)



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

From: Gallagher, Shawn P. [mailto:(b)(6)]  
Sent: Monday, March 14, 2011 4:05 PM  
To: 'Clark, Ngoc CIV OSD POLICY'; 'Ramsey, Jack'; Abrams, Charlotte;  
Zerr, Thomas J.; Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR;  
Hulley, Paul, SES, OSD-POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd,  
Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul  
J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL  
JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5  
POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3;  
Kremer, Kyle Col JCS J4 DISTRIBUTION  
Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel  
R.; Duncan, Shawn H.; Bentz, Julie A.; Doane, Margaret; Mamish, Nader;  
Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03 Hoc; Marshall, Jane;  
Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster,  
Jack; Devercelly, Richard; Tracy, Glenn; Leeds, Eric; Boger, Bruce;  
Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones,  
Andrea; Schwartzman, Jennifer; Cook, William; Baden, Tim; Dolan, Edward  
M.; Donnell, Charles D.; Gelman, Jeffrey D.; Hepburn, Matthew; Kamoie,  
Brian E.; Kern, Dab; Kim, Paul; Landau, Zachary L.; Marcozzi, David E.;  
Mecher, Carter E.; Panketh, Eric J. (NSC); Reed, Richard A.; Tribble,  
Ahsha; Zelvín, Lawrence K.; Holgate, Laura  
Subject: RE: 8 NRC people to Japan ASAP

Again looping in resilience here at NSC. Thanks all!

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

From: Clark, Ngoc CIV OSD POLICY [mailto:(b)(6)]  
Sent: Monday, March 14, 2011 3:58 PM  
To: 'Ramsey, Jack'; Abrams, Charlotte; Zerr, Thomas J.; Zenner, Todd  
LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY;  
Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle,  
Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN  
Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN,  
ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE  
CAPTAIN JCS J3; NJOIC JLOC OFFICER JCS J3; Kremer, Kyle Col JCS J4  
DISTRIBUTION  
Cc: Wormuth, Christine; 'TaskForce1Mailbox@state.gov'; Russel, Daniel  
R.; Duncan, Shawn H.; Gallagher, Shawn P.; Bentz, Julie A.; Doane,  
Margaret; Mamish, Nader; Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03  
Hoc; Marshall, Jane; Casto, Chuck; Monninger, John; Nakanishi, Tony;  
Kolb, Timothy; Foster, Jack; Devercelly, Richard; Tracy, Glenn; Leeds,  
Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche,  
Danielle; Jones, Andrea; Schwartzman, Jennifer; Cook, William  
Subject: RE: 8 NRC people to Japan ASAP

Looping in J-4 colleagues with the details of the request.

Ms. Ngoc Clark  
Foreign Affairs Specialist

Humanitarian Assistance, Disaster Relief, and Global Health Directorate  
Office of Partnership Strategy & Stability Operations (PSO)  
OUSD(Policy) - SO/LIC & IC  
5C653  
703-692-0122

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

From: Ramsey, Jack [mailto:Jack.Ramsey@nrc.gov]

Sent: Monday, March 14, 2011 3:54 PM

To: Abrams, Charlotte; 'Thomas\_J\_Zerr@nss.eop.gov'; Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3

Cc: (b)(6); 'TaskForce1Mailbox@state.gov';

(b)(6)

(b)(6)

Doane, Margaret; Mamish, Nader; Foggie, Kirk; Smith, Brooke; LIA02 Hoc; LIA03 Hoc; Marshall, Jane; Casto, Chuck; Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Devercelly, Richard; Tracy, Glenn; Leeds, Eric; Boger, Bruce; Trapp, James; Ulses, Anthony; Carter, Mary; Emche, Danielle; Jones, Andrea; Schwartzman, Jennifer; Cook, William  
Subject: RE: 8 NRC people to Japan ASAP

All,

As the message below indicates, we now have an additional person (for a total of 9) from our regional office outside Philadelphia.

Jack Ramsey

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

From: (b)(6)

Sent: Monday, March 14, 2011 3:52 PM

To: (b)(6)

(b)(6)

Subject: Re: 8 NRC people to Japan ASAP

Also Bill Cook from RI

Sent from my nrc blackberry. Charlotte Abrams (b)(6)

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

From: Ramsey, Jack

To: (b)(6)

(b)(6)

(b)(6)

Sent: Mon Mar 14 15:48:03 2011  
Subject: RE: 8 NRC people to Japan ASAP

All,

To summarize, the Nuclear Regulatory Commission has been requested by the Japanese government to supplement our staffing at the US Embassy in Tokyo (we currently have two staff there). In response, we have identified 8 NRC staff for this. We have 6 staff from WashDC (John Monninger, Tony Nakanishi, Tim Kolb, Jack Foster, Brooke Smith and Kirk Foggie), 1 from Atlanta (Chuck Casto) and 1 from Chattanooga (Richard Devercelly). The earliest commercial flights that are available are around 13:00 EDT tomorrow (Tuesday). Obviously, we'd like to get them there earlier if at all possible. This is what prompted the question on whether DOD and/or other appropriate assets might be available.

For coordination purposes, the International Liaison Team at NRC's Emergency Operations Center will be lead for this. E-mail addresses there are lia02.hoc@nrc.gov and lia03.hoc@nrc.gov, with direct phone line of (301) 816-5192 (this is a recorded line). In the event of any communication issues, please call the main number for NRC's Emergency Operation Center on (301) 816-5100 and ask for International Liaison. Please also note that the NRC team has been cc'ed on this message.

Thanks to everyone for looking at this.

Jack Ramsey

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

From: Zerr, Thomas J. (b)(6)

Sent: Monday, March 14, 2011 3:25 PM

To: Zenner, Todd LCDR JCS J5 DDASIA NEAD NE ASIA BR; Hulley, Paul, SES, OSD-POLICY; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY; Tidd, Kurt W RADM JCS VDJ-3; Engle, Thomas E Lt Col JCS J3/NMCC; Severs, Paul J CAPT JCS J5 AP; NEWELL, JOHN Brig Gen JCS J5 ASIADD; SHIN, DAVID W COL JCS J5 ASIA NEA; BROWN, ANGELIQUE P Maj JCS J5 ASIA NEA; NJOIC J-5 POLICY JCS J-3; NJOIC BATTLE CAPTAIN JCS J3

Cc: Ramsey, Jack; Wormuth, Christine; TaskForce1Mailbox@state.gov; Russel, Daniel R.; Duncan, Shawn H.; Gallagher, Shawn P.; Bentz, Julie A.

Subject: RE: 8 NRC people to Japan ASAP

+TF-1 mailbox for appropriate State loop in.

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

From: Zerr, Thomas J. [mailto:(b)(6)]  
Sent: Monday, March 14, 2011 2:58 PM  
To: Hulley, Paul, SES, OSD-POLICY; Zenner, Todd LCDR JCS J5 DDASIA NEAD  
NE ASIA BR; Clark, Ngoc CIV OSD POLICY; Trigilio, John, CIV, OSD-POLICY;  
Tidd, Kurt W RADM JCS VDJ-3  
Cc: 'Ramsey, Jack'  
Subject: FW: 8 NRC people to Japan ASAP

All-

I have discussed this on the phone with Paul and Todd. Needless to say the request is hot and getting big brains on the reactor issues out there soonest is critical given the situation at the plants.

Please inform if this request should go via a different path you can identify for me; or if this group can facilitate getting a DOD response to this request.

Jack-Please confirm the status of passports on these folks. Also I would continue to pursue any other transportation options outside of DOD so we don't lose any time.

TJ

From: Gallagher, Shawn P.  
Sent: Monday, March 14, 2011 2:46 PM  
To: 'Ramsey, Jack'; Zerr, Thomas J.; Bentz, Julie A.  
Subject: 8 NRC people to Japan ASAP

Jack, per our conversation TJ is calling over to DOD. Wanted to connect everyone via email so we can report status.

Julie, to bring you up to speed, the Japanese requested more NRC support and NRC identified 8 people to go on an immediate basis. Earliest commercial flight isn't until 1:00 tomorrow. TJ is finding out if there a mil air option.

Locations of individuals are 6 in DC, 1 in Atlanta, 1 in Chattanooga.  
All are currently packing and awaiting orders

Wittick, Brian

**From:** Wittick, Brian  
**Sent:** Wednesday, April 20, 2011 4:18 AM  
**To:** Reynolds, Steven  
**Subject:** FW: NRC Motor Pool Usage

**Importance:** High

FYI

---

**From:** McKenna, Surin (DCHA/OFDA) [mailto:smckenna@ofda.gov]  
**Sent:** Wednesday, April 20, 2011 4:17 AM  
**To:** Casto, Chuck; (b)(6)  
**Cc:** Wittick, Brian; anakatsuma@ofda.gov; wberger@usaid.gov  
**Subject:** NRC Motor Pool Usage  
**Importance:** High

Hi Mr. Casto,

Below is a list of motor pool usage from Mar 24 to Apr 4. Can I get your help in verifying if the below motor pool services are requested by your team? It would be helpful if you can identify which are the ones incurred by your office at your earliest convenience so we can reconcile the accounting with the Embassy by tomorrow.

The Embassy is charging us \$8.75 per km and we want to ensure that these charges are indeed incurred by NRC team, and not another office.

#### USAID DART MOTOR POOL WORKLOAD COUNT

Date	Passenger	Location	Km
3/24	NRC Team	Ministry of Foreign Affair	6
3/25	Mr. Cook	Yokota	130
3/25	NRC Team	TEPCO	4
3/25	Emb and NRC Staff	Yokota	123
3/26	NRC Team	Yokota	145
3/26	NRC Team	TEPCO	4
3/27	NRC Team	Yokota	111
3/28	NRC Team	Yokota	106
3/28	NRC Team	Narita Airport	153
3/29	NRC Chairman	Narita Airport	153
3/29	Emb and NRC Staff	Prime Minister Office Anex	5
3/30	Emb and NRC Staff	Prime Minister Office Anex	5
3/31	Emb and NRC Staff	Prime Minister Office Anex	5
3/31	Emb and NRC Staff	Prime Minister Office Anex	5
4/4	Emb and NRC Staff	Prime Minister Office Anex	3

Thanks,  
Surin McKenna  
Administrative Officer  
Pacific Tsunami and Japan Earthquake DART  
USAID/DCHA/OFDA  
Office: (81) (3) 3224 5016  
BB: (b)(6)  
Email: [smckenna@ofda.gov](mailto:smckenna@ofda.gov)

**From:** Trapp, James  
**To:** (b)(6)  
**Subject:** FW: Neutron Absorbers - Millenitek  
**Date:** Monday, March 14, 2011 6:20:47 PM

---

This might be the list we are working from. Thanks

---

**From:** LIA08 Hoc  
**Sent:** Monday, March 14, 2011 6:17 PM  
**To:** Trapp, James  
**Cc:** McGinty, Tim  
**Subject:** FW: Neutron Absorbers - Millenitek

Attached is the equipment list created by the RST per your request.

Milt Murray  
US NRC Operations Center

**From:** LIA06 Hoc  
**Sent:** Monday, March 14, 2011 6:11 PM  
**To:** LIA08 Hoc  
**Cc:** (b)(6)  
**Subject:** FW: Neutron Absorbers - Millenitek

Milt, please respond to Jim. Thanks, Tim

**From:** (b)(6)  
**Sent:** Monday, March 14, 2011 6:10 PM  
**To:** LIA06 Hoc  
**Subject:** Re: Neutron Absorbers - Millenitek

Can you email me the list of potential assets needed at Fukushima put together by the NRC to my nrc email account. Thanks  
Sent from my Verizon Wireless BlackBerry

---

**From:** LIA06 Hoc <LIA06.Hoc@nrc.gov>  
**Date:** Mon, 14 Mar 2011 17:59:18 -0400  
**To:** (b)(6)  
**Subject:** RE: Neutron Absorbers - Millenitek

We do have the same info. This was briefed by the RST to the ET and the Chairman recently. I do not know the "source" (of the information) yet, but I will try to find out. Tim

**From:** (b)(6)  
**Sent:** Monday, March 14, 2011 4:41 PM  
**To:** LIA06 Hoc  
**Subject:** Re: Neutron Absorbers - Millenitek

AAAA/38

Need your help - there is an email in RI the says cooling restored to all 3 reactors. Could you confirm the source and do you have the same info - I am having trouble contacting Japanese counterparts. Thanks much!

Sent from my Verizon Wireless BlackBerry

---

**From:** LIA06 Hoc <LIA06.Hoc@nrc.gov>

**Date:** Mon, 14 Mar 2011 16:37:01 -0400

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

**Cc:** LIA02 Hoc<LIA02.Hoc@nrc.gov>; RST01 Hoc<RST01.Hoc@nrc.gov>

**Subject:** RE: Neutron Absorbers - Millenitek

Jim - Hi, Tim McGinty. LT Director for the next 8 hours.

Regarding your Mark I Containment question, the RST is working it and I checked 10 minutes ago, ...I think we are getting close to a response.

Regarding the Millenitek request, the RST has higher priority action items that they are pursuing. Without a specific request for assistance from Japan in this regard, the RST is hesitant to divert the resources needed to fully evaluate the material and its suitability. I will brief the Executive Team about this request shortly, and let you know if there is anything different. Similarly, please let us know if the Embassy wants us to prioritize this activity. Tim McGinty

---

**From:** LIA02 Hoc

**Sent:** Monday, March 14, 2011 4:08 PM

**To:** LIA06 Hoc

**Subject:** FW: Neutron Absorbers - Millenitek

**Importance:** High

---

**From:** (b)(6)

**Sent:** Monday, March 14, 2011 3:55 PM

**To:** LIA02 Hoc

**Cc:** Ronald C Cherry

**Subject:** Fw: Neutron Absorbers - Millenitek

**Importance:** High

Please evaluate and determine if this material may be of assistance. Thank you!

Sent from my Verizon Wireless BlackBerry

---

**From:** "Cherry, Ronald C" <CherryRC@state.gov>

**Date:** Tue, 15 Mar 2011 04:42:43 +0900

**To:** (b)(6) Duncan,

Aleshia<Aleshia.Duncan@nuclear.energy.gov>; Duncan, Aleshia D<DuncanAD@state.gov>

**Subject:** FW: Neutron Absorbers - Millenitek

Jim, would something like this help?

This email is UNCLASSIFIED.



**From:** Hammitt, Brad [mailto:Brad.Hammitt@nnsa.doe.gov]  
**Sent:** Tuesday, March 15, 2011 4:41 AM  
**To:** NITOPS  
**Cc:** Cherry, Ronald C; Daschbach, Michael A; 'Robert.Leach@trade.gov'; 'John.Peters@trade.gov'; 'Greg.Loose@trade.gov'; 'steve.getley@millennitek.com'; 'eric.youngquist@millennitek.com'; 'shart@knoxvillechamber.com'; 'Alain.DeSarran@trade.gov'; Kilmartin, William  
**Subject:** FW: Neutron Absorbers - Millenitek  
**Importance:** High

Below is an offer to donate 20,000 boron carbide neutron absorbers from a company called, "Millennitek." This is being made through the Knoxville U.S. Export Assistance Center.

-Brad  
Country Manager  
Office of Second Line of Defense  
National Nuclear Security Administration  
Tel: (202) 586-8396

**From:** Robert Leach [mailto:Robert.Leach@trade.gov]  
**Sent:** Monday, March 14, 2011 3:24 PM  
**To:** John Peters; Greg Loose; Hammitt, Brad; Cherry, Ron; steve.getley@millennitek.com; eric.youngquist@millennitek.com  
**Cc:** Sam Hart; Alain DeSarran  
**Subject:** Neutron Absorbers - Millenitek  
**Importance:** High

John and Greg, Ron and Brad,

Millennitek, a manufacturer of advanced ceramic materials, initiated contact with me and has asked for our help to facilitate a donation of 15 barrels of approximately 20,000 Boron Carbide Neutron Absorbers. These absorbers can be dropped into the damaged reactor and will slow down the nuclear reaction to buy time for the Japan government.

Would you help us with this donation? We want to help the Japanese people to be safe from harm.

I've copied the President of Millennitek on this e-mail, Mr. Steve Getley, his co-worker Eric Youngquist and a co-worker of mine Sam Hart of the Knoxville Chamber of Commerce. I've also taken the liberty to address the two gentlemen from DOE whom Greg recently introduced and Alain DeSarran who would be aware of how the crisis has effected your staff in Japan.

Best regards, Rob Leach

---

Robert Leach, Director

Knoxville U.S. Export Assistance Center

U.S. Commercial Service

U.S. Department of Commerce

17 Market Square, #201

Knoxville, TN 37902-1405

Tel: (865) 545-4637

Fax: (865) 545-4435

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

[www.buyusa.gov/tennessee](http://www.buyusa.gov/tennessee)

My e-mail address has changed to [robert.leach@trade.gov](mailto:robert.leach@trade.gov).

**From:** LIA08 Hoc  
**To:** Trapp, James  
**Subject:** RE: Neutron Absorbers - Millenitek  
**Date:** Monday, March 14, 2011 6:30:22 PM

---

9 additional NRC people arriving early morning Wednesday (Japan time). Please copy me on all correspondence sent to the International Program Liaison Team (LIA02 and LIA03) computers.

**From:** Trapp, James  
**Sent:** Monday, March 14, 2011 6:26 PM  
**To:** LIA08 Hoc  
**Cc:** McGinty, Tim  
**Subject:** RE: Neutron Absorbers - Millenitek

Do we know the number and ETA for additional NRC staff in Japan?

---

**From:** LIA08 Hoc  
**Sent:** Monday, March 14, 2011 6:17 PM  
**To:** Trapp, James  
**Cc:** McGinty, Tim  
**Subject:** FW: Neutron Absorbers - Millenitek

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**To:** (b)(6)  
**Subject:** RE: Neutron Absorbers - Millenitek

AAAA / 39

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**To:** (b)(6)  
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**Importance:** High

---

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**Cc:** Ronald C Cherry  
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**Date:** Tue, 15 Mar 2011 04:42:43 +0900

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Alesma<Alesma.Duncan@nuclear.energy.gov>; Duncan, Aleshia D<DuncanAD@state.gov>  
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**Sent:** Tuesday, March 15, 2011 4:41 AM  
**To:** NITOPS  
**Cc:** Cherry, Ronald C; Daschbach, Michael A; 'Robert.Leach@trade.gov'; 'John.Peters@trade.gov'; 'Greg.Loose@trade.gov'; 'steve.getley@millennitek.com'; 'eric.youngquist@millennitek.com'; 'shart@knoxvillechamber.com'; 'Alain.DeSarran@trade.gov'; Kilmartin, William  
**Subject:** FW: Neutron Absorbers - Millenitek  
**Importance:** High

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Country Manager  
Office of Second Line of Defense  
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**To:** John Peters; Greg Loose; Hammitt, Brad; Cherry, Ron; steve.getley@millennitek.com; eric.youngquist@millennitek.com  
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I've copied the President of Millennitek on this e-mail, Mr. Steve Getley, his co-worker Eric

Youngquist and a co-worker of mine Sam Hart of the Knoxville Chamber of Commerce. I've also taken the liberty to address the two gentlemen from DOE whom Greg recently introduced and Alain DeSarran who would be aware of how the crisis has effected your staff in Japan.

Best regards, Rob Leach

---

Robert Leach, Director  
Knoxville U.S. Export Assistance Center  
U.S. Commercial Service  
U.S. Department of Commerce  
17 Market Square, #201  
Knoxville, TN 37902-1405  
Tel: (865) 545-4637  
Fax: (865) 545-4435  
[www.export.gov](http://www.export.gov)  
[www.buyusa.gov/tennessee](http://www.buyusa.gov/tennessee)

My e-mail address has changed to [robert.leach@trade.gov](mailto:robert.leach@trade.gov).

**Ward, Steven**

---

**From:** (b)(6)  
**Sent:** Monday, March 14, 2011 10:49 AM  
**To:** (b)(6)  
**Subject:** MOX Alert - TVA, Energy Northwest & Exploding Japanese MOX Reactor

**MOX Alert - Energy Northwest and TVA MOX Plans & Exploding Japanese MOX Reactor**

Energy Northwest, TVA and DOE officials have remained virtually silent about secret plans to use experimental weapons-grade plutonium fuel (MOX) in the Columbia Generating Station. It is noted that the Fukushima Daiichi Unit 3 exploding reactor is partially loaded with a first batch of reactor-grade MOX, thus making radioactive release potentially worse. Weapons-grade MOX has never even been tested in a boiling water reactor (BWR) and DOE is planning to use it in the GE Mark I design (Browns Ferry and Fukushima Daiichi 1-3 reactors) and GE Mark II (CGS). We will continue efforts to reveal information about this program to the US public.

Tom Clements  
Friends of the Earth

top of homepage - Salem, OR

<http://salem-news.com/>

<http://salem-news.com/articles/march142011/nuke-reactor-wash.php>

**Mar-14-2011 03:05**

**Secret Plan Exposed to Use Surplus Weapons Plutonium in Washington State Nuclear Reactor**

**Salem-News.com**

FOIA Documents Reveal Energy Northwest Plans Plutonium Fuel (MOX) Experiments While Seeking to Control Information Leaks to the Media.

See original Feb. 3, 2011 news release on Friends of the Earth website:

Secret Plan Exposed to Use Surplus Weapons Plutonium in Washington State Nuclear Reactor

<http://www.foe.org/secret-plan-exposed-use-surplus-weapons-plutonium-washington-state-nuclear-reactor>

###

distributed nationally:

from Experts Comment on U.S. Implications of Japanese Reactor Crisis

March 14, 2011

<http://www.foe.org/experts-comment-us-implications-japanese-reactor-crisis>

MOX section:

**As in Japan's Fukushima Unit 3, the use of plutonium fuel (MOX) in U.S. reactors poses special radiation and safety risks.** One of the Japanese reactors under risk of continued fuel melting or explosion is now operating for the first time with part of the core being plutonium fuel. This plutonium mixed oxide (MOX) fuel, shipped from Europe and inserted in Fukushima Unit 3 in September 2010, poses greater risks than traditional uranium fuel. MOX, made from plutonium which is capable of being used in nuclear weapons, is harder to control during reactor operation and results in a more serious radiation release in the event of an accident. The plutonium in the MOX is a result of the reprocessing of

Japanese spent fuel and that reprocessing program. MOX use has long been opposed by public interest groups due to safety, cost and non-proliferation concerns.

Tom Clements, Southeastern nuclear campaign coordinator, Friends of the Earth, said: "In the U.S., the Department of Energy is considering use of MOX fuel in the Tennessee Valley Authority's Browns Ferry reactors, of the same aging Mark I boiling water reactor design as Fukushima Unit 3. Analysis by the Tennessee Valley Authority of unsafe MOX fuel made from surplus weapons plutonium must be halted and the \$850 million request related to this in President Obama's FY2012 must be rejected. The cost of the MOX plant now under construction at the Department of Energy's Savannah River Site has skyrocketed from \$1.4 billion in FY 2004 to \$4.9 billion in FY 2009 and has become a program driven by special interests that profit from it."

See [http://www.fissilematerials.org/blog/2011/03/us\\_plutonium\\_disposition.html](http://www.fissilematerials.org/blog/2011/03/us_plutonium_disposition.html) and <http://www.foe.org/secret-plan-exposed-use-surplus-weapons-plutonium-washington-state-nuclear-reactor>.

Contact Tom Clements at 803-834-3084 (landline).



## Dentel, Glenn

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**From:** Dentel, Glenn  
**Sent:** Monday, March 14, 2011 4:10 PM  
**To:** Dean, Bill; Lew, David; Wilson, Peter; Roberts, Darrell; Collins, Daniel; Lorson, Raymond; Baker, Pamela; Walker, Tracy; Sunil.Weerakoddy@nrc.gov; Clifford, James; Miller, Chris  
**Cc:** Screnci, Diane; Sheehan, Neil; Trapp, James; McNamara, Nancy; Tifft, Doug; Hansell, Samuel; Hinson, Felicia; raymond.McKinely@nrc.gov  
**Subject:** March 14, 2011, 3:30pm Japan Nuclear Facility Updates

Update regarding Japan,

Fukushima Daiichi

Unit 1 has restored sea water injection approximately 6 hours ago

Unit 2 has sea water injection; a hole was intentionally created in the secondary containment to prevent a buildup of hydrogen and explosion as occurred at Units 1 and 3

Unit 3 has sea water injection

No spent fuel pool issues at this time.

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Chuck Casto will lead a team to support Japan and recovery efforts.

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Operations Center has developed/is developing:

- Accident progression evaluations and potential releases
- Q&As including focus on the safety of our reactors

This is a brief summary of the ongoing efforts.

Glenn Dentel, RDO

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

**From:** samuel hansell([mailto:(b)(6)])  
**Sent:** Sunday, March 13, 2011 4:55 PM  
**To:** Dean, Bill; Lew, David; Wilson, Peter; Roberts, Darrell; Collins, Daniel; Lorson, Raymond; Baker, Pamela; Walker, Tracy; Sunil.Weerakoddy@nrc.gov; Clifford, James; Miller, Chris  
**Cc:** Screnci, Diane; Sheehan, Neil; Trapp, James; McNamara, Nancy; Tifft, Doug; Dentel, Glenn; Hansell, Samuel; Hinson, Felicia; raymond.McKinely@nrc.gov  
**Subject:** March 13, 2011, 3:00pm Japan Nuclear Facility Updates

Everyone,

Jim Trapp has arrived in Tokyo at the US Ambassador Office and has successfully provided a good source of current Japanese nuclear plant data. He has a scheduled

meeting with Japanese officials in four hours to obtain additional information related to the status of the nuclear power plants.

Fukushima Daiichi Units 1 and 3 have experienced core damage; the reactor cores were completely uncovered for a period of time; reactor water level was restored on Unit 1.

Sea water injection is in progress on Unit 3, however there is no indication that the reactor water level is restored above the fuel zone level on Unit 3.

Fukushima Daiichi Unit 2 reactor condition has improved. DC electrical power has been restored and Reactor Core Isolation Cooling (RCIC) has restored water level to above the fuel zone.

Latest information has stated that the reactor vessel and primary containment structures are still intact for all of the nuclear units; there is intermittent venting of the primary

containment (to the atmosphere) to maintain internal pressure within design limits.

The radiation readings on the US aircraft carrier Ronald Reagan was measured at 0.6 millirem; this radiation reading is consistent with the containment venting operation of the Fukushima reactors.

NRC has issued a press release stating that "no harmful radiation release has reached the US; additional press releases to follow.

The NRC Chairman's Senate Hearing scheduled for this Wednesday will now focus on the Japanese nuclear plant followup actions and not the previous budget discussion topic.

An erroneous release of projected Japanese plant release plume data, using the NRC logo without our knowledge, contains information that the release rates could be as high as 75 Rem and reach Colorado, USA. There has been an attempt to remove this mis-leading and unauthorized information; however the info still may exist on some social media locations.

Next Japan update call is tonight at 11:30 pm; I plan to listen in on the call.

Thanks,  
Sam H

Tokyo Electric Power Company recent updates (recent press release details attached):

- The value of radioactive material (iodine, etc) is increasing according to the monitoring car at the site (outside).

- We are currently coordinating with the relevant authorities and departments as

to how to cool down the water in the spent nuclear fuel pool.

Daiichi Unit 2's latest report noted that the high pressure Reactor Core Isolation Cooling (RCIC) system is injecting water into the reactor vessel; however vessel level is below normal levels and this reactor could be vulnerable

to further degradation.

The US aircraft carrier Ronald Reagan is 100 miles off the coast of Japan and is

being used by helicopters for supply delivery and rescue efforts. The radiation air monitors are detecting radiation releases from the nuclear plants; when asked the HQs briefer could not provide the initial radiation levels until they're verified with backup readings. Also, the helicopters returning to the aircraft carrier were found to have low levels of contamination; again no values

of the contamination levels at this time.

The White House plans to issue a press release "soon" that will stress the need for effective communication of the Japanese nuclear plants' status; the ongoing US support for the Japanese emergency response efforts; and the fact that the US

plants are not at risk.

The NRC has prepared a press release and will release it if the White House press release does not include sufficient details about the ongoing nuclear reactor recovery efforts

**Hansell, Samuel**

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**From:** Hansell, Samuel  
**Sent:** Monday, March 14, 2011 8:30 AM  
**To:** Silk, David  
**Subject:** FW: March 13, 2011, 3:00pm Japan Nuclear Facility Updates  
**Attachments:** 2011 rev. 1 TOKYO ELECTRIC POWER COMPANY.docx

Fyi...please share with our group. DO NOT DISCUSS OUTSIDE THE NRC.

Thanks,  
Sam

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

**From:** samuel hansell [mailto:(b)(6)]  
**Sent:** Sunday, March 13, 2011 4:55 PM  
**To:** Dean, Bill; Lew, David; Wilson, Peter; Roberts, Darrell; Collins, Daniel; Lorson, Raymond; Baker, Pamela; Walker, Tracy; [Sunil.Weerakoddy@nrc.gov](mailto:Sunil.Weerakoddy@nrc.gov); Clifford, James; Miller, Chris  
**Cc:** Screnci, Diane; Sheehan, Neil; Trapp, James; McNamara, Nancy; Tifft, Doug; Dentel, Glenn; Hansell, Samuel; Hinson, Felicia; [raymond.McKinely@nrc.gov](mailto:raymond.McKinely@nrc.gov)  
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plants are not at risk.

The NRC has prepared a press release and will release if the White House press release does not include sufficient details about the ongoing nuclear reactor recovery efforts

**Press Release (Mar 13,2011)**

**Plant Status of Fukushima Daiichi Nuclear Power Station (as of 9pm March 13th)**

---

All 6 units of Fukushima Daiichi Nuclear Power Station have been shut down.

[There is no update from the previous press release.]

**Unit 1(Shut down)**

- Reactor has been shut down. However, the unit is under inspection due to the explosive sound and white smoke that was confirmed after the big quake occurred at 3:36PM.
- We have been injecting sea water and boric acid which absorbs neutron into the reactor pressure vessel.

**Unit 2(Shut down)**

- Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, measures to lowering the pressure of reactor containment vessel has been taken, under the instruction of the national government.

**Unit 3(Shut down)**

- Reactor has been shut down. However, as High Pressure Core Injection System has been automatically shut down and water injection to the reactor was interrupted, following the instruction by the government and with fully securing safety, steps to lowering the pressure of reactor containment vessel has been taken. Spraying in order to lower pressure level within the reactor containment vessel has been cancelled.
- After that, safety relief valve has been opened manually, lowering the pressure level of the reactor, which was immediately followed by injection of boric acid water which absorbs neutron, into the reactor pressure vessel.

**Unit 4 (shut down due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Unit 5 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Unit 6 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Others**

- We are currently coordinating with the relevant authorities and departments as to how to secure the cooling water to cool down the water in the spent nuclear fuel pool.
- We measured radioactive materials inside of the nuclear power station area (outdoor) by monitoring car and confirmed that radioactive materials level is higher than ordinary level. Also, the level at monitoring post is higher than ordinary level. We will continue to monitor in detail the possibility of radioactive material being discharged from exhaust stack or discharge canal. The national government has instructed evacuation for those local residents within 20km radius of the periphery because it's possible that radioactive materials are discharged.
- We will continue to take all measures to restore the security of the site and to monitor the environment of the site periphery.

## Corporate Information

### Press Releases

■ [back to page top](#)

**Press Release (Mar 13,2011)**

**Impact to TEPCO's Facilities due to Miyagiken-Oki Earthquake (as of 3:00PM)**

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Below is major impact to TEPCO's facilities due to the Miyagiken-Oki Earthquake that occurred yesterday at 2:46PM.

\*new items are underlined



[Nuclear Power Station]

Fukushima Daiichi Nuclear Power Station:

Units 1 to 3: shutdown due to earthquake

Units 4 to 6: outage due to regular inspection

\* The national government has instructed evacuation for those local residents within 20km radius of the site periphery.

**\* The value of radioactive material (iodine, etc) is increasing according to the monitoring car at the site (outside).**

\* Since the amount of radiation at the boundary of the site exceeds the limits, we decide at 4:17PM, Mar 12 and we have reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5PM, Mar 12. The radiation dose at the monitoring post decreased once. Today, the measured value revamped and the radiation dose measured at site boundary exceeded the limiting value again. As such, at 8:56AM, today, it was determined that a specific incident stipulated in article 15, clause 1 occurred and at 09:01AM, today, notified accordingly.

After that, the measured value by the monitoring car decreased once, however the value revamped and the radiation dose measured at site boundary exceeded the limitation again. As such, at 2:15PM, today, it was determined that a specific incident stipulated in article 15, clause 1 occurred and at 02:23PM, today, notified accordingly.

\* In addition, a vertical earthquake hit the site and big explosion has happened near the Unit 1 and smoke breaks out around 3:36PM, Mar 12th.

\* Unit 1: We started injection of sea water into the reactor core at 8:20PM, Mar 12 and then boric acid subsequently. We are coordinating with the relevant authorities and departments as to how to cool down water in the spent nuclear fuel pool.

\* Unit 2: Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, we are preparing to implement a measure to reduce the pressure of the reactor containment vessels under the instruction of the national government. To do so, we operated the vent valve and completed the operation at 11:00AM, Mar 13.

\* Unit 3: High Pressure Coolant Injection System automatically stopped. We endeavored to restart the Reactor Core Isolation Cooling System but failed. Also, we could not confirm the water inflow of Emergency Core Cooling System. As such, we decided at 5:10AM, Mar 12, and we reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5:58AM, Mar 13.

In order to fully secure safety, we operated the vent valve to reduce the

pressure of the reactor containment vessels (partial release of air containing radioactive materials) and completed the procedure at 8:41AM, Mar 13 (successfully completed at 09:20AM, Mar 13. After that, we began injecting water containing boric acid that absorbs neutron into the reactor by the fire pump from 09:25AM, Mar 13.

Taking account of the situation that the water level within the pressure vessel did not rise for a long time and the radiation dose is increasing, we cannot exclude the possibility that the same situation occurred at Unit 1 on Mar 12 will occur. We are considering the countermeasure to prevent that.

\* We continue endeavoring to secure the safety that all we can do and monitoring the periphery.

#### **Fukushima Daiichi Nuclear Power Station:**

Units 1 to 4: shutdown due to earthquake

\* The national government has instructed evacuation for those local residents within 10km radius of the periphery.

\* At present, we have decided to prepare implementing measures to reduce the pressure of the reactor containment vessel (partial discharge of air containing radioactive materials) in order to fully secure safety.

These measures are considered to be implemented in Units 1, 2 and 3 and accordingly, we have reported and/or noticed the government agencies concerned.

\* Unit 3 has been stopped and being "nuclear reactor cooling hot stop" at 12:15PM.

\* The operator trapped in the crane operating console of the exhaust stack was transferred to the ground at 5:13PM and confirmed the death at 5:17PM.

■ [Back to page top](#)

## **Press Releases**

**Press Release (Mar 13, 2011)**

**Plant Status of Fukushima Daiichi Nuclear Power Station (as of 2pm March 13th)**

---

**All 6 units of Fukushima Daiichi Nuclear Power Station have been shut down.**

**Unit 1(Shut down)**

- Reactor has been shut down. However, the unit is under inspection due to the explosive sound and white smoke that was confirmed after the big quake occurred at 3:36PM.
- We have been injecting sea water and boric acid which absorbs neutron into the reactor pressure vessel.

**Unit 2(Shut down)**

- Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, measures to lowering the pressure of reactor containment vessel has been taken, under the instruction of the national government.

**Unit 3(Shut down)**

- Reactor has been shut down. However, as High Pressure Core Injection System has been automatically shut down and water injection to the reactor was interrupted, following the instruction by the government and with fully securing safety, steps to lowering the pressure of reactor containment vessel has been taken. Spraying in order to lower pressure level within the reactor containment vessel has been cancelled.
- After that, safety relief valve has been opened manually, lowering the pressure level of the reactor, which was immediately followed by injection of boric acid water which absorbs neutron, into the reactor pressure vessel.
- After that, following decrease of the water level and increase of the pressure level in the reactor, injection of sea water is being attempted.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Unit 4 (shut down due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

**Unit 5 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

### **Unit 6 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

### **Casualty**

- 2 workers of cooperative firm were injured at the occurrence of the earthquake, and were transported to the hospital.
- 1 TEPCO employee who was not able to stand by his own with his hand holding left chest was transported to the hospital by an ambulance.
- 1 subcontract worker at important earthquake-proof building was unconscious and transported to the hospital by an ambulance.
- The radiation exposure of 1 TEPCO employee, who was working inside the reactor building, exceeded 100mSv and was transported to the hospital.
- 2 TEPCO employees felt bad during their operation in the central control rooms of Unit 1 and 2 while wearing full masks, and were transferred to Fukushima Daini Power Station for consultation with a medical advisor.
- 4 workers were injured and transported to the hospital after explosive sound and white smoke were confirmed around the Unit 1.
- Presence of 2 TEPCO employees at the site are not confirmed

### **Others**

- We are currently coordinating with the relevant authorities and departments as to how to cool down the water in the spent nuclear fuel pool.
- We measured radioactive materials inside of the nuclear power station area (outdoor) by monitoring car and confirmed that radioactive materials level is higher than ordinary level. Also, the level at monitoring post is higher than ordinary level. We will continue to monitor in detail the possibility of radioactive material being discharged from exhaust stack or discharge canal. The national government has instructed evacuation for those local residents within 20km radius of the periphery because it is possible that radioactive materials are discharged.
- We will continue to take all measures to restore the security of the site and to monitor the environment of the site periphery.

■ [back to page top](#)

## **Press Releases**

**Press Release (Mar 13,2011)**

**Plant Status of Fukushima Daiichi Nuclear Power Station (as of 2pm March 13th)**

---

**All 6 units of Fukushima Daiichi Nuclear Power Station have been shut down.**

**Unit 1(Shut down)**

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- We have been injecting sea water and boric acid which absorbs neutron into the reactor pressure vessel.

**Unit 2(Shut down)**

- Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, measures to lowering the pressure of reactor containment vessel has been taken, under the instruction of the national government.

**Unit 3(Shut down)**

- Reactor has been shut down. However, as High Pressure Core Injection System has been automatically shut down and water injection to the reactor was interrupted, following the instruction by the government and with fully securing safety, steps to lowering the pressure of reactor containment vessel has been taken. Spraying in order to lower pressure level within the reactor containment vessel has been cancelled.
- After that, safety relief valve has been opened manually, lowering the pressure level of the reactor, which was immediately followed by injection of boric acid water which absorbs neutron, into the reactor pressure vessel.
- After that, following decrease of the water level and increase of the pressure level in the reactor, injection of sea water is being attempted.
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**Unit 4 (shut down due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
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**Unit 5 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.

- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

#### **Unit 6 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.
- 2 TEPCO employees felt bad during their operation in the central control rooms of Unit 1 and 2 while wearing full masks, and were transferred to Fukushima Daini Power Station for consultation with a medical advisor.
- 4 workers were injured and transported to the hospital after explosive sound and white smoke were confirmed around the Unit 1.
- Presence of 2 TEPCO employees at the site are not confirmed

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[back to page top](#)

## **Press Releases**

**Press Release (Mar 13,2011)**

**Impact to TEPCO's Facilities due to Miyagiken-Oki Earthquake (as of 1:00PM)**

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Below is major impact to TEPCO's facilities due to the Miyagiken-Oki Earthquake that occurred yesterday at 2:46PM.

\*new items are underlined

[Nuclear Power Station]

Fukushima Daiichi Nuclear Power Station:

Units 1 to 3: shutdown due to earthquake

Units 4 to 6: outage due to regular inspection

\* The national government has instructed evacuation for those local residents within 20km radius of the site periphery.

\* The value of radioactive material (iodine, etc) is increasing according to the monitoring car at the site (outside).

\* Since the amount of radiation at the boundary of the site exceeds the limits, we decide at 4:17PM, Mar 12 and we have reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5PM, Mar 12. After that, the radiation dose at the monitoring post decreased once. Today, the measured value revamped and the radiation dose measured at site boundary exceeded the limiting value again. As such, at 8:56AM, today, it was determined that a specific incident stipulated in article 15, clause 1 occurred and at 09:10AM, today, notified accordingly.

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containing radioactive materials) and completed the procedure at 8:41AM, Mar 13 (successfully completed at 09:20AM, Mar 13). **After that, we began injecting water containing boric acid that absorbs neutron into the reactor by the fire pump from 09:25AM, Mar 13.**

\* We continue endeavoring to secure the safety that all we can do and monitoring the periphery.

#### **Fukushima Daini Nuclear Power Station:**

Units 1 to 4: shutdown due to earthquake

\* The national government has instructed evacuation for those local residents within 10km radius of the periphery.

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These measures are considered to be implemented in Units 1, 2 and 3 and accordingly, we have reported and/or noticed the government agencies concerned.

\* Unit 3 has been stopped and being "nuclear reactor cooling hot stop" at 12:15PM.

\* The operator trapped in the crane operating console of the exhaust stack was transferred to the ground at 5:13PM and confirmed the death at 5:17PM.

#### **[Blackout in TEPCO's Service Area]**

Total of about 0.26 million households are out of power.

Tokyo: 0

Kanagawa Pref.: 0

Tochigi Pref.: 7,366

Chiba Pref.: 301

Saitama Pref: 0

Gunma Pref.: 0

Ibaraki Pref: 247,853

Yamanashi Pref: 0

Shizuoka Pref: 0 (east of Fuji River)

Because TEPCO's facilities have been seriously damaged, power shortage may occur. TEPCO appreciates customers' cooperation in reducing electricity usage by avoiding using unnecessary lighting and electrical equipment.

Please do NOT touch cut-off electric wires.



## **Press Releases**

**Press Release (Mar 13,2011)**

**Plant Status of Fukushima Daiichi Nuclear Power Station (as of 0pm March 13th)**

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- We will continue to take all measures to restore the security of the site and to monitor the environment of the site periphery.

[Back to page top](#)

**Press Release (Mar 13, 2011)**

**Occurrence of a Specific Incident Stipulated in Article 15, Clause 1 of the Act on Special Measures Concerning Nuclear Emergency Preparedness (Extraordinary increase of radiation dose at site boundary)**

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At 2:48PM on March 11th, turbines and reactors of Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station Unit 1 (Boiling Water Reactor, rated output 460 Megawatts) and Units 2 and 3 (Boiling Water Reactor, Rated Output 784 Megawatts) that had been operating at rated power automatically shutdown due to the Miyagiken-oki Earthquake.

After the shut down, the values of radioactive materials (iodine, etc) measured by the monitoring car have been increasing. Increase in the measured value has also been recognized in one of the monitoring posts.

Furthermore, at 3:29PM, Mar 12, radiation dose measured at site boundary has exceeded the limiting value. Therefore, at 4:17PM, Mar 12, it was determined that a specific incident stipulated in article 15, clause 1 has occurred.

(as per the previous press release)

After that, the radiation dose at the monitoring post decreased once. Today, the measured value revamped and the radiation dose measured at site boundary exceeded the limiting value again. As such, at 8:56AM, today, it was determined that a specific incident stipulated in article 15, clause 1 occurred.

We will endeavor to secure the safety and alongside, continue monitoring the environment of the site periphery.

■ [back to page top](#)

## Press Releases

**Press Release (Mar 13,2011)**

**Plant Status of Fukushima Daiichi Nuclear Power Station (as of 9am March 13th)**

---

**All 6 units of Fukushima Daiichi Nuclear Power Station have been shut down.**

### **Unit 1(Shut down)**

- Reactor has been shut down. However, the unit is under inspection due to the explosive sound and white smoke that was confirmed after the big quake occurred at 3:36PM.
- We have been injecting sea water and boric acid which absorbs neutron into the reactor core.

### **Unit 2(Shut down)**

- Reactor has been shut down and Reactor Core Isolation Cooling System has been injecting water to the reactor. Current reactor water level is lower than normal level, but the water level is steady. After fully securing safety, we are preparing to implement a measure to reduce the pressure of

the reactor containment vessels under the instruction of the national government.

### **Unit 3(Shut down)**

- Reactor has been shut down. However, High Pressure Core Injection System has been automatically shut down and water injection to the reactor is currently interrupted. We are examining alternative way to inject water. Also, following the instruction by the government and with fully securing safety, steps to lowering the pressure of reactor containment vessel has been taken. Spraying in order to lower pressure level within the reactor containment vessel has been cancelled.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

### **Unit 4 (shut down due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

### **Unit 5 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

### **Unit 6 (outage due to regular inspection)**

- Reactor has been shut down and sufficient level of reactor coolant to ensure safety is maintained.
- Currently, we do not believe there is any reactor coolant leakage inside the reactor containment vessel.

### **Casualty**

- 2 workers of cooperative firm were injured at the occurrence of the earthquake, and were transported to the hospital.
- 1 TEPCO employee who was not able to stand by his own with his hand holding left chest was transported to the hospital by an ambulance.
- 1 subcontract worker at important earthquake-proof building was unconscious and transported to the hospital by an ambulance.
- The radiation exposure of 1 TEPCO employee, who was working inside the reactor building, exceeded 100mSv and was transported to the hospital.
- 4 workers were injured and transported to the hospital after explosive sound and white smoke were confirmed around the Unit 1.
- Presence of 2 TEPCO employees at the site are not confirmed

### **Others**

- We measured radioactive materials inside of the nuclear power station area (outdoor) by monitoring car and confirmed that radioactive materials level is higher than ordinary level. Also, the level at monitoring post is higher than ordinary level. We will continue to monitor in detail the possibility of radioactive material being discharged from exhaust stack or discharge canal. The national government has instructed evacuation for those local residents within 20km radius of the periphery because it's possible that radioactive materials are discharged.
- We will continue to take all measures to restore the security of the site and to monitor the environment of the site periphery.

[back to page top](#)

## Press Releases

### Press Release (Mar 13,2011)

#### Occurrence of a Specific Incident Stipulated in Article 15, Clause 1 of the Act on Special Measures Concerning Nuclear Emergency Preparedness

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At 2:46PM on March 11th 2011, turbines and reactors of Fukushima Daiichi Nuclear Power Station Unit 1 (Boiling Water Reactor, rated output 460 Megawatts) and Units 2 and 3 (Boiling Water Reactor, Rated Output 784 Megawatts) that had been operating at rated power automatically shutdown due to the Tohoku-Chihou-Taiheiyou-Oki Earthquake.

In all 3 Units, one offsite power system out of two was lost and diesel generators were automatically activated.

At 3:41PM, diesel generators failed and as a result, all the AC power was lost in Unit 1, 2 and 3. Following this incident, at 3:42PM, it was determined that a specific incident stipulated in article 15, clause 1 has occurred, and level 1 emergency status was announced, together with the notification to Ministry of Economy, Technology and Industry, Governor of Fukushima prefecture, Mayors of Okuma town and Futaba town, and related institutions in accordance with the law.

(already announced)

Afterwards, in Unit 3, High Pressure Core Injection System has been automatically shut down. Re-activation of Reactor Core Isolation Cooling System was attempted but failed, and as we were unable to confirm the level of water injection to the reactor by the Emergency Core Cooling

System, at 5:10 on March 13th, it was determined that a specific incident (Emergency Core Cooling System water injection inability) stipulated in article 15, clause 1 has occurred.

## Press Releases

Press Release (Mar 13, 2011)

Impact to TEPCO's Facilities due to Miyagiken-Oki Earthquake (as of 8AM)

Below is major impact to TEPCO's facilities due to the Miyagiken-Oki Earthquake that occurred yesterday at 2:46PM.

\*new items are underlined

[Nuclear Power Station]

Fukushima Daiichi Nuclear Power Station:

Units 1 to 3: shutdown due to earthquake

Units 4 to 6: outage due to regular inspection

- \* The national government has instructed evacuation for those local residents within 20km radius of the site periphery.
- \* The value of radioactive material (iodine, etc) is increasing according to the monitoring car at the site (outside of the site). One of the monitoring posts is also indicating higher than normal level.
- \* Since the amount of radiation at the boundary of the site exceeds the limits, we decide at 4:17PM, Mar 12 and we have reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5PM, Mar 12.
- \* In addition, a vertical earthquake hit the site and big explosion has happened near the Unit 1 and smoke breaks out around 3:36PM, Mar 12th.
- \* We started injection of sea water into the reactor core of Unit 1 at 8:20PM, Mar 12 and then boric acid subsequently.
- \* High Pressure Coolant Injection System of Unit 3 automatically stopped. We endeavored to restart the Reactor Core Isolation Cooling System but failed. Also, we could not confirm the water inflow of Emergency Core Cooling System. As such, we decided at 5:10AM, Mar 12, and we reported and/or noticed the government agencies concerned to apply the clause 1 of the Article 15 of the Radiation Disaster Measure at 5:58AM, Mar 13. In order to fully secure safety, we operated the vent valve to reduce the pressure of the reactor containment vessels (partial release of air containing radioactive materials) and completed the procedure at 8:41AM, Mar 13,
- \* We continue endeavoring to secure the safety that all we can do and monitoring the periphery.

Fukushima Daini Nuclear Power Station:

Units 1 to 4: shutdown due to earthquake

- \* The national government has instructed evacuation for those local residents within 10km radius of the periphery.
- \* At present, we have decided to prepare implementing measures to reduce the pressure of the reactor containment vessel (partial discharge of air containing radioactive materials) in order to fully secure safety. These measures are considered to be implemented in Units 1, 2 and 3 and accordingly, we have reported and/or noticed the government agencies

concerned.

- \* Unit 3 has been stopped and being "nuclear reactor cooling hot stop" at 12:15PM.
- \* The operator trapped in the crane operating console of the exhaust stack was transferred to the ground at 5:13PM and confirmed the death at 5:17PM.

Kashiwazaki Kariwa Nuclear Power Station:

Units 1, 5, 6, 7: normal operation

Units 2 to 4: outage due to regular inspection

[Thermal Power Station]

Hirono Thermal Power Station Units 2 and 4: shutdown due to earthquake

Hitachinaka Thermal Power Station Unit 1: shutdown due to earthquake

Kashima Thermal Power Station Units 2, 3, 5, 6: shutdown due to earthquake

Ohi Thermal Power Station Units 2, 3: shutdown due to earthquake

Higashi-Ohgishima Thermal Power Station Unit 1: shutdown due to earthquake

[Hydro Power Station]

- \* All the stations have been restored.

[Transmission System, etc.]

4 substations shown below have been shutdown:

- Naka Substation
- Shin Motegi Substation
- Joban Substation
- Ibaraki Substation
- Nishi Mito Substation

[Blackout in TEPCO's Service Area]

Total of about 0.31 million households are out of power.

Tokyo: 0

Kanagawa Pref.: 0

Tochigi Pref.: 7,221

Chiba Pref.: 301

Saitama Pref.: 0

Gunma Pref.: 0

Ibaraki Pref.: 298,977

Yamanashi Pref.: 0

Shizuoka Pref.: 0 (east of Fuji River)

[Supply and Demand Status within TEPCO's Service Area to Secure Stable Power Supply]

Backup supply from Shinshinano Conversion Station: 600MW

Backup supply from Sakuma Conversion Station: 300MW

Backup supply from Higashi Shimizu Conversion Station: 100MW

Because TEPCO's facilities have been seriously damaged, power shortage may occur. TEPCO appreciates customers' cooperation in reducing electricity usage by avoiding using unnecessary lighting and electrical equipment.

We are taking all measures to restore power, however, we expect extremely difficult situation in power supply for tomorrow as well.

We kindly ask our customers to cooperate with us in reducing usage of power.

Please do NOT touch cut-off electric wires.



▣ back to page top

▣ back to page top

**McNamara, Nancy**

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**From:** Giarrusso, John (CDA) [John.Giarrusso@state.ma.us]  
**Sent:** Tuesday, March 15, 2011 2:00 PM  
**To:** McNamara, Nancy; Tifft, Doug  
**Subject:** Question

Nancy and Doug

Continue to hear and see a wide range of information regarding the magnitude of the release in Japan. Can you clarify what Japan is seeing around the reactor, 10miles out and others?

Thanks  
John

John Giarrusso, Jr.  
Planning and Preparedness Division Manager  
MEMA  
508-820-2040 (w)  
(b)(6) (c)

**McNamara, Nancy**

---

**From:** Giarrusso, John (CDA) [John.Giarrusso@state.ma.us]  
**Sent:** Tuesday, March 15, 2011 2:00 PM  
**To:** McNamara, Nancy; Tiff, Doug  
**Subject:** Question

Nancy and Doug

Continue to hear and see a wide range of information regarding the magnitude of the release in Japan. Can you clarify what Japan is seeing around the reactor, 10 miles out and others?

Thanks

John

John Giarrusso, Jr.  
Planning and Preparedness Division Manager  
MEMA

508-820-2040 (w)

(b)(6)

(c)

**Ward, Steven**

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**From:** Ward, Steven  
**Sent:** Tuesday, March 15, 2011 1:13 PM  
**To:** Habighorst, Peter  
**Subject:** RE: ACTION BRANCH CHIEFS: OIP REQUEST FOR ASSISTANCE

I've always wanted to do a rotation in OIP. I've got experience living in Russia for two straight years, and actually did coordinate humanitarian efforts there (not that NRC would be doing that). And I lived in the most radioactive place on the planet while I was in Russia so a bit more radiation shouldn't hurt. -Steve

---

**From:** Habighorst, Peter  
**Sent:** Tuesday, March 15, 2011 12:52 PM  
**To:** Horn, Brian; Tuttle, Glenn; Grice, Thomas; Ward, Steven; Freeman, Eric; Ani, Suzanne; Aguilar, Santiago; Pham, Tom; Ditto, David  
**Subject:** FW: ACTION BRANCH CHIEFS: OIP REQUEST FOR ASSISTANCE

Any interest in a rotation to OIP??? Please provide your desires by noon tomorrow...thanks

---

**From:** Tschiltz, Michael  
**Sent:** Tuesday, March 15, 2011 12:44 PM  
**To:** Smith, Brian; Hiltz, Thomas; Habighorst, Peter; Campbell, Larry; Silva, Patricia; Johnson, Robert  
**Cc:** Bailey, Marissa; Kinneman, John  
**Subject:** ACTION BRANCH CHIEFS: OIP REQUEST FOR ASSISTANCE

Please read highlighted text below and ask your people if anyone is interested in being put on the list...  
Thanks, Mike

---

**From:** Smith, Shawn  
**Sent:** Tuesday, March 15, 2011 11:45 AM  
**To:** Kokajko, Lawrence; Ordaz, Vonna; Tschiltz, Michael  
**Cc:** Haney, Catherine; Dorman, Dan  
**Subject:** OIP REQUEST FOR ASSISTANCE

Activities involving the evolving situation in Japan are having and are projected to continue to have a significant impact upon OIP resources. With this, OIP would like to ask if each of the program offices could identify whether they have staff (preferably staff with international experience) that could be detailed to OIP for a period of, at least initially, 3 to 6 months. Any staff considered for possible rotation to OIP should be aware that they could potentially travel to Japan and be exposed to ionizing radiation. Please note that such identified staff may, or may not, actually be needed. Instead, OIP is hoping to have a list of individuals, with program office blessing, that could be utilized (including with very little or no notice).

Please provide me with names of candidates by COB Wednesday, March 16<sup>th</sup>. If you have any questions or need additional information, let me know.

Thanks.

Shawn Rochelle Smith  
Senior International Program Coordinator  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Mail Stop: EBB1-D2M  
Washington, DC 20555

AAAA/44

Office Phone: (301) 492-3260  
Blackberry: (b)(6)  
Fax: (301) 492-3360  
E-mail: [Shawn.Smith@nrc.gov](mailto:Shawn.Smith@nrc.gov)

## Satorius, Mark

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**From:** Dickson, Billy  
**Sent:** Monday, March 14, 2011 3:51 PM  
**To:** All R3 Users  
**Subject:** FW: Daily Morning Meeting News March 14 2011.docx (Branch 5 Corrections)  
**Attachments:** Daily Morning Meeting News March 14 2011.docx

### BRANCH 5

Point Beach U1:

U2: Core Offload completed.

Kewaunee Core reload completed, time to boil = 13.9 hours.

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**From:** Dickson, Billy  
**Sent:** Monday, March 14, 2011 3:12 PM  
**To:** All R3 Users; Shah, Swetha  
**Subject:** Daily Morning Meeting News March 14 2011.docx

The Daily Morning Meeting News for March 14, 2011

Note: This newsletter may contain pre-decisional info.

Do not distribute outside the NRC.

### Support Issues:

RA Lots of agency activity surrounding last week's earthquake and tsunami in Japan. Questions from external stakeholders (News Media, public and/or private organizations) should be funneled through HQ ops center.

DRP New NRC employee Swetha Shah joined the DRP staff today.

DRS General Response Training will be held today in DMNS Conference room today at 9:30 am (Attendance not mandatory)

DNMS Happy TT (Pi) Day.

*outside scope*

DRMA All-Staff meeting tomorrow (3/15), 10 am -11 am  
VTC for first-line-supervisor tomorrow (3/15), 12:30 pm – 2:00 pm.

STATES None

EICS None

PAO Lots of questions from external stakeholder and staff. NRC has published five press releases.

<http://www.bulletinnews.com/nrc/>

TSS None

## Materials Events/Issues

None

## Reactor Events

None

## Plant status

**BRANCH 1** Quiet

Dresden U2:  
U3:

Quad Cities U1:  
U2

Clinton

### BRANCH 2

Monticello Plant in Mode 5, S/D risk = green, RCS Temp = 95F; flooded up with a time to boil = 35.5 hours.

Ambulance response to non-occupancy injury, ambulance on-site, no contamination involved.

LaSalle U1:

U2: at new 100 percent power level.

Duane Arnold Duane Arnold is at 91% percent and increasing. FPL's Juno Beach Command Center developing Q and A's to address external question regarding Japanese events. In addition, corporate office is assessing fleet vulnerability regarding Japanese events.

### BRANCH 3

Byron U1: Shut down, Mode 4. Prompt Investigation started due to 1B RHR suction valve failed to open. Licensee manually opened to establish shut down cooling operations.

U2:

Braidwood U1:  
U2:

## **BRANCH 4**

Fermi

Palisades 1/2 EDG outage and surveillance testing completed over weekend. The licensee is searching for information to support continued operability of electrical portion of Diesel's governor.

Prairie Island U1:

U2: Defueled

## **BRANCH 5**

Point Beach U1:

U2: Mode 6. Core off load scheduled to be complete tonight.

Kewaunee RFO, time to boil = 13.9 hours.

## **BRANCH 6**

Davis-Besse Four-member INPO team onsite for INPO full assessment pre-visit.

DC Cook U1: Mode 3. Shut down down reactor this weekend to address main generator hydrogen leakage. Found multiple sources of hydrogen leak. Restart scheduled for Wednesday.

U2:

Perry NMSS has addressed IFISI Stack up Issue.

## **NRR**

None

## **Additional Support Issues**

Other Issues

## **Personnel News**

## **Daily**

## **One Week Look Ahead**

None



## **Weekly EDO Call Bullets**

None

## **Post 8:15 Meeting Topics**

**Public Affairs Staff discussed the agency's plan/approach for dealing with questions regarding the troubled Japanese plants from external stakeholders.**

Mike Jones will discuss Diesel Governor operations on 3/16.

TSS/Julio to provide sage wisdom on threshold for daily notes

Please note that all Daily Morning Meeting Notes are available on the Shared drive:

[S:\Daily Morning Meeting Notes](#)

The above link will open Windows Explorer, and simple searches for past "Post-8:15 Meeting Topics" can be performed using the "Search" function. The presenter may be able to provide additional information or answer questions of interest regarding the particular topic.

**From:** Coyne, Kevin  
**To:** Marksberry, Don; Beasley, Benjamin; Peters, Sean; Ott, William; Salley, MarkHenry; Kuritzky, Alan  
**Cc:** Ibarra, Jose; Coe, Doug; Correia, Richard  
**Subject:** Fw: IRC Staffing  
**Date:** Tuesday, March 15, 2011 7:48:43 PM

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BC's -

Please see below request from Brian and note that IRC experience/trng is not needed. Please identify folks that could support the irc effort and provide their names, availability, and shift preferences to Jose by 11 am Wednesday morning. We are looking for systems analysis, severe accidents, radiological dose assessment experience.

Also, we'll need to provide a standby list for folks willing to go to Japan - very strong technical skills and good communications ability are a must.

Thanks!

Kevin

Sent from an NRC Blackberry

Kevin Coyne

(b)(6)

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**From:** Sheron, Brian  
**To:** Coyne, Kevin; Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Cc:** Dion, Jeanne  
**Sent:** Tue Mar 15 17:27:11 2011  
**Subject:** IRC Staffing

I participated on a conference call with other ODs and led by Michele Evans, acting deputy OD in NSIR at 4 pm today.

The purpose of the conference call was to discuss staffing for the IRC for the near future. The IRC is currently staffed with members of the Reactor safety team, the Protective Measures team, Liaison Team, etc. There is also an ET member there. None of the teams are at their full compliment. What Michele is looking for is people that can staff the IRC and relieve the staff that are currently there. She said they are currently running 3 shifts (11pm-7am, 7am - 3pm, and 3pm to 11 pm). They would like to find staff that can work shifts for 4 days in a row (I think she wants 4 days on, 3 days off). She said the staff do not have to have had IRC training.

Several of us said we would certainly canvas our staff to see who was qualified to work in the IRC and could work there, but we needed to know what technical disciplines they were looking for. Michele did not have a list of needed disciplines, but said she would generate one and send it out. As of 5:15 pm I have not received a list yet.

However, I am assuming they will be looking for staff with expertise in such areas as systems analysis, severe accidents, radiological dose assessment, etc. In anticipation that these are the technical disciplines of interest, can you please start identifying your staff that you believe have some of the requisite skills needed for the IRC, and start asking if

AAAA/46

they would be available to work shifts in the IRC if asked to. HR said they would be eligible for normal overtime compensation.

Also, they will be looking for staff to go to Japan and relieve the technical staff that recently went there. There were 2 BWR experts that left over the weekend, and a team of 9 more (6 engineers and 3 OIP staff) left yesterday. The thinking is that the staff that recently went over would come back in 2 weeks, which is when they want to send a replacement team over there. So please check to see if you have any staff with the proper technical credentials, are reasonably good communicators, and would be willing to spend about 2 weeks in Japan as part of the team there.

I will forward the list of desired disciplines as soon as I receive them from Michele. Michele said she will be looking for the list of potential IRC replacements by COB tomorrow (3/16/11), thus, I will need your candidates by mid-afternoon.

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

## Stutzke, Martin

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**From:** Stutzke, Martin  
**Sent:** Tuesday, March 15, 2011 2:35 PM  
**To:** Runyan, Michael  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates  
**Attachments:** SSE Exceed and SCDF.xlsx; image001.png

Mike –

Thanks for your help. I looked up the SSEs and SCDF estimates for the Western US plants. Here's my final spreadsheet.

Marty

---

**From:** Runyan, Michael  
**Sent:** Tuesday, March 15, 2011 11:46 AM  
**To:** Stutzke, Martin  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Don't have the SSE values handy or any information on SDCFs.

Michael Runyan  
Senior Reactor Analyst, Region IV  
817-860-8142

(b)(6) (cell)

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**From:** Stutzke, Martin  
**Sent:** Tuesday, March 15, 2011 10:01 AM  
**To:** Runyan, Michael  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Great! I can calculate the annual exceedance frequencies if I know the SSE for peak ground acceleration. Do you have these handy? If not, I will look them up in the FSARs.

Anything about SCDFs? I can use NUREG-1742 (IPEEE results) for every plant except Palo Verde (they did an SMA for IPEEE, but later upgraded to SPRA).

Thanks again,  
Marty

---

**From:** Runyan, Michael  
**Sent:** Tuesday, March 15, 2011 10:58 AM  
**To:** Stutzke, Martin  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Here is the information we use to determine exceedences based on peak ground acceleration. Sometimes, spectra accelerations are used and these are different to some extent.

For the four sites West of Rocky mountains, this information is obtained from IPEEE studies and is given below.

14 Columbia		20 Diablo Canyon		46 Palo Verde 1, 2 & 3		58 San Onofre 2 & 3	
g value	mean f per year	g value	mean f per year	g value	mean f per year	g value	mean f per year
0.05	1.30E-03	0.20	1.85E-02	1.00E-02	3.00E-02	0.20	5.20E-03
0.10	1.30E-03	0.50	7.44E-03	2.00E-02	5.70E-03	0.30	2.00E-03
0.20	3.00E-04	0.80	3.56E-03	5.00E-02	9.10E-04	0.40	8.00E-04
0.30	1.10E-04	1.00	2.19E-03	7.00E-02	5.30E-04	0.50	3.38E-04
0.40	5.00E-05	1.20	1.35E-03	1.00E-01	3.00E-04	0.60	2.10E-04
0.50	2.50E-05	1.50	6.26E-04	1.50E-01	1.50E-04	0.70	1.00E-04
0.60	1.30E-05	2.00	1.61E-04	2.00E-01	7.90E-05	0.80	4.80E-05
0.70	7.80E-06	2.50	3.73E-05	3.00E-01	2.20E-05	0.90	2.60E-05
0.80	4.60E-06	3.00	7.89E-06	5.00E-01	1.10E-06	1.00	1.30E-05
0.90	3.00E-06	4.00	2.42E-07	1.00E+00	9.30E-10	2.00	7.80E-08
1.00	1.80E-06						

Michael Runyan  
Senior Reactor Analyst, Region IV  
817-860-8142

(b)(6) (cell)

**From:** Stutzke, Martin  
**Sent:** Tuesday, March 15, 2011 9:39 AM  
**To:** Runyan, Michael  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates  
**Importance:** High

Mike –

I was given your name by Don Marksberry. By way of introduction, I'm one of the PRA SLS working in RES/DRA, and coauthored the Safety/Risk Assessment of GI-199 concerning the impact of updated seismic hazard estimates in the Central and Eastern US.

We are trying to answer Question #2 (see below). Since GI-199 focused in CEUS plants, we did not collect recent information on seismic hazards and seismic core-damage frequencies for the Western US plants (Columbia, Diablo Canyon, San Onofre, and Palo Verde). I am hoping that you might have or can readily obtain this information. Specifically, here's what we would like to know:

1. What is the current estimate of seismic core-damage frequency at each Western US plant?
2. What is the current estimate of exceeding the safe shutdown earthquake (SSE) at each Western US plant? To get a complete picture, we'd like to know the annual exceedence frequencies for various spectral frequencies (e.g., 1 Hz, 5 Hz, and 10 Hz) as well as peak ground acceleration.

Thanks in advance,

Marty

Martin A. Stutzke  
Senior Technical Advisor of PRA Technologies  
Division of Risk Analysis  
Office of Nuclear Regulatory Research  
301-251-7614

**From:** Beasley, Benjamin  
**Sent:** Tuesday, March 15, 2011 9:36 AM  
**To:** Stutzke, Martin; Ake, Jon  
**Cc:** Kauffman, John  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates  
**Importance:** High

I am still reading this but need to give you the heads up. I am walking to the 6<sup>th</sup> floor to get permission to work on this.

Ben

---

**From:** Wilson, George  
**Sent:** Tuesday, March 15, 2011 9:31 AM  
**To:** Beasley, Benjamin  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates  
**Importance:** High

fyi

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**From:** Hiland, Patrick  
**Sent:** Tuesday, March 15, 2011 9:20 AM  
**To:** Wilson, George; Manoly, Kamal  
**Cc:** Stutzke, Martin; Ake, Jon; Coe, Doug; Skeen, David; Scales, Kerby  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates  
**Importance:** High

Need to work with OPA, and RES. Kamal should coordinate with RES, and I suggest Marty/Jon respond directly through RES. Doug Coe is good source also for the GI. Get OPA involved.

---

**From:** Bill Dedman [mailto:Bill.Dedman@msnbc.com]  
**Sent:** Tuesday, March 15, 2011 9:06 AM  
**To:** Manoly, Kamal; Sheron, Brian; Hiland, Patrick; OPA Resource  
**Subject:** NBC deadline question for NRC on seismic hazard estimates

Good morning,

My name is Bill Dedman. I'm a reporter for NBC News and msnbc.com, writing an article today about:

SAFETY/RISK ASSESSMENT RESULTS FOR GENERIC ISSUE 199, "IMPLICATIONS OF UPDATED PROBABILISTIC SEISMIC HAZARD ESTIMATES IN CENTRAL AND EASTERN UNITED STATES ON EXISTING PLANTS"

I reached out to NRC Public Affairs yesterday but have not heard back, and my deadline is end-of-day today. I'm hoping to get on the phone today with someone from NRC to make sure I'm conveying this information accurately to the public. If nothing else, I'm hoping one of the technical people can help clarify the points below. My telephone number is 203-451-9995.

I've read Director Brian Sheron's memo of Sept. 2, 2010, to Mr. Patrick Hiland; the safety/risk assessment of August 2010; its appendices A through D; NRC Information Notice 2010-18; and the fact sheet from public affairs from November 2010.

I have these questions:

1. I'd like to make sure that I accurately place in layman's terms the seismic hazard estimates. I need to make sure that I'm understanding the nomenclature for expressing the seismic core-damage frequencies. Let's say there's an estimate expressed as "2.5E-06." (I'm looking at Table D-2 of the safety/risk assessment of August 2010.) I believe that this expression means the same as  $2.5 \times 10^{-6}$ , or 0.0000025, or 2.5 divided by one million. In layman's terms, that means an expectation, on average, of 2.5 events every million years, or once every 400,000 years. Similarly, "2.5E-05" would be 2.5 divided by 100,000, or 2.5 events every 100,000 years, on average, or once every 40,000 years. Is this correct?

2. These documents give updated probabilistic seismic hazard estimates for existing nuclear power plants in the Central and Eastern U.S. What document has the latest seismic hazard estimates (probabilistic or not) for existing nuclear power plants in the Western U.S.?

3. The documents refer to newer data on the way. Have NRC, USGS et al. released those? I'm referring to this: "New consensus seismic-hazard estimates will become available in late 2010 or early 2011 (these are a product of a joint NRC, U.S. Department of Energy, U.S. Geological Survey (USGS) and Electric Power Research Institute (EPRI) project). These consensus seismic hazard estimates will supersede the existing EPRI, Lawrence Livermore National Laboratory, and USGS hazard estimates used in the GI-199 Safety/Risk Assessment."

4. What is the timetable now for consideration of any regulatory changes from this research?

Thank you for your help.

Regards,

Bill Dedman

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**SEISMIC INFORMATION: SSE, SSE EXCEEDANCE FREQUENCIES, REVIEW-LEVEL EARTHQUAKES, AND SEISMIC CORE-DAMAGE FREQUENCIES**

Plant	Docket	SSE	Frequency of Exceeding the SSE	RLE (HCLPF)	Seismic Core Damage Frequency	IPEEE Method	Source
		(g's)	(per year)	(g's)	(per year)		
Arkansas 1	05000313	0.2	2.8E-04	0.3	4.1E-06	0.3g full-scope EPRI SMA	GI-199
Arkansas 2	05000368	0.2	9.7E-05	0.3	4.1E-06	0.3g focused-scope EPRI SMA	GI-199
Beaver Valley 1	05000334	0.12	3.3E-04	n/a	4.8E-05	seismic PRA	GI-199
Beaver Valley 2	05000412	0.12	2.7E-04	n/a	2.2E-05	seismic PRA	GI-199
Braidwood 1	05000456	0.2	6.7E-05	0.3	7.3E-06	0.3g focused-scope EPRI SMA	GI-199
Braidwood 2	05000457	0.2	6.7E-05	0.3	7.3E-06	0.3g focused-scope EPRI SMA	GI-199
Browns Ferry 1	05000259	0.2	2.5E-04	0.3	3.7E-06	0.3g focused-scope EPRI SMA	GI-199
Browns Ferry 2	05000260	0.2	2.5E-04	0.26	5.4E-06	0.3g focused-scope EPRI SMA	GI-199
Browns Ferry 3	05000296	0.2	2.5E-04	0.26	5.4E-06	0.3g focused-scope EPRI SMA	GI-199
Brunswick 1	05000325	0.16	7.3E-04	0.3	1.5E-05	0.3g focused-scope EPRI SMA	GI-199
Brunswick 2	05000324	0.16	7.3E-04	0.3	1.5E-05	0.3g focused-scope EPRI SMA	GI-199
Byron 1	05000454	0.2	5.2E-05	0.3	5.8E-06	0.3g focused-scope EPRI SMA	GI-199
Byron 2	05000455	0.2	5.2E-05	0.3	5.8E-06	0.3g focused-scope EPRI SMA	GI-199
Callaway	05000483	0.2	3.8E-05	0.3	2.0E-06	0.3g focused-scope EPRI SMA	GI-199
Calvert Cliffs 1	05000317	0.15	1.9E-04	n/a	1.0E-05	seismic PRA	GI-199
Calvert Cliffs 2	05000318	0.15	1.9E-04	n/a	1.2E-05	seismic PRA	GI-199
Catawba 1	05000413	0.15	1.4E-04	n/a	3.7E-05	seismic PRA	GI-199
Catawba 2	05000414	0.15	1.4E-04	n/a	3.7E-05	seismic PRA	GI-199
Clinton	05000461	0.25	5.8E-05	0.3	2.5E-06	0.3g focused-scope EPRI SMA	GI-199
Columbia	05000397	0.25	1.7E-04	n/a	2.1E-05	seismic PRA	IPEEE
Comanche Peak 1	05000445	0.12	1.6E-05	0.12	4.0E-06	reduced-scope EPRI SMA; SSE = 0.12g	GI-199
Comanche Peak 2	05000446	0.12	1.6E-05	0.12	4.0E-06	reduced-scope EPRI SMA; SSE = 0.12g	GI-199
Cooper	05000298	0.2	1.5E-04	0.3	7.0E-06	0.3g focused-scope EPRI SMA	GI-199
Crystal River 3	05000302	0.1	8.9E-05	0.1	2.2E-05	reduced-scope EPRI SMA; SSE = 0.1g	GI-199
D.C. Cook 1	05000315	0.2	2.1E-04	n/a	2.2E-05	seismic PRA	GI-199
D.C. Cook 2	05000316	0.2	2.1E-04	n/a	2.2E-05	seismic PRA	GI-199
Davis Besse	05000346	0.15	6.3E-05	0.26	6.7E-06	reduced-scope EPRI SMA	GI-199
Diablo Canyon 1	05000275	0.75	3.9E-03	n/a	4.2E-05	seismic PRA	IPEEE
Diablo Canyon 2	05000323	0.75	3.9E-03	n/a	4.2E-05	seismic PRA	IPEEE
Dresden 2	05000237	0.2	9.7E-05	0.26	1.9E-05	0.3g focused-scope EPRI SMA	GI-199
Dresden 3	05000249	0.2	9.7E-05	0.26	1.9E-05	0.3g focused-scope EPRI SMA	GI-199
Duane Arnold	05000331	0.12	2.3E-04	0.12	3.2E-05	reduced-scope EPRI SMA; SSE = 0.12g	GI-199
Farley 1	05000348	0.1	1.0E-04	0.1	2.8E-05	reduced-scope EPRI SMA; SSE = 0.1g	GI-199
Farley 2	05000364	0.1	1.0E-04	0.1	2.8E-05	reduced-scope EPRI SMA; SSE = 0.1g	GI-199
Fermi 2	05000341	0.15	1.0E-04	0.3	4.2E-06	0.3g focused-scope EPRI SMA	GI-199
Fitzpatrick	05000333	0.15	3.2E-04	0.22	6.1E-06	0.3g focused-scope NRC SMA	GI-199
Fort Calhoun 1	05000285	0.17	3.7E-04	0.25	5.4E-06	0.3g focused-scope NRC SMA	GI-199
Ginna	05000244	0.2	1.0E-04	0.2	1.3E-05	0.3g focused-scope EPRI SMA	GI-199
Grand Gulf	05000416	0.15	1.0E-04	0.15	1.2E-05	reduced-scope EPRI SMA; SSE = 0.15g	GI-199



Hatch 1	05000400	0.148	3.9E-04	0.29	2.3E-06	0.3g focused-scope EPRI SMA	GI-199
Hatch 2	05000321	0.15	2.7E-04	0.3	2.5E-06	0.3g focused-scope EPRI SMA	GI-199
Hope Creek	05000366	0.2	9.7E-05	0.3	2.5E-06	0.3g focused-scope EPRI SMA	GI-199
Indian Point 2	05000354	0.15	4.9E-04	n/a	2.8E-06	seismic PRA	GI-199
Indian Point 3	05000247	0.15	4.9E-04	n/a	3.3E-05	seismic PRA	GI-199
Kewaunee	05000286	0.12	2.8E-04	n/a	1.0E-04	seismic PRA	GI-199
LaSalle 1	05000305	0.2	1.7E-04	n/a	5.1E-06	seismic PRA	GI-199
LaSalle 2	05000373	0.2	1.7E-04	n/a	2.8E-06	seismic PRA	GI-199
Limerick 1	05000374	0.15	1.8E-04	n/a	2.8E-06	seismic PRA	GI-199
Limerick 2	05000352	0.15	1.8E-04	0.15	5.3E-05	reduced-scope EPRI SMA	GI-199
McGuire 1	05000353	0.15	9.5E-05	0.15	5.3E-05	reduced-scope EPRI SMA	GI-199
McGuire 2	05000369	0.15	9.5E-05	n/a	3.1E-05	seismic PRA	GI-199
Millstone 1	05000370	0.254	9.3E-05	n/a	3.1E-05	seismic PRA	GI-199
Millstone 2	05000336	0.17	8.3E-05	0.25	1.1E-05	0.3g focused-scope EPRI SMA	GI-199
Millstone 3	05000423	0.17	8.3E-05	n/a	1.5E-05	seismic PRA	GI-199
Monticello	05000263	0.12	9.3E-05	0.12	1.9E-05	modified focused/expended reduced-scope EPRI SMA	GI-199
Nine Mile Point 1	05000220	0.11	1.5E-04	0.27	4.2E-06	0.3g focused-scope EPRI SMA	GI-199
Nine Mile Point 2	05000410	0.15	4.8E-05	0.23	5.6E-06	SPRA and focused-scope EPRI SMA	GI-199
North Anna 1	05000338	0.12	2.1E-04	0.16	4.4E-05	0.3g focused-scope EPRI SMA	GI-199
North Anna 2	05000339	0.12	2.1E-04	0.16	4.4E-05	0.3g focused-scope EPRI SMA	GI-199
Oconee 1	05000269	0.1	9.7E-04	n/a	4.3E-05	seismic PRA	GI-199
Oconee 2	05000270	0.1	9.7E-04	n/a	4.3E-05	seismic PRA	GI-199
Oconee 3	05000287	0.1	9.7E-04	n/a	4.3E-05	seismic PRA	GI-199
Oyster Creek	05000219	0.17	1.5E-04	n/a	1.4E-05	seismic PRA	GI-199
Palisades	05000255	0.2	1.4E-04	n/a	6.4E-06	seismic PRA	GI-199
Palo Verde 1	05000528	0.258	3.5E-05	0.3	3.8E-05	0.3g full-scope EPRI SMA	IPEEE
Palo Verde 2	05000529	0.258	3.5E-05	0.3	3.8E-05	0.3g full-scope EPRI SMA	IPEEE
Palo Verde 3	05000530	0.258	3.5E-05	0.3	3.8E-05	0.3g full-scope EPRI SMA	IPEEE
Peach Bottom 2	05000277	0.12	2.0E-04	0.2	2.4E-05	modified focused-scope EPRI SMA	GI-199
Peach Bottom 3	05000278	0.12	2.0E-04	0.2	2.4E-05	modified focused-scope EPRI SMA	GI-199
Perry	05000440	0.15	2.2E-04	0.3	2.1E-05	0.3g focused-scope EPRI SMA	GI-199
Pilgrim 1	05000293	0.15	8.1E-04	n/a	6.9E-05	seismic PRA	GI-199
Point Beach 1	05000266	0.12	2.0E-04	n/a	1.1E-05	seismic PRA	GI-199
Point Beach 2	05000301	0.12	2.0E-04	n/a	1.1E-05	seismic PRA	GI-199
Prairie Island 1	05000282	0.12	2.0E-04	0.28	3.0E-06	0.3g focused-scope EPRI SMA	GI-199
Prairie Island 2	05000306	0.12	2.0E-04	0.28	3.0E-06	0.3g focused-scope EPRI SMA	GI-199
Quad Cities 1	05000254	0.24	8.2E-04	0.09	2.7E-05	0.3g focused-scope EPRI SMA	GI-199
Quad Cities 2	05000265	0.24	8.2E-04	0.09	2.7E-05	0.3g focused-scope EPRI SMA	GI-199
River Bend	05000458	0.1	2.4E-04	0.1	2.5E-05	reduced-scope EPRI SMA; SSE = 0.1g	GI-199
Robinson (HR)	05000261	0.2	1.1E-03	0.28	1.5E-05	0.3g full-scope EPRI SMA	GI-199
Saint Lucie	05000335	0.1	1.4E-04	0.1	4.6E-05	reduced-scope EPRI SMA; SSE = 0.1g	GI-199
Salem 1	05000389	0.2	2.6E-04	0.1	4.6E-05	reduced-scope EPRI SMA; SSE = 0.1g	GI-199
Salem 2	05000272	0.2	2.6E-04	n/a	9.3E-06	seismic PRA	GI-199
San Onofre 2	05000361	0.67	1.2E-04	n/a	1.7E-05	seismic PRA	IPEEE

San Onofre 3	05000362	0.67	1.2E-04	n/a	1.7E-05	seismic PRA	IPEEE
Seabrook	05000311	0.25	1.3E-04	n/a	9.3E-06	seismic PRA	GI-199
Sequoyah 1	05000443	0.18	7.1E-04	n/a	2.2E-05	seismic PRA	GI-199
Sequoyah 2	05000327	0.18	7.1E-04	0.27	5.1E-05	0.3g full-scope EPRI SMA	GI-199
Shearon Harris 1	05000328	0.15	4.6E-05	0.27	5.1E-05	0.3g full-scope EPRI SMA	GI-199
South Texas 1	05000498	0.1	3.0E-05	n/a	6.2E-06	seismic PRA	GI-199
South Texas 2	05000499	0.1	3.0E-05	n/a	6.2E-06	seismic PRA	GI-199
Summer	05000395	0.15	3.9E-04	0.22	3.8E-05	0.3g focused-scope EPRI SMA	GI-199
Surry 1	05000280	0.15	2.2E-04	n/a	5.7E-06	seismic PRA	GI-199
Surry 2	05000281	0.15	2.2E-04	n/a	5.7E-06	seismic PRA	GI-199
Susquehanna 1	05000387	0.1	1.9E-04	0.21	1.3E-05	0.3g focused-scope EPRI SMA	GI-199
Susquehanna 2	05000388	0.1	1.9E-04	0.21	1.3E-05	0.3g focused-scope EPRI SMA	GI-199
Three Mile Island 1	05000289	0.12	1.0E-04	n/a	4.0E-05	seismic PRA	GI-199
Turkey Point 3	05000250	0.15	3.8E-05	0.15	1.0E-05	site-specific approach; SSE=0.15g	GI-199
Turkey Point 4	05000251	0.15	3.8E-05	0.15	1.0E-05	site-specific approach; SSE=0.15g	GI-199
Vermont Yankee	05000271	0.14	1.2E-04	0.25	8.1E-06	0.3g focused-scope EPRI SMA	GI-199
Vogtle 1	05000424	0.2	1.5E-04	0.3	1.8E-05	0.3g focused-scope EPRI SMA	GI-199
Vogtle 2	05000425	0.2	1.5E-04	0.3	1.8E-05	0.3g focused-scope EPRI SMA	GI-199
Waterford 3	05000382	0.1	1.1E-04	0.1	2.0E-05	reduced-scope EPRI SMA; SSE = 0.1g	GI-199
Watts Bar	05000390	0.18	2.9E-04	0.3	3.6E-05	0.3g focused-scope EPRI SMA	GI-199
Wolf Creek	05000482	0.12	3.7E-05	0.2	1.8E-05	reduced-scope EPRI SMA	GI-199

25th percentile	9.6E-05	6.0E-06
min	1.6E-05	2.0E-06
median	1.7E-04	1.5E-05
mean	3.1E-04	2.1E-05
max	3.9E-03	1.0E-04
75th percentile	2.6E-04	3.2E-05

**Grice, Thomas**

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**From:** Grice, Thomas  
**Sent:** Tuesday, March 15, 2011 2:10 PM  
**To:** 'David.Hanks@srnl.doe.gov'  
**Subject:** RE: Visit to MD

Dave,

I'll be working until 6:00 but Eric and I had talked about going out and getting something to eat and watching some of the NCAA tournament somewhere. When do you get in and where are you staying? Maybe we can all get together.

As for your offer, but it sounds like they have everything they need. The NRC Operations Center is activated and they have the experts for the reactor side of the house there. They are familiar with the specific reactor design, have the engineers and seismologist that do the licensing evaluations, etc...

Safe travels!

Tom

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**From:** David.Hanks@srnl.doe.gov [mailto:David.Hanks@srnl.doe.gov]  
**Sent:** Tuesday, March 15, 2011 11:55 AM  
**To:** Grice, Thomas  
**Subject:** Visit to MD

Tom,

I'll be in Rockville, MD tomorrow and Thursday and thought about dropping by your office for a visit. Will you be in town?

I've been monitoring the news concerning the Japan disaster, as I'm sure you have too, and recognize many of the terms being used from my BWR operational experience. During my appointment at the IAEA I was elected to be placed on a rotational duty roster in the IAEA incident and emergency center (IEC) as a nuclear installation specialist for about 5 years. I participated in international drills and was trained by the IAEA in procedures and practices. If you know of anyone in the NRC that might take advantage of my knowledge of the IAEA IEC I'll be glad to help.

All the best,  
Dave

*David H. Hanks*

**Program Manager Safeguards Initiatives**  
**Global Security Section**  
**Savannah River National Laboratory**  
**Savannah River Nuclear Solutions**  
**Aiken, SC 29808**  
**Office: 803-952-6682**  
**Mobile: (b)(6)**  
**Pager: (b)(6)**

AAA/48

## **Stutzke, Martin**

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**From:** Stutzke, Martin  
**Sent:** Tuesday, March 15, 2011 3:28 PM  
**To:** Burnell, Scott; Manoly, Kamal  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Yes – The IPEEE SCDF estimates are in NUREG-1742 (on the public website). Also, the GI-199 Safety/Risk Assessment is publically available (ML100270582).

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**From:** Burnell, Scott  
**Sent:** Tuesday, March 15, 2011 3:25 PM  
**To:** Stutzke, Martin; Manoly, Kamal  
**Subject:** Re: NBC deadline question for NRC on seismic hazard estimates

Is this drawn from publicly available info??

Sent from an NRC Blackberry

Scott Burnell

(b)(6)

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**From:** Stutzke, Martin  
**To:** Manoly, Kamal  
**Cc:** Burnell, Scott  
**Sent:** Tue Mar 15 15:23:53 2011  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Here's a spreadsheet that I developed earlier today for Joe Gitter and Pat Hiland that shows the SCDFs and frequencies of exceeding the SSE for all plants.

Marty

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**From:** Manoly, Kamal  
**Sent:** Tuesday, March 15, 2011 3:22 PM  
**To:** Stutzke, Martin  
**Cc:** Burnell, Scott  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Are the numbers handy to you for response to Scott?

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**From:** Stutzke, Martin  
**Sent:** Tuesday, March 15, 2011 3:21 PM  
**To:** Manoly, Kamal  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

They both did seismic PRAs.

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**From:** Manoly, Kamal  
**Sent:** Tuesday, March 15, 2011 3:20 PM  
**To:** Stutzke, Martin; Ake, Jon; Ferrante, Fernando  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates

Do you guys know whether Diablo and San Onofre did seismic PRA or seismic margin?

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**From:** Burnell, Scott  
**Sent:** Tuesday, March 15, 2011 3:16 PM  
**To:** Beasley, Benjamin; Wilson, George; Manoly, Kamal  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Quick follow-up: Any easy way to provide access to the IPEEE seismic CDF numbers for Diablo Canyon, San Onofre, etc?

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**From:** Couret, Ivonne  
**Sent:** Tuesday, March 15, 2011 2:12 PM  
**To:** Burnell, Scott  
**Cc:** Beasley, Benjamin  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates

Scott Burnell will respond to the reporter. Thanks to everyone for providing information on this matter. Scott will call you Ben for clarifications. Ivonne

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**From:** Beasley, Benjamin  
**Sent:** Tuesday, March 15, 2011 12:52 PM  
**To:** Couret, Ivonne  
**Cc:** Wilson, George; Manoly, Kamal; Ake, Jon; Stutzke, Martin; Kammerer, Annie; Murphy, Andrew; Munson, Clifford; Kauffman, John  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

Ivonne,

Answers are provided in the attached Word document. I will be in a low priority meeting for the next couple of hours. If you want us to support a telephone interview, please call me at 301-873-3070.

Ben

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**From:** Couret, Ivonne  
**Sent:** Tuesday, March 15, 2011 11:31 AM  
**To:** Beasley, Benjamin  
**Cc:** Wilson, George  
**Subject:** RE: NBC deadline question for NRC on seismic hazard estimates

I just spoke to the reporter if we can give him written responses and coordinate a phone interview/review of items. When you guys are ready we can do this before 5p.m. Thanks for ALL you do! Ivonne

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**From:** Beasley, Benjamin  
**Sent:** Tuesday, March 15, 2011 11:29 AM  
**To:** Couret, Ivonne  
**Cc:** Wilson, George  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates  
**Importance:** High

Ivonne,

I am coordinating the assembly of answers for the NBC reporter on GI-199. We are still working, but draft answers are:

1. His plain language understanding of the risk is correct.
2. The latest seismic hazard estimates for western U.S. nuclear plants are in the IPEEEs. Following 9-11, these documents are no longer publicly available. There are updated USGS seismic estimates for the entire U.S., but these have not been applied to the western plants.
3. The consensus hazard estimates are not out yet. We expect them by the end of the year.
4. The NRC is working on developing a Generic Letter (GL) to request information from affected licensees. The GL will likely be issued in a draft form within the next 2 months to stimulate discussions with industry in a public meeting. After that it has to be approved by CRGR, presented to ACRS and issued as a draft for formal public comments (45 days). After evaluation of the public comments it can then be finalized for issuance. We anticipate to issue the GL by the end of this calendar year. The information from licensees will likely require 3-6 months to complete. Staff's review will commence after receiving licensees' responses. Based on staff's review, a determination can be made regarding cost beneficial backfits where it can be justified.

I will send an update after I get final information. Please let me know if there is something else we can do.

Ben Beasley



Benjamin Beasley, Chief  
Operating Experience and Generic Issues Branch  
Division of Risk Analysis  
Office of Nuclear Regulatory Research  
301-251-7676  
Benjamin.Beasley@nrc.gov  
Generic Issues Program  
Operating Experience Databases

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**From:** Wilson, George  
**Sent:** Tuesday, March 15, 2011 9:31 AM  
**To:** Beasley, Benjamin  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates  
**Importance:** High

fyi

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**From:** Hiland, Patrick  
**Sent:** Tuesday, March 15, 2011 9:20 AM  
**To:** Wilson, George; Manoly, Kamal  
**Cc:** Stutzke, Martin; Ake, Jon; Coe, Doug; Skeen, David; Scales, Kerby  
**Subject:** FW: NBC deadline question for NRC on seismic hazard estimates  
**Importance:** High

Need to work with OPA, and RES. Kamal should coordinate with RES, and I suggest Marty/Jon respond directly through RES. Doug Coe is good source also for the GI. Get OPA involved.

**From:** Bill Dedman [mailto:Bill.Dedman@msnbc.com]  
**Sent:** Tuesday, March 15, 2011 9:06 AM  
**To:** Manoly, Kamal; Sheron, Brian; Hiland, Patrick; OPA Resource  
**Subject:** NBC deadline question for NRC on seismic hazard estimates

Good morning,

My name is Bill Dedman. I'm a reporter for NBC News and msnbc.com, writing an article today about:

SAFETY/RISK ASSESSMENT RESULTS FOR GENERIC ISSUE 199, "IMPLICATIONS OF UPDATED PROBABILISTIC SEISMIC HAZARD ESTIMATES IN CENTRAL AND EASTERN UNITED STATES ON EXISTING PLANTS"

I reached out to NRC Public Affairs yesterday but have not heard back, and my deadline is end-of-day today. I'm hoping to get on the phone today with someone from NRC to make sure I'm conveying this information accurately to the public. If nothing else, I'm hoping one of the technical people can help clarify the points below. My telephone number is 203-451-9995.

I've read Director Brian Sheron's memo of Sept. 2, 2010, to Mr. Patrick Hiland; the safety/risk assessment of August 2010; its appendices A through D; NRC Information Notice 2010-18; and the fact sheet from public affairs from November 2010.

I have these questions:

1. I'd like to make sure that I accurately place in layman's terms the seismic hazard estimates. I need to make sure that I'm understanding the nomenclature for expressing the seismic core-damage frequencies. Let's say there's an estimate expressed as "2.5E-06." (I'm looking at Table D-2 of the safety/risk assessment of August 2010.) I believe that this expression means the same as  $2.5 \times 10^{-6}$ , or 0.0000025, or 2.5 divided by one million. In layman's terms, that means an expectation, on average, of 2.5 events every million years, or once every 400,000 years. Similarly, "2.5E-05" would be 2.5 divided by 100,000, or 2.5 events every 100,000 years, on average, or once every 40,000 years. Is this correct?
2. These documents give updated probabilistic seismic hazard estimates for existing nuclear power plants in the Central and Eastern U.S. What document has the latest seismic hazard estimates (probabilistic or not) for existing nuclear power plants in the Western U.S.?
3. The documents refer to newer data on the way. Have NRC, USGS et al. released those? I'm referring to this: "New consensus seismic-hazard estimates will become available in late 2010 or early 2011 (these are a product of a joint NRC, U.S. Department of Energy, U.S. Geological Survey (USGS) and Electric Power Research Institute (EPRI) project). These consensus seismic hazard estimates will supersede the existing EPRI, Lawrence Livermore National Laboratory, and USGS hazard estimates used in the G1-199 Safety/Risk Assessment."
4. What is the timetable now for consideration of any regulatory changes from this research?

Thank you for your help.

Regards,

Bill Dedman

that any unauthorized use, dissemination, distribution or copy of this communication is strictly prohibited. No waiver of privilege, confidence or otherwise is intended by virtue of this communication. If you have received this message in error, or are not the named recipient(s), please immediately notify the sender, destroy all copies and delete this e-mail message from your computer. Thank you.



**From:** Haney, Catherine  
**To:** [mishiro.masaaki@jaea.go.jp](mailto:mishiro.masaaki@jaea.go.jp)  
**Subject:** RE: From Mishiro RWMC-44: Bureau debriefing (Please delete previous one)  
**Date:** Tuesday, March 15, 2011 3:30:00 PM

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I was very happy to hear that (b)(6) NRC has been monitoring the situation on a 24 hour basis and I have often thought of you and hoped all was well.

Look forward to seeing you next week.  
Cathy

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

From: [mishiro.masaaki@jaea.go.jp](mailto:mishiro.masaaki@jaea.go.jp) [<mailto:mishiro.masaaki@jaea.go.jp>]  
Sent: Tuesday, March 15, 2011 12:48 AM  
To: [John.STEIN@oecd.org](mailto:John.STEIN@oecd.org)  
Cc: [john.stein@oecd.org](mailto:john.stein@oecd.org); Haney, Catherine; [mcrl@csn.es](mailto:mcrl@csn.es); [gerald.ouzounian@andra.fr](mailto:gerald.ouzounian@andra.fr); [marie-claude.dupuis@andra.fr](mailto:marie-claude.dupuis@andra.fr); [lorella.pecorale@oecd.org](mailto:lorella.pecorale@oecd.org); [jp.minon@nirond.be](mailto:jp.minon@nirond.be); Smith, Shawn; [kshaver@nwmco.ca](mailto:kshaver@nwmco.ca); [uichiro.yoshimura@oecd.org](mailto:uichiro.yoshimura@oecd.org); [claudio.pescatore@oecd.org](mailto:claudio.pescatore@oecd.org); [hans.riotte@oecd.org](mailto:hans.riotte@oecd.org)  
Subject: Re: From Mishiro RWMC-44: Bureau debriefing (Please delete previous one)

Dear Colleagues,

The aftermath of the earthquake on Friday is still continuing. The number of deaths is still not known, and the information on Fukushima Nuclear Power Plant situation is on the news all the time. Myself and my family, JAEA staff(as far as I know) are all safe.

I was at the meeting in Tokyo, and one couldn't stand up nor walk when the earthquake hit Japan. Most of the staff stayed in the office Friday night as public transportation stopped and highways were closed. Many public buildings were offered for those who could not go home and many walked home midnight. I moved on Saturday morning and it took me 11 hrs from Tokyo to my home in Mito (about 120 Km from Tokyo). (It was lucky that we could find a rent-a-car.) No water, no electricity and many things fell down from the shelves at home but fortunate that no human injuries. No TV and internets, it was difficult to access latest information, but electricity and water recovered on Sunday.

Still no public transportation from Mito to Tokyo. As the JAEA Tokai Headquarter Building is under safety check, I am at home right now. As many power plants (not only nuclear) were hit, there will be scheduled blackouts in east Japan areas and less public transportations. Here in Mito we still have aftershocks (small? earthquakes) almost every hour. Hundreds of cars are in long queue at every gas stations.

Having said this, I hope that I can attend RWMC-44 next week and if I can, I will leave Paris by late evening flight on 24th, so available until 19 pm.

Warm regards  
Mishiro

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

- > Dear Bureau members,
- >
- > If it is possible for you stay after the meeting, we would hold a

AAAA/50

debriefing session just after closure on Day 2. In that case we would organise some refreshments as we did last year.

>

> Could you please let us know whether this will be possible for you or not.

>

> Best regards,

>

> John

>

> [http://home.nea.fr/neaweb/new-signature/images/oe.cd-nea-logo-30-30.gif]

>

> John Stein - OECD Nuclear Energy Agency (NEA)

> Radiation Protection and Radioactive Waste Management Division

> Mailing address: 2 rue André-Pascal, 75775 Paris Cedex 16, France

> Office address: Le Seine Saint-Germain, 12 Boulevard des Îles, 92130

Issy-les-Moulineaux, France

> Email: john.stein@oe.cd.org<mailto:john.stein@oe.cd.org> / Tel: +33 (0)1

45 24 10 41 / Fax: +33 (0)1 44 30 61 11

> Update your bookmarks!

> On 1 December 2010, the NEA is moving to:

> www.oe.cd-nea.org<http://www.oe.cd-nea.org/>

>

>

> Best Wishes for 2011! / Meilleurs voeux pour 2011

!<http://www.oe.cd.org/dataoe.cd/13/39/46769567.html?contentId=46769568>

>

>

**Freeman, Eric**

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**From:** Freeman, Eric  
**Sent:** Tuesday, March 15, 2011 1:41 PM  
**To:** Habighorst, Peter  
**Subject:** RE: ACTION BRANCH CHIEFS: OIP REQUEST FOR ASSISTANCE

Feel free to put my name down for any help they need. Not sure if they would need/use me but feel free to put my name down anyway!

**From:** Habighorst, Peter  
**Sent:** Tuesday, March 15, 2011 12:52 PM  
**To:** Horn, Brian; Tuttle, Glenn; Grice, Thomas; Ward, Steven; Freeman, Eric; Ani, Suzanne; Aguilar, Santiago; Pham, Tom; Ditto, David  
**Subject:** FW: ACTION BRANCH CHIEFS: OIP REQUEST FOR ASSISTANCE

Any interest in a rotation to OIP??? Please provide your desires by noon tomorrow... thanks

**From:** Tschiltz, Michael  
**Sent:** Tuesday, March 15, 2011 12:44 PM  
**To:** Smith, Brian; Hiltz, Thomas; Habighorst, Peter; Campbell, Larry; Silva, Patricia; Johnson, Robert  
**Cc:** Bailey, Marissa; Kinneman, John  
**Subject:** ACTION BRANCH CHIEFS: OIP REQUEST FOR ASSISTANCE

Please read highlighted text below and ask your people if anyone is interested in being put on the list...  
Thanks, Mike

**From:** Smith, Shawn  
**Sent:** Tuesday, March 15, 2011 11:45 AM  
**To:** Kokajko, Lawrence; Ordaz, Vonna; Tschiltz, Michael  
**Cc:** Haney, Catherine; Dorman, Dan  
**Subject:** OIP REQUEST FOR ASSISTANCE

Activities involving the evolving situation in Japan are having, and are projected to continue to have, a significant impact upon OIP resources. With this, OIP would like to ask if each of the program offices could identify whether they have staff (preferably staff with international experience) that could be detailed to OIP for a period of, at least initially, 3 to 6 months. Any staff considered for possible rotation to OIP should be aware that they could potentially travel to Japan and be exposed to ionizing radiation. Please note that such identified staff may, or may not, actually be needed. Instead, OIP is hoping to have a list of individuals, with program office blessing, that could be utilized (including with very little or no notice).

Please provide me with names of candidates by COB Wednesday, March 16<sup>th</sup>. If you have any questions or need additional information, let me know.

Thanks.

Shawn Rochelle Smith  
Senior International Program Coordinator  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Mail Stop: EBB1-D2M  
Washington, DC 20555  
Office Phone: (301) 492-3260

Blackberry: (b)(6)  
Fax: (301) 492-3360  
E-mail: Shawn.Smith@nrc.gov

**Ward, Steven**

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**From:** Ward, Steven  
**Sent:** Wednesday, March 16, 2011 10:22 AM  
**To:** Habighorst, Peter  
**Subject:** RE: ACTION BRANCH CHIEFS: Volunteers to Support Agency Response to Japanese Event

Pete,

Please include the following information with my name for request #3. Not sure what they're looking for really short of maybe ex-OIP staffers, but I have done some stuff that I never thought would be relevant to work here.

Experience- Coordinated dose reconstruction project between US and Russia (b)(6)  
(b)(6) coordinating international humanitarian aid efforts, served on a county council for coordinating disaster response among minority populations in metropolitan areas (addressed topics such as how do you communicate disaster information to people from over 30 countries, speaking over 25 different languages when your primary responders all speak one language, etc.), experience working with IAEA and the World Institute for Nuclear Security (WINS).

Thanks!

Steve

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**From:** Habighorst, Peter  
**Sent:** Wednesday, March 16, 2011 10:04 AM  
**To:** Grice, Thomas; Horn, Brian; Tuttle, Glenn; Pham, Tom; Ward, Steven; Freeman, Eric; Ditto, David; Ani, Suzanne; Aguilar, Santiago  
**Subject:** FW: ACTION BRANCH CHIEFS: Volunteers to Support Agency Response to Japanese Event  
**Importance:** High

See expansion of volunteers for support...

If interested, please provide to me by noon today with requested information. Steve and Eric I have already put your names in the hat for request number 3...

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**From:** Tschiltz, Michael  
**Sent:** Wednesday, March 16, 2011 9:52 AM  
**To:** Smith, Brian; Johnson, Robert; Habighorst, Peter; Campbell, Larry; Silva, Patricia  
**Cc:** Bailey, Marissa; Kinneman, John; Smith, James  
**Subject:** ACTION BRANCH CHIEFS: Volunteers to Support Agency Response to Japanese Event  
**Importance:** High

Branch Chiefs.. we are expected to ensure that the people have appropriate experience for the positions that they are volunteering to fill.

The Division needs to compile a list of volunteers today so please submit to me NLT 2:00 pm this afternoon, if you have any questions about the different positions please discuss with me.

Thanks, Mike

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**From:** NMSSBOX Resource  
**Sent:** Wednesday, March 16, 2011 9:45 AM

**To:** NMSS Distribution

**Subject:** Action: Volunteers to Support Agency Response to Japanese Event

Volunteers to Support Agency Response to Japanese Event

Yesterday, I received several requests to identify individuals who would be interested in responding to the Japanese event. Specifically,

1. NSIR has asked for volunteers who would staff selected positions in the Ops Center. These positions are listed below. Obviously, previous Ops Center training and experience is preferred but NSIR is now considering others. Note, you will be volunteering for shift work (either 8 hr or 12 hr) as the Ops Center is being staffed 24/7.
2. NSIR has asked us to identify individuals who will be sent to replace the team that has been deployed to Japan. The qualifications have not been specified but I believe they are looking for individuals with BWR and/or severe accident mitigation experience. The new team is targeted to leave on March 27 and return on April 9.
3. OIP has asked us to identify individuals, who (1) have had desk officer or other international experience and (2) are interested in helping them in the event that current staff cannot meet their work demands. (These individuals could be deployed to Japan with the team under 2 above.)

If you are interested in any of these opportunities and your workload supports this effort, please discuss your interest with your Branch Chief ASAP. I have asked that the Divisions provide me a consolidated list of volunteers by COB today, March 16.

Information needed –

Opportunity 1 – name, current job title, Ops Center Position of interest, previous training/experience in Ops Center or similar position (outside the Agency).

Opportunity 2 – name, current job title, status of passport, brief description of experience/training that supports this type of assignment.

Opportunity 3 – name, current job title, brief description of international experience/training that would support this assignment.

Ops Center Positions currently being staffed as of March 14.

Liaison Team

LT Director

LT Coordinator

LT Federal Liaison (2)

LT Congressional Liaison (2)

LT International Liaison (2)

Protective Measures Team

PMTR Director

PMTR Coordinator

PMTR Protective Actions Assistant Director

PMTR RAAD (Radiological Assessment Assistant Director)

PMTR Dose Assessment (RASCAL)

RASCAL Developer

PMTR GIS Analyst (Geographical Information Systems)

PMTR Meteorologist

Reactor Safety Team

RST Director

RST Coordinator

Severe Accident / PRA

BWR Expert

RST Comm / ERDS Operator

RST Support (Seismology Q&A)

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**From:** info@ecologicalinternet.org on behalf of Patrick O'Neil (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:40 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Patrick O'Neil  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government



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**From:** info@ecologicalinternet.org on behalf of Holger Tressin (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:40 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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With grave concern,

Holger Tressin

Germany

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Jon Levin (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:41 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Jon Levin  
United States  
(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Celeste Davis (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:39 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Celeste Davis  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sterling Showers (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Sterling Showers  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government



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**From:** info@ecologicalinternet.org on behalf of Barbara Sultan (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:31 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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With grave concern,

Barbara Sultan

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

**From:** info@ecologicalinternet.org on behalf of Rosemarie Sardinas Herrera (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Rosemarie Sardinas Herrera  
Netherland Antilles

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Kathy Duke (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:44 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Kathy Duke  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Michael Maggied (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:44 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Michael Maggied  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government



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**From:** info@ecologicalinternet.org on behalf of Debby Baker (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:44 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Debby Baker  
United States  
(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Fabian Pedrazzini (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:46 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Fabian Pedrazzini

China

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of John Bowen (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:48 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

John Bowen  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Carrie Staton (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:48 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Carrie Staton  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government



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**From:** info@ecologicalinternet.org on behalf of Harry Hochheiser (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:49 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Harry Hochheiser  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

## **Satorius, Mark**

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**From:** Cohen, Shari  
**Sent:** Wednesday, March 16, 2011 8:55 AM  
**To:** Schwarz, Sherry; Dean, Bill; Lew, David; Roberts, Darrell; Wilson, Peter; McCree, Victor; Wert, Leonard; Casto, Chuck; Croteau, Rick; Munday, Joel; Satorius, Mark; Pederson, Cynthia; West, Steven; Reynolds, Steven; Collins, Elmo; Howell, Art; Kennedy, Kriss; Vogel, Anton  
**Cc:** Leeds, Eric  
**Subject:** 11:00 a.m. (EST) Telcon w/ Regions Re: Japan (phone: 888-469-2155/(b)(6))

Mr. Eric Leeds has requested a teleconference with the regions. He wants to update you and ask for your support – teleconference information below:

Phone: 888-469-2155

Pass code: (b)(6)

Headquarters:

Eric Leeds

Please forward to appropriate AA and DAAs (actors or delegation of authority):

Region 1: Bill Dean, David Lew, Darrell Roberts, Peter Wilson

Region 2: Victor McCree, Len Wert, Chuck Casto, Richard Croteau, Joel Munday

Region 3: Mark Satorius, Cindy Pederson, Steve West, Steve Reynolds

Region 4: Elmo Collins, Art Howell, Kriss Kennedy, Anton Vogel

Shari Cohen, Contract Secretary  
Office of Nuclear Reactor Regulation, USNRC  
Room – O-13H18 / Mail Stop - O13H16M  
Phone – 301-415-1270  
Fax - 301 - 415-8333  
Email - [shari.cohen@nrc.gov](mailto:shari.cohen@nrc.gov)

**Satorius, Mark**

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**From:** West, Steven  
**Sent:** Tuesday, March 15, 2011 4:29 PM  
**To:** Satorius, Mark  
**Subject:** FW: Fukushima

Mark,

FYI.

Steve

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**From:** Ring, Mark  
**Sent:** Tuesday, March 15, 2011 3:56 PM  
**To:** Shear, Gary; West, Steven  
**Subject:** FW: Fukushima

Steve and Gary,

I received this e-mail from a former NRC RIII inspector who also was my GE Station Nuclear Engineer course instructor prior to joining NRC. While he no longer works for NRC and (b)(6) know a lot about nuclear fuel and degraded core stuff. Forwarding it for info, in case we could use this sort of expertise.

-Mark

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**From:** Kambiz Salehi [mailto:(b)(6)]  
**Sent:** Tuesday, March 15, 2011 2:02 PM  
**To:** Ring, Mark  
**Subject:** Fukushima

Hello Mark:

Hope all is well with you and your family.

What a horrific event in Japan. It just blows my mind to consider the impact of losing all ECCS, D/G and all potential sources of water for core cooling. What is ironic is that I was very familiar with Fukushima, (my earlier SRO was on a similar type plant.) and as you know full well my specialty was fuel design. I taught Degraded Core Training courses to BWR engineers and managers in the US and abroad. All the various fuel design features by GE to contain hydrogen inside the fuel rods have gone by the way side. I heard they had the breach in the primary containment (PC). I don't recall if those earlier designs had retrofitted by placing hydrogen burners inside the PC or not. Anyhow, it is indeed a very sad and difficult situation.

I heard both GE and NRC staff are in Japan. With radiation exposure, they must be burning people very fast. If you know of a need at the NRC to have support, I am available to provide. I live alone and can be ready in a moment notice. You may forward to those decision makers who are in need of such support.

(b)(6)

Kambiz Salehi

Contact information:

(b)(6)

**Satorius, Mark**

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**From:** Richard Luke (b)(6)  
**Sent:** Sunday, March 13, 2011 8:07 AM  
**To:** Satorius, Mark  
**Subject:** JAPAN

Any insight what happened or current condition with the plant?

Rich

AAAA/69

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**From:** info@ecologicalinternet.org on behalf of MC Wong (b)(6)  
**Sent:** Wednesday, March 16, 2011 11:55 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

MC Wong  
Malaysia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Bahri Aliriza (b)(6)  
**Sent:** Wednesday, March 16, 2011 11:55 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Bahri Aliriza  
Polytrade International Corp.  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Janet Forman (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:55 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Janet Forman  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Lubomir Moudry (b)(6)  
**Sent:** Wednesday, March 16, 2011 5:56 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Lubomir Moudry

Czech Republic

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Dominique Mazeaud (b)(6)  
**Sent:** Wednesday, March 16, 2011 5:56 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Dominique Mazeaud

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Brad Martin (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:53 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Brad Martin  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Marcia Green (b)(6)  
**Sent:** Wednesday, March 16, 2011 9:55 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Marcia Green  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Candy LeBlanc (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:35 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

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AAAA/77

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With grave concern,

Candy LeBlanc

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of B. Thomas Diener  
**Sent:** (b)(6)  
**To:** Thursday, March 17, 2011 4:10 PM  
**Subject:** FOIA Resource  
Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

B. Thomas Diener  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government.

**From:** info@ecologicalinternet.org on behalf of Susan Jacoby (b)(6)  
**Sent:** Thursday, March 17, 2011 5:28 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Susan Jacoby

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Vera Koller (b)(6)  
**Sent:** Thursday, March 17, 2011 2:41 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Vera Koller  
Switzerland

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Doug Landau  
(b)(6)  
**Sent:** Thursday, March 17, 2011 1:53 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Doug Landau  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Chantal Buslot (b)(6)  
**Sent:** Thursday, March 17, 2011 1:45 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Chantal Buslot

Belgium

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of V Bostock (b)(6)  
**Sent:** Thursday, March 17, 2011 12:57 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

V Bostock  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

**From:** Doolittle, Elizabeth  
**To:** Kokajko, Lawrence; Smith, Shawn  
**Cc:** Haney, Catherine; Dorman, Dan  
**Subject:** RE: Action: Volunteers to Support Agency Response to Japanese Event  
**Date:** Wednesday, March 16, 2011 4:40:38 PM

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Thank you, Lawrence.

Beth

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**From:** Kokajko, Lawrence  
**Sent:** Wednesday, March 16, 2011 4:39 PM  
**To:** Smith, Shawn; Doolittle, Elizabeth  
**Cc:** Haney, Catherine; Dorman, Dan  
**Subject:** FW: Action: Volunteers to Support Agency Response to Japanese Event

Please note responses below.

**From:** Compton, Keith

I am willing to be considered for support for Item 1 below. I do not believe that I have the requisite experience for items 2 or 3.

Current job title: Sr. Systems Performance Analyst; Previous training/experience in Ops Center or similar: None.

Ops Center Position of interest: I have knowledge in environmental radiological dose assessment (e.g., doses from radiological contamination of the environment and long-term exposures), and some experience with atmospheric transport. I have no experience with RASCAL, although (quite some time ago) I used other atmospheric transport codes and understand the basics of how atmospheric transport is modeled, focused on the modeling of deposition to ground (again, I am more focused on long-term impacts). If I were to receive adequate training on the use of the RASCAL code, I could probably operate that code if I was paired with a more experienced individual who could check my work.

Note: the primary concern would be the rustiness of my training and lack of experience with RASCAL specifically (could be remedied if time allowed and I was dedicated to that task) and the time conflict with working on getting the EST program rolling and other high-priority work, as I think that those will be impacted if I am pulled away for the requisite training and support. I will discuss the issue of shift work or non-regular hours with my wife, but I believe that we can manage something if there is a need for my services. I therefore consider myself as a possible backup if there is a pressing need for environmental dose assessment experience. Please let me know if you have any questions.

**From:** Hill, Britain

I would like to be considered for OIP support. I am generally familiar with international programs, and have done some work with IAEA.

I also have additional experience in plume modeling, GIS analysis, and have conducted extended field ops in remote (non radiologic) terranes. While not a specialist in seismology, I have a general knowledge of seismology and extreme natural events. If these skills can be of use, please add my name to the potential support list.

**From Jim Rubenstone**

AAAA/84

John Bradbury (Geochemist) and Dave Brooks (Senior Project Manager) have volunteered to staff positions in the Ops Center as needed. Neither have specific experience with emergency response or in the named areas, but are willing to learn.

Dr. Tianqing Cao has also indicated that, as a technical expert in seismology and earthquake hazards, he can be available to provide information and answer questions, if it is possible to contribute remotely from (b)(6) without being on site here at HQ.

Jim Rubenstone is willing to serve in the Ops Center if needed (from the list of positions, he has some experience with GIS analysis, and could also provide support on earthquake/natural hazards). He is also willing to support OIP if needed, including travel to Japan. My government (b)(6) and I have some experience with international travel, as well as my expertise in Earth Sciences. I understand that this needs to consider my current responsibilities (b)(6) on April 9).

### **Others with special experiences**

Anita Gray – PhD, HP for Ops Center support (but I note that (b)(6))

Bret Leslie – PhD, geologic background and risk assessment, for OIP support, (b)(6)

Tae Ahn – PhD, materials notably corrosion, Zr/water and other materials issues associated with cask systems, (b)(6)

Aby Mohseni – protective measures team leader, core damage training and response, crisis management training, SES (b)(6)

Jack Davis – nuclear engineering/criticality, SES (b)(6)

Lawrence Kokajko – a long time ago prior to NRC, I held SRO license on GE-BWR/Mark 1 containment, operations instructor as utility employee and contractor (conducted degraded core cooling classes and trained as plant emergency director), (b)(6)

(b)(6) Note that I am currently planning (b)(6) but would be would be willing to discuss options from (b)(6) on March 27 if known ahead of time.

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**From:** info@ecologicalinternet.org on behalf of Gaile Carr (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:37 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

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It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Gaile Carr  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of John Pasqua (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:37 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

John Pasqua

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** .....@ecologicalinternet.org on behalf of Madhu Pillai  
(b)(6)  
**Sent:** Wednesday, March 16, 2011 10:37 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Madhu Pillai  
Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Lisa Burton (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:36 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Lisa Burton

Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Suzanne Ward (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:35 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Suzanne Ward  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Alejandra Vega (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:46 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Alejandra Vega

Argentina

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Bonnie McLean (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Bonnie McLean

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** fo@ecologicalinternet.org on behalf of Caleb Laieski (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:40 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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AAAA/92

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With grave concern,

Caleb Laieski

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Norman C. Koerner (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:50 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Norman C. Koerner  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Joseph I. Vincent (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:49 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Joseph I. Vincent  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Helen Vassos (b)(6)  
**Sent:** Wednesday, March 16, 2011 10:48 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Helen Vassos

Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Phaedra Kossow-Quinn  
**Sent:** (b)(6)  
**To:** Wednesday, March 16, 2011 11:52 PM  
**Subject:** FOIA Resource  
Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Phaedra Kossow-Quinn  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sylvia Rose Smith  
(b)(6)  
**Sent:** Wednesday, March 16, 2011 11:51 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Sylvia Rose Smith

Canada

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of John Richkus (b)(6)  
**Sent:** Wednesday, March 16, 2011 11:50 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

John Richkus

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Craig Zimmerman (b)(6)  
(b)(6)  
**Sent:** Wednesday, March 16, 2011 11:46 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Craig Zimmerman  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Art Hanson (b)(6)  
**Sent:** Wednesday, March 16, 2011 11:43 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Art Hanson  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government