

From: Andersen, James
To: Kasputys, Clare
Cc: Jacobs-Baynard, Elizabeth; Muessle, Mary; Trapp, James
Subject: RE: House Hearing on March 16th and Briefing to the Senate Committee on EPW on March 14th
Date: Friday, March 11, 2011 1:35:34 PM

They just had a Commission TA call, OPA is very involved and has taken the lead, they did not mention Q&As needed, we probably already have them from previous earthquakes.

From: Kasputys, Clare
Sent: Friday, March 11, 2011 1:30 PM
To: Muessle, Mary; Andersen, James
Cc: Jacobs-Baynard, Elizabeth
Subject: Fw: House Hearing on March 16th and Briefing to the Senate Committee on EPW on March 14th

Mary and Jim,
I assume that we are starting to prepare Q's + A's related to the Japan earthquake and the nuclear power plants. For example, can existing and new reactor plant withstand a quake the magnitude of the Japan quake. What are we doing to support Japan? Etc.
Clare
Sent from my Blackberry

From: Jacobs-Baynard, Elizabeth
To: Kasputys, Clare
Sent: Fri Mar 11 11:09:17 2011
Subject: FW: House Hearing on March 16th and Briefing to the Senate Committee on EPW on March 14th

See attached information. Thanks for checking in with me.

Liz

From: Ojeda, Jennifer
Sent: Thursday, March 10, 2011 10:16 AM
To: Jacobs-Baynard, Elizabeth; Decker, David; Dyer, Jim
Cc: Golder, Jennifer; Smolik, George; Allwein, Russell; Hudson, Sharon
Subject: House Hearing on March 16th and Briefing to the Senate Committee on EPW on March 14th

Attached are the following:

- 1) Latest slides for the FY 2012 Budget Briefing to the Senate Committee on EPW on March 14th
- 2) Latest questions and answers for the FY 2012 Budget Briefing to the Senate Committee on EPW on March 14th as well as for the FY 2012 Budget House Hearing on March 16th.

The OEDO is gathering the various schedules (licensing, fuel facility, etc) to add to the questions and answers.

Jenny Ojeda

III/1

Senior Program Analyst
OCFO/DPB/BAB
301-415-7599
T9D20

OIP IT Services Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 11:38 AM
To: Breskovic, Clarence
Subject: Japan Update: Evcuations ordered around Fukishima

Contents

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Japan Orders Evacuation of Residents Near N-plant

Tokyo, March 11 (Jiji Press) -- The government on Friday ordered evacuation of residents in a 3-kilometer radius from a quake-hit Tokyo Electric Power Co. nuclear power plant in Fukushima Prefecture, northern Japan, citing a possible radiation leak.

The government, however, has confirmed no radiation leak so far. The evacuation order was issued after the 8.8-magnitude quake hit northern Japan to have all the three reactors at the power plant shut down automatically.

Chief Cabinet Secretary Yukio Edano said at a news conference that the government called for preemptive evacuation, urging the 5,862 residents to stay calm in following the order.

The government also instructed 45,345 residents living outside the area but in a 10-kilometer radius to stay at home.

According to the Nuclear and Industrial Safety Agency of the Ministry of Economy, Trade and Industry, cooling functions of the No. 2 reactor at the plant have stopped working, affected by a power outage caused by the quake.

The agency is unable to confirm cooling water levels at the reactor and the No.1 reactor. The plant's emergency diesel power generation equipment has stopped working, leading the company to dispatch power supply cars, according to the agency.

As the power supply cars have reached the plant, the company is proceeding with work to resupply electricity to restore cooling functions.

The Fukushima prefectural government has reported that cooling water levels at the No.2 reactor are dropping and warned that continued decline would expose nuclear fuel rods to air to generate radiation.

Reactors were also automatically shut down at the company's Fukushima No. 2 nuclear power station, with emergency supply of cooling water starting at one of them.

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The nuclear safety agency said sufficient cooling water is supplied at the reactor, but tsunami prevented the agency from confirming whether pumps taking in sea water for two other reactors are working properly.

Kyodo: Gsdf Sent To Area Near Fukushima Nuke Plant To Assist Evacuation

Tokyo, March 12 Kyodo -- A total of around 160 Ground Self-Defense Force personnel and a number of large vehicles have been dispatched to an area near the Fukushima No. 1 nuclear plant in Fukushima Prefecture to help evacuate local residents, a senior SDF officer said late Friday.

More than 100 members of a GSDF special unit trained to deal with chemical disasters have been advancing toward the area, SDF chief Ryoichi Oriki said at a news conference at the Defense Ministry.

Some 3,000 residents near the nuclear plant have been ordered to evacuate due to a problem with a cooling system detected at one of the six reactors at the Tokyo Electric Power Co. plant.

Meanwhile, liaison officers from U.S. Forces Japan were being sent to the ministry to coordinate the disaster response of the SDF and U.S. forces, he added.

Around 300 aircraft and about 40 vessels of the SDF have been dispatched or are being prepared for dispatch to deal with the disaster, according to the ministry.

3,000 Ordered To Evacuate Near Quake-hit Fukushima Nuclear Plant

Tokyo, March 11 Kyodo -- (EDS: ADDING GOV'T SPOKESMAN'S COMMENTS) Japan declared a state of atomic power emergency Friday after the country, which has about 50 nuclear power reactors, was hit by a powerful earthquake, instructing around 3,000 residents near the Fukushima No. 1 plant to evacuate.

Japan's top government spokesman Yukio Edano told an evening press conference, "We have a situation where one of the reactors (of the plant) cannot be cooled down." But the chief Cabinet secretary said the evacuation instruction was only precautionary.

"No radiation has leaked outside the reactor. The incident poses no danger to the environment at the moment," Edano said.

The post-quake situation prompted the Vienna-based International Atomic Energy Agency to scramble for details from contacts with Japan's industry ministry, while saying in a statement that at least four nuclear power plants "closest to the quake have been safely shut down" after the 2:46 p.m. quake.

Tokyo Electric Power Co., the operator of the Fukushima plant, reported that the level of the water surrounding the fuel rods was going down in the reactor.

Radioactive materials could be emitted if part of a rod is exposed to the air.

But officials of the prefectural government dismissed a view that the plant is in any critical situation, saying the top of the water is 3.4 meters above the fuel rods at the troubled No. 2 reactor.

The evacuation advisory was issued for people living within a 3-kilometer radius of the plant, while those living within a 10-kilometer radius were asked to stay home, Edano said.

Prime Minister Naoto Kan declared the emergency even though no radiation leak has been detected after the magnitude 8.8 quake so that authorities can easily implement emergency relief measures, Edano said.

Japanese Defense Minister Toshimi Kitazawa ordered the Self-Defense Forces to act in response to the state of atomic power emergency. Also, the Defense Ministry dispatched a chemical corps of the Ground Self-Defense Force to the plant.

Motohisa Ikeda, senior vice industry minister, also left Tokyo for Fukushima on Friday evening by an SDF helicopter.

According to the industry ministry, a total of 11 nuclear reactors were automatically shut down at the Onagawa plant, Fukushima No. 1 and No. 2 plants and Tokai No. 2 plant after the biggest-magnitude quake in the country's modern history.

At the Onagawa plant in Miyagi Prefecture, a fire started at a building housing the turbine, the operator, Tohoku Electric Power Co., said, denying it detected any signs of radiation leaks.

Water spilled from pools containing fuel rods at the Kashiwazaki-Kariwa plant on the Sea of Japan coast in Niigata Prefecture and the Onagawa plant, the operators said, saying they saw no signs suggesting radiation leaks.

Hokkaido Electric Power Co. reported no problems at its Tomari No. 1, No. 2 and No. 3 plants on the northernmost main island.

There were no immediate signs of any problems at the Hamaoka nuclear plant on the Pacific coast in Shizuoka Prefecture, southwest of Tokyo, the prefectural government said.

Fukushima Pref. Warns of Radiation Leak at N-plant

Fukushima, March 11 (Jiji Press) -- The Fukushima prefectural government on Friday warned that water levels dropped at a reactor of a quake-hit Tokyo Electric Power Co. <9501> nuclear power plant, posing a threat of a radiation leak.

If the water levels at the No.2 reactor at the Fukushima No. 1 nuclear power station of the company keep falling, nuclear fuel rods would be exposed to air to generate radiation, according to the prefecture.

The prefecture urged residents in a 2-kilometer radius from the reactor to immediately evacuate.

OIP_ITServices Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 12:02 PM
To: Breskovic, Clarence
Subject: U.S. delivers coolant to Japan nuclear plant: Clinton/ Plant Being Cooled

WASHINGTON | Fri Mar 11, 2011 11:05am EST

WASHINGTON (Reuters) - The United States has transported coolant to a [Japanese](#) nuclear plant affected by a massive earthquake and will continue to assist Japan, Secretary of State Hillary Clinton said on Friday.

"We just had our Air Force assets in Japan transport some really important coolant to one of the nuclear plants," Clinton said at a meeting of the President's Export Council.

"You know Japan is very reliant on nuclear power and they have very high engineering standards but one of their plants came under a lot of stress with the earthquake and didn't have enough coolant," Clinton said.

Japan Reactor Being Cooled

LONDON, March 11 (Reuters) - The World Nuclear Association, the main nuclear industry body, said on Friday that it understood the situation at Japan's Fukushima plant after a massive earthquake was under control, and water was being pumped into its cooling system.

"We understand this situation is under control," an analyst at the association told Reuters.

The Japanese government had declared an emergency situation around the plant as a precaution and evacuated residents, saying a cooling system was not working.

The analyst said he understood that a back-up battery power system had been brought online after about an hour, and begun pumping water back into the cooling system, where the water level had been falling.

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OIP_ITServices Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 2:44 AM
To: Breskovic, Clarence
Subject: Japan: Onagawa and Fukushima plants shut down

Nuclear Plants Shut Down in Miyagi, Fukushima

Tokyo [Kyodo World Service](#) 0707 GMT 11 Mar 11

Tokyo, March 11 Kyodo -- (EDS: ADDING INDUSTRY MINISTRY INFO, INFO ON HOKKAIDO, FIXING OPERATOR) Nuclear plants on the Pacific coast in Miyagi and Fukushima prefectures have been automatically shut down Friday following a powerful earthquake that hit a wide area in northeastern Japan, the operators said.

There were no immediate reports from monitoring posts of fires or other abnormalities near the nuclear plants after the 2:46 p.m. quake, the industry ministry said.

The suspended power plants were the Onagawa plant in Miyagi Prefecture, operated by Tohoku Electric Power Co., and the Fukushima No. 1 and No. 2 plants in the adjacent Fukushima Prefecture, run by Tokyo Electric Power Co., according to the companies.

Tokyo Electric also said it kept operating the Kashiwazaki-Kariwa nuclear plant on the Sea of Japan coast in Niigata Prefecture, while Hokkaido Electric Power Co. reported no problems at its Tomari No. 1, No. 2 and No. 3 plants in the northernmost main island.

There were no immediate signs of any problems at the Hamaoka nuclear plant on the Pacific coast in Shizuoka Prefecture, southwest of Tokyo, the prefectural government said.

More USGS data:

Magnitude 7.1 - OFF THE EAST COAST OF HONSHU, JAPAN

2011 March 11 06:25:50 UTC

<http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/usc0001xig.php#details>

OIP_ITServices Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 3:29 AM
To: Breskovic, Clarence
Subject: Japan earthquake: Government Says No radioactive leaks at Tohoku nuke plants

Govt: No radioactive leaks at Tohoku nuke plants

The government's Nuclear and Industrial Safety Agency says no abnormal levels of radiation have been reported at four nuclear power plants in the quake-hit Tohoku region.

Power companies have suspended the operation of the plants and are checking their safety.

NHK News, Friday, March 11, 2011 15:34 +0900 (JST)

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OIP_ITServices Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 4:06 AM
To: Breskovic, Clarence
Subject: Japan: No Radiation Leaks Or Abnormalities - 11 reactors shut down

No Radiation Leaks Or Abnormalities in Quake-hit Japan: Prime Minister Kan

Tokyo, March 11 Kyodo -- (EDS: RECASTING) Japan has detected no abnormalities such as radiation leakage at nuclear power plants in the country, Prime Minister Naoto Kan said Friday, following a powerful earthquake and aftershocks that hit a wide area on the Pacific coast of the northeastern region.

A total of 11 nuclear reactors were automatically shut down at the Onagawa plant, Fukushima No. 1 and No. 2 plants and Tokai No. 2 plant, the industry ministry said, adding there were no immediate reports from monitoring posts of fires or other abnormalities near the nuclear plants after the 2:46 p.m. quake.

Kan told a press conference, "Parts of nuclear plants were automatically shut down but we haven't confirmed any effects induced by radioactive materials outside the facilities." Tokyo Electric Power Co., which operates the Fukushima plants, said it kept operating the Kashiwazaki-Kariwa nuclear plant on the Sea of Japan coast in Niigata Prefecture, while Hokkaido Electric Power Co. reported no problems at its Tomari No. 1, No. 2 and No. 3 plants on the northernmost main island.

There were no immediate signs of any problems at the Hamaoka nuclear plant on the Pacific coast in Shizuoka Prefecture, southwest of Tokyo, the prefectural government said.

III/v

From: World Nuclear News [wnn=world-nuclear-news.org@mail282.us2.mcsv.net] on behalf of World Nuclear News [wnn@world-nuclear-news.org]
Sent: Friday, March 11, 2011 12:08 PM
To: Smirolodo, Elizabeth
Subject: WNN Daily: Massive earthquake hits Japan

[View the WNN Daily in your browser.](#)



Today's top stories

11 March 2011

REGULATION AND SAFETY: Massive earthquake hits Japan

Nuclear reactors shut down during today's massive earthquake in Japan. Official sources have reported no detected radioactive release but are still monitoring the situation, meanwhile work to establish adequate cooling at Fukushima Daiichi continues.

CORPORATE: Areva, Rolls-Royce team up for UK EPRs

Areva has signed an industrial cooperation agreement with the UK's Rolls-Royce for the manufacture of components for nuclear energy related projects both in the UK and overseas.

REGULATION & SAFETY: US nuclear regulator OKs Vermont Yankee extension

The US Nuclear Regulatory Commission has said that it will renew the operating licence for the Vermont Yankee nuclear power plant for a further 20 years, although the regulator does not have the final say in the plant's future operation.

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OIP ITS Services Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 3:38 AM
To: Breskovic, Clarence
Subject: Japan earthquake/tsunami - more reactors shut down

Powerful Quake Hits Northeastern Japan

Tokyo, March 11 (Jiji Press) -- An extremely powerful earthquake hit the northeastern Japan region of Tohoku at 2:46 p.m. Friday (5:46 a.m. GMT).

The quake, which also rocked a wide range of areas including Tokyo, eastern Japan, measured 7, the upper limit of the Japanese seismic intensity scale, in northern Miyagi Prefecture in the Tohoku region. Its magnitude was estimated at 7.9, the Meteorological Agency said.

The agency issued a heightened tsunami alert to residents in the prefectures of Iwate, Miyagi and Fukushima along the Pacific coast.

A tsunami with an estimated height of more than 10 meters reached the shore of Miyagi Prefecture, the agency said.

The focus of the quake is located off Miyagi Prefecture and is 10 kilometers deep.

Tohoku Electric Power Co. halted its Onagawa nuclear power plant, according to the industry ministry's Nuclear and Industrial Safety Agency.

Tokyo Electric Power Co. officials said the No. 1 to No. 3 reactors of its first Fukushima nuclear plant was shut down automatically.

Operations of the firm's second Fukushima plant's No. 1 to No. 4 reactors were also suspended.

Japan Atomic Power Co. halted its Tokai nuclear power plant in Ibaraki Prefecture.

According to Miyagi police, many portions of the Tohoku Expressway were damaged.

The Tokyo Fire Department reported several injuries in central Tokyo and fires in 10 places including Daiba and Ikebukuro.

Tohoku Electric said power outage affects all areas in Aomori, Akita and Iwate Prefectures and almost all areas in Yamagata and Miyagi Prefectures.

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OIP_ITServices Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 2:50 AM
To: Breskovic, Clarence
Subject: Japan: Onagawa map and details

<http://world-nuclear.org/NuclearDatabase/reactordetails.aspx?id=27570&rid=CA833697-1FFF-4CBB-B729-74C88B99295B>

III/9

OIP ITServices Resource

From: Schwartzman, Jennifer
Sent: Friday, March 11, 2011 3:29 PM
To: Stahl, Eric; Abrams, Charlotte; Owens, Janice; Dembek, Stephen
Cc: Fragoyannis, Nancy
Subject: URGENT Ops Center Staffing needed tonight

Importance: High

All,

The ops center needs to staff a liaison team for a 12-hour shift tonight (7 PM-7 AM) to continue monitoring the situation in Japan. They also need some volunteers to staff shifts tomorrow in the event the situation continues.

The OIP people currently on the emergency response personnel team list are:

Jenny Tobin
Kirk Foggie
Danielle Emche
Gerri Fehst
Brian Wittick
Eric Stahl
Steve Baker
Brooke Smith
Jen Schwartzman

They will need two staff from international for tonight - one to come in and one on standby via cell phone at home. Can you please help us find out whether any of these folks are available? I will likely be able to come in tomorrow but I am not able to come in tonight because my husband is working late and I have to take care of Sara. There is also a chance the entire 12-hour shift will not be necessary. The overtime could be compelling.

Thanks!

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OIP_ITServices Resource

From: Breskovic, Clarence
Sent: Friday, March 11, 2011 2:37 AM
To: Breskovic, Clarence
Subject: Powerful quake rocks northern Japan - Onagawa reactor automatically shuts down

Friday, March 11, 2011

Powerful quake rocks northern Japan

Kyodo News

A powerful earthquake with a magnitude of 7.9 rocked northeastern Japan on Friday, measuring the highest level intensity of 7 on the Japanese seismic scale, in Miyagi Prefecture, the Japan Meteorological Agency said.

Local police said many people were injured in the 2:46 p.m. quake, with reports of fires coming not only from the prefectural capital of Sendai but also from Tokyo, some 300 kilometers from Sendai, where a prolonged and powerful temblor was also felt.

The Metropolitan Police Department said many people were injured when part of the Kudan Kaikan hall in Chiyoda Ward in central Tokyo collapsed.

The agency issued a rare warning of huge tsunami for the Pacific coastal region including Iwate Prefecture. Public broadcaster NHK said a large number of cars were washed away into the sea when a tsunami hit the Kamaishi port in Iwate Prefecture.

In Kyodo News' Sendai office, part of the ceiling collapsed and bookshelves and office equipment toppled over.

Fires occurred across a wide area, including at an ironworks in Chiba Prefecture.

Onagawa nuclear power plant in Miyagi Prefecture automatically halted operations following the quake. Its operator, Tohoku Electric Power Co., was checking whether any damage was caused.

A major blackout occurred across a wide area of northeastern Japan.

The quake affected the nation's key transportation systems, including Narita airport, which shut its runways for safety checks.

USGS earthquake map:

http://earthquake.usgs.gov/earthquakes/recenteqsww/Maps/10/140_35.php

<http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/usc0001xka.php#details>

Matakas, Gina

From: LIA07 Hoc
Sent: Saturday, March 12, 2011 11:46 PM
To: Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Haral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Subject: 2330 Japan status update
Attachments: USNRC Earthquake-Tsunami Update.031211.2330EST.docx

III/12

From: World Nuclear News [wnn=world-nuclear-news.org@mail55.us2.mcsv.net] on behalf of World Nuclear News [wnn@world-nuclear-news.org]
Sent: Sunday, March 13, 2011 7:41 AM
To: Smiroldo, Elizabeth
Subject: WNN Special Update: 13 March 2011

SPECIAL UPDATE

[View the WNN Daily in your browser.](#)



Today's top stories

13 March 2011

Venting and seawater injection at Fukushima Daiichi unit 3

Operations to relieve pressure in the containment of Fukushima Daiichi 3 have taken place after the failure of a core coolant system. Seawater is being injected to make certain of core cooling.

Tepco has reported it has not been able to restart unit 3's high pressure injection system after an automatic stop. This left the reactor without sufficient coolant and obligated Tepco to notify government of an emergency situation.

Preparations for potential pressure relief had already been underway for many hours and Tepco manually vented the containment between 8.41am and 9.20am on March 13. Injection of fresh water mixed with boron to inhibit nuclear reactions began immediately. Tepco planned to follow this with sustained injection of seawater

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III/13

Dean, Bill

From: LIA07 Hoc
Sent: Sunday, March 13, 2011 10:26 PM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov
Subject: RE: 2200 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031311.2200EDT.docx

Attached, please find a 2200 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 13, 2011. This Update includes information related to NRC's evaluation of radiation measurements from the USS Ronald Reagan.

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

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

-Jim

Jim Anderson
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Matakas, Gina

From: LIA07 Hoc
Sent: Sunday, March 13, 2011 6:31 AM
To: Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tift, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Subject: 0630 Japan event status update
Attachments: USNRC Earthquake-Tsunami Update.031211.0730EST.docx

Hergenroder, Dan

From: LIA07 Hoc
Sent: Sunday, March 13, 2011 2:57 PM
To: Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harrah; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffery; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tiff, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Subject: 1600 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031311.1600EDT.docx

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

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

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

-Sara

Sara K. Mroz
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LIA07.HOC@nrc.gov (Operations Center)

III/16

From: [Jaczko, Gregory](#)
To: [Holdren, John P.](#)
Cc: [Virgilio, Martin](#); [Borchardt, Bill](#)
Subject: FW: 1400 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep
Date: Sunday, March 13, 2011 2:42:20 PM
Attachments: [USNRC Earthquake-Tsunami Update.031311.1400EDT.docx](#)

John – Here is the latest. I have asked the staff to include any assessments of protective measures on future updates that we may be able to provide. I have also asked them to include you directly on the distribution of this information.

Thanks,
Greg

From: LIA07 Hoc

Sent: Sunday, March 13, 2011 2:33 PM

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

Subject: 1400 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 1400 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 13, 2011.

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

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

-Sara

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

THIR

OIP ITServices Resource

From: Operations Center Bulletin
Sent: Sunday, March 13, 2011 11:12 AM
To: OST02 HOC
Subject: FW: NRC IS RESPONDING TO AN EMERGENCY OUTSIDE of the United States

THIS IS NOT A DRILL

The NRC is coordinating its actions with other Federal agencies as part of the U.S. government response to the events in Japan. 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 Incident Responders at Headquarters have spoken with the agency's counterpart in Japan and offered the assistance of U.S. technical experts. Two officials from the NRC with expertise on 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 disasters.

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 in 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. For the latest information on NRC actions see the NRC's web site at www.nrc.gov or blog at <http://public-blog.nrc-gateway.gov>.

Two important reminders:

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

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

Other Sources of Information:

USAID – www.usaid.gov
U.S. Department of State – www.state.gov
FEMA – www.fema.gov
White House – www.whitehouse.gov
Nuclear Energy Institute – www.nei.org
International Atomic Energy Agency – www.iaea.org/press

No response to this message is required.

THIS IS NOT A DRILL

Matakas, Gina

From: LIA07 Hoc
Sent: Sunday, March 13, 2011 8:28 PM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Haral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Subject: RE: 2000 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031311.2000EDT.docx

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

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

-Jim

Jim Anderson
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US Nuclear Regulatory Commission
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LIA07.HOC@nrc.gov (Operations Center)

III/19

Matakas, Gina

From: LIA07 Hoc
Sent: Sunday, March 13, 2011 3:57 PM
To: Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Haral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Subject: 1600 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031311.1600EDT.docx

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

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

-Sara

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

III/20

Matakas, Gina

From: LIA07 Hoc
Sent: Monday, March 14, 2011 4:48 AM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffrey; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell
Cc: LIA09 Hoc; LIA11 Hoc
Subject: RE: 0430 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031411.0430EDT.docx

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

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

-Jim

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

Matakas, Gina

From: LIA07 Hoc
Sent: Monday, March 14, 2011 6:16 AM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Haral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffrey; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell
Cc: LIA09 Hoc; LIA11 Hoc
Subject: RE: 0600 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031411.0600EDT.docx

Attached, please find a 0600 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 14, 2011. This Update includes information on the Japanese request for US Assistance in cooling Fukushima Daiichi Units 1, 2, and 3.

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

-Jim

Jim Anderson
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US Nuclear Regulatory Commission
james.anderson@nrc.gov
LIA07.HOC@nrc.gov (Operations Center)

LIH/22

Matakas, Gina

From: LIA07 Hoc
Sent: Monday, March 14, 2011 10:34 PM
To: Holdren, John P.; maceck@state.gov; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA2; EPA; Franovich, Mike; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; Peter.Lyons@Nuclear.Energy.gov; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; taskforce-1@state.gov; NOC; Charles Donnell; nuclearssa@hq.dhs.gov; RMTFACTSU_ELNRC; Bradford, Anna; Gibbs, Catina; Speiser, Herald; Holdren, John P.; maceck@state.gov; jszymanski@ostp.eop.gov
Subject: 2200 EDT (March 14 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-14 10.10pm.pdf

Attached, please find a 2200 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 14, 2011. This Update includes information related to NRC's evaluation of radiation measurements from the USS Ronald Reagan.

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

-Sara

Sara K. Mroz
Office of Nuclear Security & Incident Response
US Nuclear Regulatory Commission
Sara.mroz@nrc.gov
Lia07.HOC@nrc.gov (Operations Center)

III/23

From: LIA07 Hoc
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell
Cc: LIA09 Hoc; LIA11 Hoc
Subject: RE: 0430 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep
Date: Monday, March 14, 2011 4:47:57 AM
Attachments: USNRC Earthquake-Tsunami Update.031411.0430EDT.docx

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

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-Jim

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

III/24

From: [Leeds, Eric](#)
To: [Bahadur, Sher](#); [Blount, Tom](#); [Brown, Frederick](#); [Cheok, Michael](#); [Evans, Michele](#); [Galloway, Melanie](#); [Glitter, Joseph](#); [Givvines, Mary](#); [Hiland, Patrick](#); [Holian, Brian](#); [Howe, Allen](#); [Lee, Samson](#); [Lubinski, John](#); [McGinty, Tim](#); [Nelson, Robert](#); [Quay, Theodore](#); [Ruland, William](#); [Skeen, David](#)
Cc: [Boger, Bruce](#); [Grobe, Jack](#)
Subject: FW: 0600 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep
Date: Monday, March 14, 2011 7:38:22 AM
Attachments: [USNRC Earthquake-Tsunami Update.031411.0600EDT.docx](#)

Please read.

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

From: LIA07 Hoc *MSR*
Sent: Monday, March 14, 2011 6:16 AM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell
Cc: LIA09 Hoc; LIA11 Hoc
Subject: RE: 0600 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0600 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 14, 2011. This Update includes information on the Japanese request for US Assistance in cooling Fukushima Daiichi Units 1, 2, and 3.

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

-Jim

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

LII/25

Owen, Lucy

From: Howell, Linda
Sent: Monday, March 14, 2011 7:06 AM
To: Collins, Elmo; Howell, Art; Kennedy, Kriss; Pruett, Troy; Vogel, Anton; Maier, Bill; Uselding, Lara
Subject: FW: 2230 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031311.2230EDT.docx

From: LIA07 Hoc
Sent: Sunday, March 13, 2011 9:45 PM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Haral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tift, Doug; Timothy Greden; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov
Cc: LIA09 Hoc
Subject: RE: 2230 EDT (March 13, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 2230 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 13, 2011. This Update includes information on the status of Fukushima Daiichi, Unit 3.

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

-Jim

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

Satorius, Mark

From: LIA07 Hoc
Sent: Monday, March 14, 2011 3:48 AM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tifft, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell
Cc: LIA09 Hoc; LIA11 Hoc
Subject: RE: 0430 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031411.0430EDT.docx

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

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-Jim

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

III/27

Lee, Samson

From: Leeds, Eric
Sent: Monday, March 14, 2011 7:38 AM
To: Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Galloway, Melanie; Glitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David
Cc: Boger, Bruce; Grobe, Jack
Subject: FW: 0600 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031411.0600EDT.docx

Please read.

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

From: LIA07 Hoc
Sent: Monday, March 14, 2011 6:16 AM
To: LIA07 Hoc; Al Coons; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bill King; Bill King 2; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Charles Donnell; Coggins, Angela; Collins, Elmo; Conrad Burnside; D Feighert; D Hammons; Dean, Bill; Decker, David; DIA; DIA2; Dorman, Dan; DOT; Droggitis, Spiros; DTRA; Dudek; EOP; EPA; EPA2; Franovich, Mike; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Harry Sherwood; HHS; Hipschman, Thomas; HOO Hoc; Howell, Linda; J H-L; Jaczko, Gregory; Jim Kish; Johanna Berkey; Johnson, Michael; Kahler, Robert; L Hammond; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Michelle Ralston; Miller, Charles; Miller, Chris; Monninger, John; Nan Calhoun; Navy; Nieh, Ho; NOC; Orders, William; Pace, Patti; Pearson, Laura; Peter Lyons; R McCabe; R Thomson; S Horwitz; Satorius, Mark; Schmidt, Rebecca; Seamus O'Boyle; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Steve Colman; Thomas Zerr; Tift, Doug; Timothy Greten; Trapp, James; Trojanowski, Robert; Vanessa Quinn; W Webb; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Schmidt, Rebecca; Powell, Amy; Loyd, Susan; Coggins, Angela; Batkin, Joshua; taskforce-1@state.gov; NOC; Charles Donnell
Cc: LIA09 Hoc; LIA11 Hoc
Subject: RE: 0600 EDT (March 14, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0600 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 14, 2011. This Update includes information on the Japanese request for US Assistance in cooling Fukushima Daiichi Units 1, 2, and 3.

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

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

-Jim

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

From: PMT02 Hoc
Sent: Monday, March 14, 2011 4:28 PM
To: GIS Hoc
Subject: FW: Latest surface forecast for Japan

From: PMT01 Hoc
Sent: Monday, March 14, 2011 3:27 PM
To: PMT02 Hoc
Subject: FW: Latest surface forecast for Japan

From: HOO Hoc
Sent: Monday, March 14, 2011 2:57 PM
To: PMT01 Hoc; RST01 Hoc; LIA01 Hoc; LIA02 Hoc; LIA04 Hoc; LIA07 Hoc; LIA11 Hoc; LIA12 Hoc; Gott, William; Marshall, Jane; McDermott, Brian; Morris, Scott; Thorp, John
Subject: FW: Latest surface forecast for Japan

From: Vogt, Phil [mailto:vogt4@ltnl.gov]
Sent: Monday, March 14, 2011 2:53 PM
To: nitops@nnsa.doe.gov; HOO Hoc; 'McMichael, Lukas C CIV SEA 08 NR'
Cc: narac@ltnl.gov
Subject: Latest surface forecast for Japan

Here is the latest forecast for the Fukushima Daiichi 1 area.

Date	Hour (UTC)	Speed (m/s)	Dir	Stability	RAIN
14-Mar	18	5.2	347	E	0
	19	5.6	332	E	0
	20	4	332	E	0
	21	3.5	344	E	0.01
	22	3.8	26	E	0.05
	23	4.4	44	E	0.02
	0	4.2	20	E	0.01
15-Mar	1	3.4	10	E	0
	2	3.5	30	D	0.03
	3	3	27	D	0.01
	4	3.4	37	D	0.01
	5	3.7	53	B	0
	6	3.7	58	B	0
	7	3.2	67	C	0.01
	8	3.9	81	C	0.01

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	9	4.7	89	B	0
	10	4.4	85	B	0
	11	4.4	83	B	0.03
	12	4.6	74	C	0.04
	13	5	54	D	0.08
	14	5.6	29	D	0.1
	15	5.1	11	D	0.05
	16	4.3	346	C	0.08
	17	5.3	350	D	0.08
	18	5.6	323	D	0.03
	19	5.4	316	D	0
	20	4.8	298	D	0
	21	5.6	314	D	0
	22	4.7	312	D	0
	23	4.9	331	D	0
16-Mar	0	4.1	353	D	0

From: GIS Hoc
Sent: Monday, March 14, 2011 5:05 PM
To: yong.li@nrc.gov

Yong Li,

I am having trouble getting shape file to update. If you are still here could you stop by the ops ctr??

Thanks,

George

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Dunham, Katrina

From: Jackson, Donald
Sent: Tuesday, March 15, 2011 9:33 PM
To: Jackson, Donald
Subject: Fw: 2000 CA Briefing and Attached Situation Report
Attachments: USNRC Earthquake-Tsunami Update 031511 1930EDT.pdf

Importance: High

Don Jackson Sent Via Blackberry

From: Jackson, Donald
To: Dentel, Glenn; Dean, Bill; Lew, David; Wilson, Peter; Roberts, Darrell; Collins, Daniel; Lorson, Raymond; Baker, Pamela; Walker, Tracy; Clifford, James; Miller, Chris; Weerakkody, Sunil
Cc: Screnci, Diane; Sheehan, Neil; Trapp, James; McNamara, Nancy; Tifft, Doug; Hansell, Samuel; Hinson, Felicia; McKinley, Raymond
Sent: Tue Mar 15 20:59:12 2011
Subject: 2000 CA Briefing and Attached Situation Report

I have attached the 1930 Situation Report Update provided to the Commission TAs. The Chairman joined the phone call at around 2015 to confirm reports of an ongoing Unit 4 fire that was reported on CNN. I have summarized key changes to the previous email from Glenn Dentel in bulletized fashion below. The attachment is a concise comprehensive report of current status.

Unit 1-

- Little Change
- Some Fuel Damage
- SW Injection Working
- Loss of Sec Ctmt

Unit 2-

- **New Report That Primary Containment Appears Intact**
- **Loss of Secondary Containment- TEPCO made a hole in roof to positively vent H2 Gas**
- Some Fuel Damage
- **Less Stable SW Injection**

Unit 3-

- Little Change
- Some Fuel Damage
- SW Injection Working
- Loss of Sec Ctmt

Unit 4-

- Previous Fire determined to be a lube oil fire
- **New fire reported in vicinity of refueling deck, believed to be H2 fire**
- **SFP Level reported to be very low, radiation levels 30 R/hr due to shine**
- **No fire fighting actively due to high rad levels**
- **Fire began 4-5 hours ago**
- **TEPCO plans to remove secondary containment roof or wall section to fight fire externally**

Units 5 and 6-

Hergenroder, Dan

From: LIA07 Hoc
Sent: Tuesday, March 15, 2011 5:02 AM
To: Al Coons; Appleman Binkert; Bill King; Bill King 2; Charles Burrows; Charles Donnell; Conrad Burnside; Dan Feighert; Darrell Hammons; DOE NIT; DOT; DTRA; dudek; Elmer Naples; EOP; EPA; EPA2; Eric Sinibaldi; Gregory Simonson; Harry Sherwood; HHS; J Szymanski; Jim Kish; Johanna Berkey; John Holdren; K Donald; Karyn Keller; Lisa Hammond; Lukas McMichael; Maceck; Michelle Ralston; Nan Calhoun; Navy; NOC; NOC Duty Director; Nuclear SSA; Peter Lyons; Rebecca Thomson; RMT; Ron McCabe; Seamus O'Boyle; State; Stephen Trautman; Steve Colman; Steve Horwitz; Thomas Conran; Thomas Zerr; Tim Greten; Vanessa Quinn; William Webb; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bradford, Anna; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Brendan; Collins, Elmo; Dean, Bill; Decker, David; Dorman, Dan; Droggitis, Spiros; Franovich, Mike; Gibbs, Catina; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; HOO Hoc; Howell, Art; Howell, Linda; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Tifft, Doug; Trapp, James; Trojanowski, Robert; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Subject: 0600 EDT (March 15 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-15.11--0600am.pdf

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

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

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

-Rebecca

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

OIP_ITServices Resource

From: LIA03 Hoc
Sent: Tuesday, March 15, 2011 8:32 PM
To: OIP Distribution
Subject: Long-term Staffing for the Op Center
Attachments: LongTerm-International Liaison Schedule.docx

All,
Your time and assistance at the Operation Center is greatly appreciated.

As the result of a meeting between OIP and EDO management, there is a rough plan of attack as to how we'll move forward in keeping the international liaison desks staffed. It was decided that OIP will staff our desks here until April 15 (unless directed otherwise). The current thought is to keep 2 staff and 1 manager on-hand for each shift (same 7a-3p, 3p-11p and 11p-7a shifts). We are open to ideas about the best ways to break up the days to keep some continuity (the same person being on the same shift for a couple days in a row). Please see the attachment for a **DRAFT** of the staffing plan, it would be the same each week. If/when two staff, is no longer necessary, we can adjust as needed. Management/SLs have not yet worked out their coverage.

Regarding our time spent in the Operation Center, we are getting a waiver for the bi-weekly cap on compensation but will still have to meet the annual requirements.

Brooke and Kirk may be in Japan for up to two weeks and upon their return, OIP may need to send replacement staff for on-the-ground coverage in Japan (potential dispatch March 28). We need to think about how replacements may be well-briefed and who they might be.

Your thoughts would be greatly appreciated as we establish a schedule for the next month.

Thanks for your service and dedication!
-Lia02 and Lia03

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Long-Term International Liaison Coverage

MONDAY

	Manager/SL	Staff
7:00a-3:00p		Mugeh/Skip
3:00p-11:00p		Danielle/Jen
11:00p-7:00a		Andrea/Eric

TUESDAY

	Manager/SL	Staff
7:00a-3:00p		Mugeh/Skip
3:00p-11:00p		Danielle/Jen
11:00p-7:00a		Andrea/Eric

WEDNESDAY

	Manager/SL	Staff
7:00a-3:00p		Mugeh/Skip
3:00p-11:00p		Danielle/Jen
11:00p-7:00a		Andrea/Eric

THURSDAY

	Manager/SL	Staff
7:00a-3:00p		Lance/Steve
3:00p-11:00p		Jenny/Elizabeth
11:00p-7:00a		Brian/Lauren

FRIDAY

	Manager/SL	Staff
7:00a-3:00p		Lance/Steve
3:00p-11:00p		Jenny/Elizabeth
11:00p-7:00a		Brian/Lauren

SATURDAY

	Manager/SL	Staff
7:00a-3:00p		Danielle/Jen
3:00p-11:00p		Andrea/Eric
11:00p-7:00a		Jenny/Elizabeth

SUNDAY

	Manager/SL	Staff
7:00a-3:00p		Danielle/Jen
3:00p-11:00p		Andrea/Eric
11:00p-7:00a		Jenny/Elizabeth

OIP_ITServices Resource

From: Bloom, Steven
Sent: Tuesday, March 15, 2011 4:16 PM
To: Young, Francis; Smioldo, Elizabeth; Carter, Mary; English, Lance; Stahl, Eric
Subject: Long Term Ideas

All,

I am working with Jack Ramsey to come up with what would be needed to support an NRC staff for 3 -6 months over in Japan. I came up with some of my own brainstorming thoughts which are on the paper I left in your office. Please look at my list and think of other items which you may think are necessary to support have member of the NRC over in Japan for about 3 to 6 months.

Thank you,

Steve

Steven Bloom, International Relations Specialist
International Cooperation and Assistance Branch (ICA)
301-415-2431
O-4F4
M/S O-4E21

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OIP_ITServices Resource

From: LIA03 Hoc
Sent: Tuesday, March 15, 2011 5:29 PM
To: OIP Distribution
Subject: Other Country Response to the Japanese Emergency

All,
There has been interest here in the Operation Center as to how other countries are responding to the events in Japan.
Please let us know if your countries are sending teams, experts or aides to Japan to help out during this time of need.

Thanks!
-Jenny

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OIP_ITServices Resource

From: Health Center
Sent: Tuesday, March 15, 2011 3:28 PM
To: Smioldo, Elizabeth
Subject: RE: Japan Profile.docx

Thanks Elizabeth,

We saw a number of travelers yesterday. I was just concerned that you did not get the information to Mr. Foggie.

Thanks again

Vernetta

From: Smioldo, Elizabeth
Sent: Tuesday, March 15, 2011 3:13 PM
To: Health Center
Subject: RE: Japan Profile.docx

Hello, Vernetta,
Kirk asked me to look into this for him. I spoke to someone at the Health Center yesterday by phone and believe the issue has been resolved. The travelers have all departed. The representative said that the Health Center team was working on this very issue, so I'm sure that everyone who needed a vaccination received one.
Many thanks,
Elizabeth

From: Health Center
Sent: Tuesday, March 15, 2011 1:21 PM
To: Smioldo, Elizabeth
Subject: RE: Japan Profile.docx

Ms. Smioldo,

Please call me on 415-8400 regarding your email.

Vernetta

From: Smioldo, Elizabeth
Sent: Monday, March 14, 2011 1:47 PM
To: Health Center
Cc: Foggie, Kirk
Subject: FW: Japan Profile.docx
Importance: High

Hello,

Kirk Foggie of the Office of International Programs will be traveling to Japan (departing tonight) as part of the disaster assistance team. The breakdown of sanitation there is probably inevitable, so it is important for Kirk (as well as the other travelers) to protect themselves just in case. Kirk has asked if you could confirm if he has already had the

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vaccinations recommended for situations such as these. Could you please check his records and communicate the answer directly to him? If not, please let him know what vaccinations he is recommended to have.

In addition, could please send me a list of recommended vaccinations for all travelers to the disaster-impacted areas? Thank you in advance!

Best regards,
Elizabeth

Elizabeth Smioldo
International Relations Officer
Office of International Programs
US Nuclear Regulatory Commission
Washington, DC 20555
301-415-3821

From: Foggie, Kirk
Sent: Monday, March 14, 2011 1:34 PM
To: Smioldo, Elizabeth
Subject: RE: Japan Profile.docx

I agree. I think 2 of the travelers are starting from RII, so they will have to to something down there. J. Monninger is in hq. I would suggest it to him.

Can you or someone in admin. ask the health unit if I need to stop by. They have all my records, so they would know if I need any new vaccinations.

Thanks.

Kirk

From: Smioldo, Elizabeth
Sent: Monday, March 14, 2011 1:28 PM
To: Foggie, Kirk
Subject: FW: Japan Profile.docx

Hi, Kirk,

Do you think the travelers to Japan will have time to visit the health center before traveling to be immunized? I suspect there won't be any time, but if the option is available maybe they should. The breakdown of sanitation throughout the impacted areas is probably inevitable.

--E.

From: LIA02 Hoc
Sent: Monday, March 14, 2011 1:23 PM
To: Smioldo, Elizabeth
Subject: RE: Japan Profile.docx

Good idea tell folks to see health cntr. May be too late. Ask Kirk/Margie

From: Smioldo, Elizabeth
Sent: Monday, March 14, 2011 1:22 PM
To: LIA02 Hoc
Subject: RE: Japan Profile.docx

Charlotte,

Do you think these people will have time to be immunized for things like hepatitis or cholera prior to departure just in case? If I were headed into a disaster and could slip into the health center for 15 min, I would at least want to know if the option were available. Just a thought!

--E.

From: LIA02 Hoc
Sent: Monday, March 14, 2011 1:18 PM
To: Smirolodo, Elizabeth
Subject: RE: Japan Profile.docx

We also need to confirm that Chuck Casto from RII is going. You will need to have the files e-mailed to him if he is going.

From: Smirolodo, Elizabeth
Sent: Monday, March 14, 2011 1:05 PM
To: LIA02 Hoc
Subject: RE: Japan Profile.docx

That should not be a problem.

From: LIA02 Hoc
Sent: Monday, March 14, 2011 12:56 PM
To: Smirolodo, Elizabeth
Subject: RE: Japan Profile.docx

See if we can get it within the next several hours. We are going to try to get folks out on a flight that leaves around 6 today.

From: Smirolodo, Elizabeth
Sent: Monday, March 14, 2011 12:50 PM
To: LIA02 Hoc
Cc: Emche, Danielle; Afshar-Tous, Mugeh
Subject: RE: Japan Profile.docx

OK! I am pulling the items together...by when does it need to be ready?

From: LIA02 Hoc
Sent: Monday, March 14, 2011 12:49 PM
To: Smirolodo, Elizabeth
Cc: Emche, Danielle
Subject: FW: Japan Profile.docx

Margie is sending tons of stuff to include in briefing materials. You will need to get Emily and Daphene to help prepare books for everyone going (6 books) plus e-mail book material to Atlanta office for Chuck Casto (assuming that Chuck is really going).

I will send you addl e-mails from Margie.

From: Doane, Margaret
Sent: Monday, March 14, 2011 11:50 AM
To: LIA02 Hoc
Subject: FW: Japan Profile.docx

From: Doane, Margaret
Sent: Monday, March 14, 2011 11:44 AM
To: Emche, Danielle
Cc: Abrams, Charlotte
Subject: Japan Profile.docx

Danielle,

I need you to make a book for the travelers to Japan. Here is one document to include there are others. Get the Admin staff to help.

Margie

OIP_ITServices Resource

From: Jones, Andrea
Sent: Tuesday, March 15, 2011 2:41 PM
To: Abrams, Charlotte; Afshar-Tous, Mugeh; Young, Francis; Emche, Danielle; English, Lance; Fehst, Geraldine; Smirollo, Elizabeth; Smith, Wilkins; Stahl, Eric; Fenstermacher, Amy
Cc: Schwartzman, Jennifer
Subject: Things to be Completed

Importance: High

All, I know everyone is busy, but Charlotte asked me to remind the staff to please continue to complete your meeting notes from last week's RIC.

Also, please keep in mind, that the Conference on Nuclear Safety (CNS) starts April 4th. I think everyone knows which one of their countries will be participating. Please prepare your CNS packages in the same format of the RIC packages and submit them to Charlotte no later than March 23rd.

Andrea R. Jones
International Relations Officer
Office of International Programs
U.S. Nuclear Regulatory Commission
301-415-2309

From: [Cherry, Ronald C](#)
To: [aleshia.duncan@nuclear.energy.gov](#); [Ulses, Anthony](#); [Trapp, James](#); [doedartliaison1@ofda.gov](#)
Subject: Fw: FW: Radiation data by MEXT
Date: Tuesday, March 15, 2011 1:46:49 AM
Attachments: [201103151400pm.pdf](#)
[201103151300pm.pdf](#)

This has been sent from my Blackberry

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

From: n3kimura@mext.go.jp <n3kimura@mext.go.jp>

To: Cherry, Ronald C

Sent: Tue Mar 15 01:40:44 2011

Subject: Re: FW: Radiation data by MEXT

Ron,

Hope this document works.

Naohito

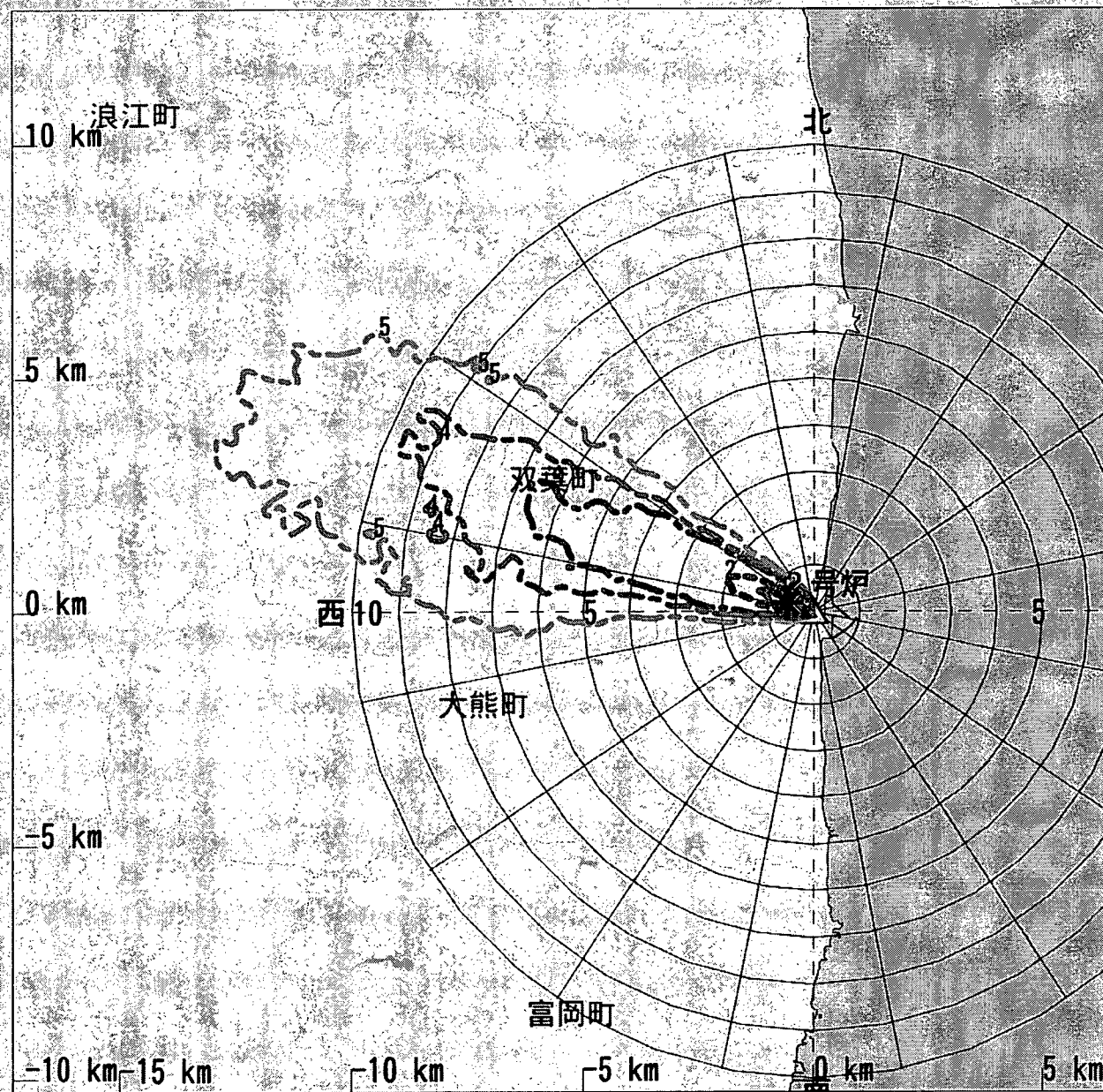
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大気中濃度 (ヨウ素) (地上高)

日時 = 2011/03/15 14:00 - 2011/03/15 15:00

気象データ = GPV + 観測値 (2011/03/15 13:00) まで

福島第1 2号炉 狭域図



放出地点 : 141°02'08" - 37°25'18"

領域 : 23km × 23km

表示高度 = 1.00 m

【凡例】

大気中濃度等値線 (Bq/m³)

1 = 1.0×10^{-9} —————

2 = 5.0×10^{-10} - - - - -

3 = 1.0×10^{-10} - - - - -

4 = 5.0×10^{-11} - - - - -

5 = 1.0×10^{-11} - - - - -

最大濃度 = 1.7×10^{-9} Bq/m³

放出地点の西北西 0.6 km 地点 (*印)

計算モデル名 = PRWDA21

使用モデル名 = 通常モデル

【計算条件】

計算メッシュ幅 水平方向 = 0.25 km

放出高 = 120.0m

燃焼度 = 20000 MWD/MTU

原子炉停止時刻 = 2011/03/11 16:00

放出開始時刻 = 2011/03/15 13:00

放出モード = 単位量放出

放出核種・放出率 (積算) : Bq/h (Bq)

ヨウ素 : 1.0×10^0 (1.0×10^0)

13時定期福島1-2号炉

空気吸収線量率

日時= 2011/03/15 13:00 - 2011/03/15 14:00

気象データ = G P V + 観測値 (2011/03/15 13:00) まで

福島第1 2号炉 狭域図

核種名 = 希ガス

放出地点 : 141°02'08" - 37°25'18"

領域 : 23km × 23km

【凡例】

空気吸収線量率等値線 ($\mu\text{Gy/h}$)

1 = 1.0×10^{-14} —————

2 = 5.0×10^{-15} - - - - -

3 = 1.0×10^{-15} ————

4 = 5.0×10^{-16} - - - - -

5 = 1.0×10^{-16} ————

最大線量率 = $1.8 \times 10^{-14} \mu\text{Gy/h}$

放出地点の西南西 0.3 km 地点 (*印)

計算モデル名 = PRWDA21

使用モデル名 = 通常モデル

【計算条件】

計算メッシュ幅 水平方向 = 0.25 km

放出高 = 120.0m

燃焼度 = 20000 MWD/MTU

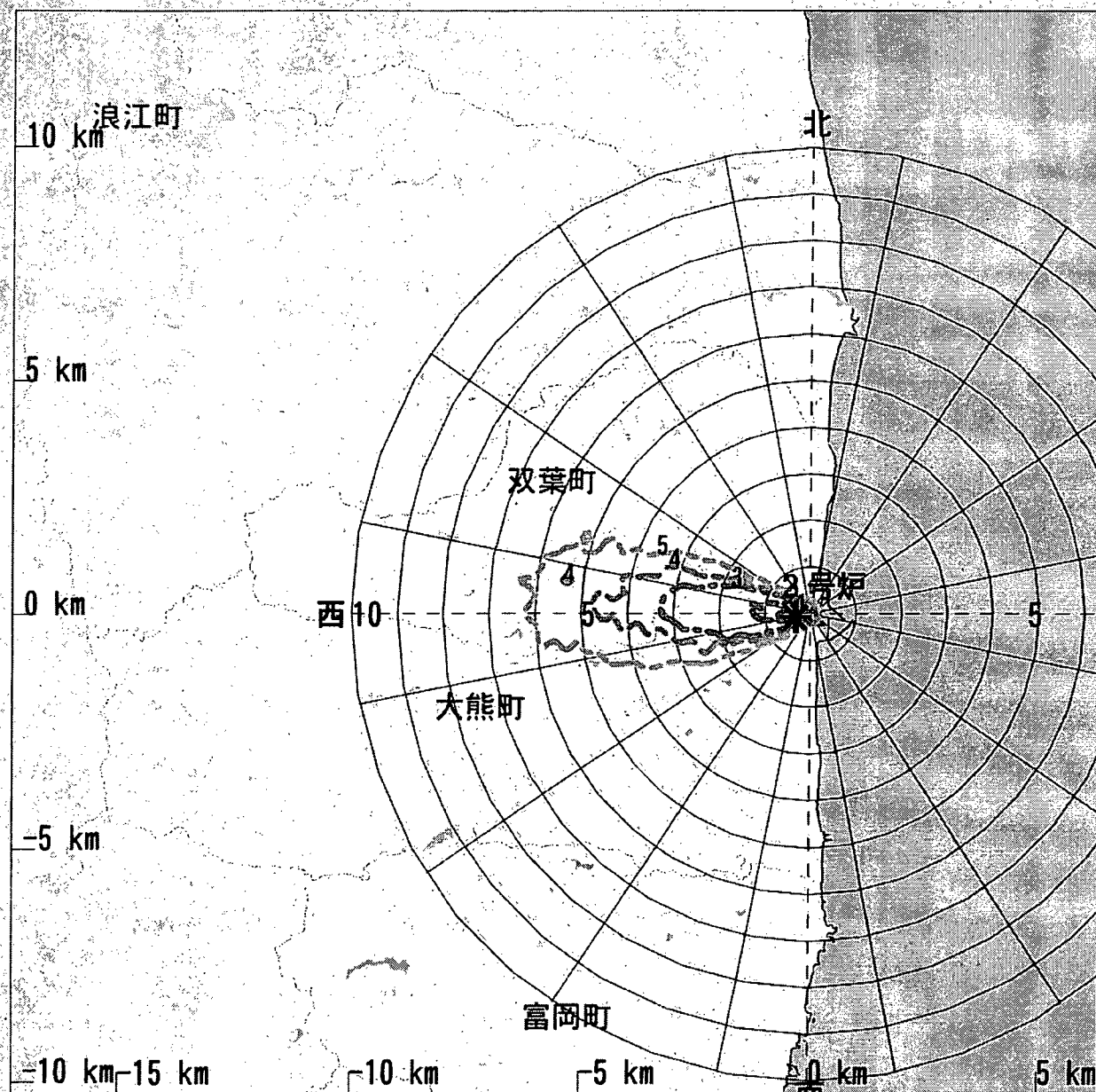
原子炉停止時刻 = 2011/03/11 16:00

放出開始時刻 = 2011/03/15 13:00

放出モード = 単位量放出

放出核種・放出率 (積算) : Bq/h (Bq)

希ガス : 1.0×10^0 (1.0×10^0)



13時定期福島1-2号炉

空気吸収線量率

日時= 2011/03/15 13:00 - 2011/03/15 14:00

気象データ = G P V + 観測値 (2011/03/15 13:00) まで

福島第1 2号炉 狭域図

核種名 = 希ガス

放出地点 : 141° 02' 08" - 37° 25' 18"

領域 : 23km × 23km

【凡例】

空気吸収線量率等値線 ($\mu\text{Gy/h}$)

1 = 1.0×10^{-14}

2 = 5.0×10^{-15}

3 = 1.0×10^{-15}

4 = 5.0×10^{-16}

5 = 1.0×10^{-16}

最大線量率 = $1.8 \times 10^{-14} \mu\text{Gy/h}$

放出地点の西南西 0.3 km 地点 (*印)

計算モデル名 = PRWDA21

使用モデル名 = 通常モデル

【計算条件】

計算メッシュ幅 水平方向 = 0.25 km

放出高 = 120.0m

燃焼度 = 20000 MWD/MTU

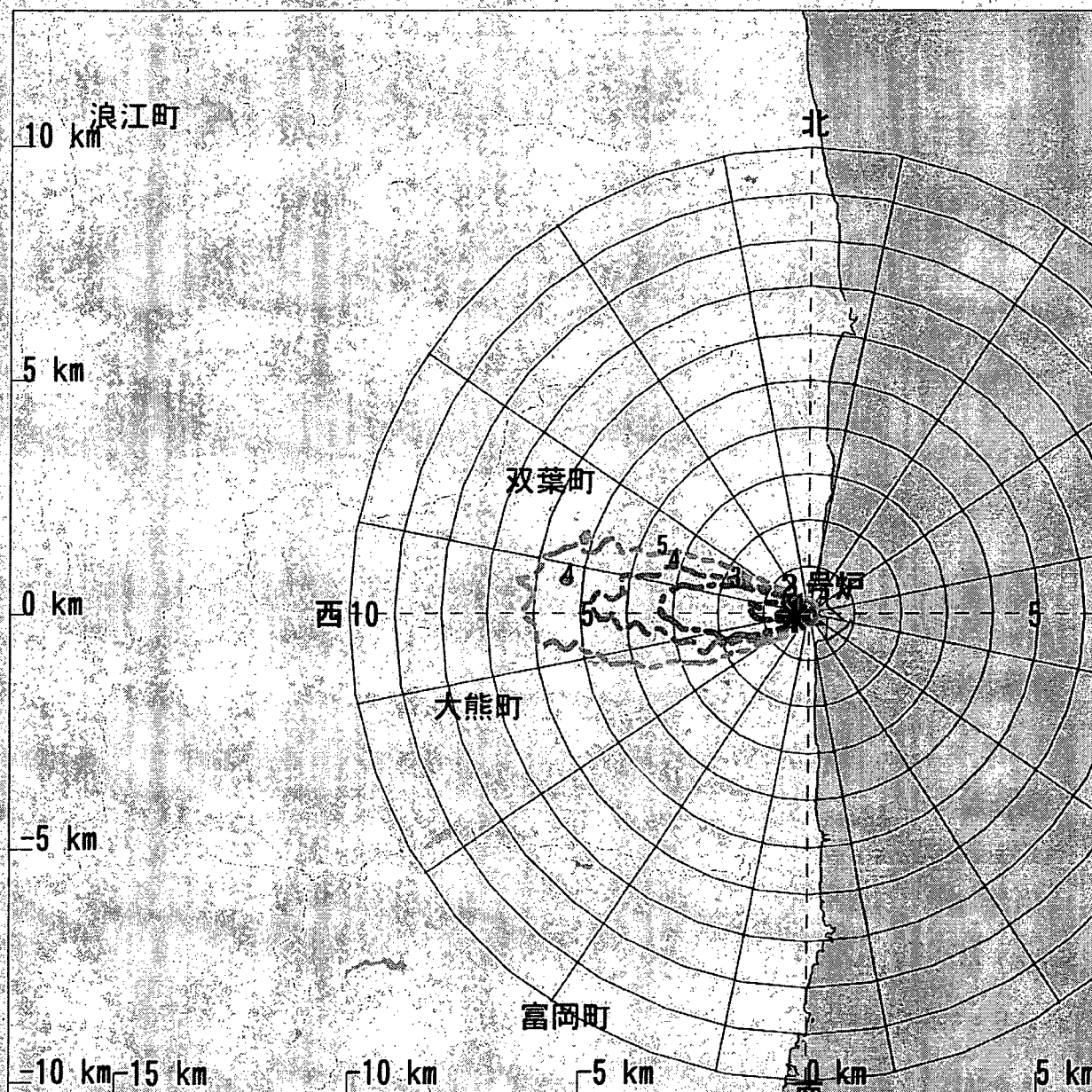
原子炉停止時刻 = 2011/03/11 16:00

放出開始時刻 = 2011/03/15 13:00

放出モード = 単位量放出

放出核種・放出率(積算) : Bq/h (Bq)

希ガス : 1.0×10^0 (1.0×10^0)



13時定期福島1-2号炉

大気中濃度 (ヨウ素) (地上高)

日時 = 2011/03/15 13:00 - 2011/03/15 14:00

気象データ = G P V + 観測値 (2011/03/15 13:00) まで

福島第1 2号炉 狭域図

放出地点 : 141°02'08" - 37°25'18"

領域 : 23km × 23km

表示高度 = 1.00 m

【凡例】

大気中濃度等値線 (Bq/m³)

1 = 1.0×10^{-9}

2 = 5.0×10^{-10}

3 = 1.0×10^{-10}

4 = 5.0×10^{-11}

5 = 1.0×10^{-11}

最大濃度 = 1.8×10^{-9} Bq/m³

放出地点の西南西 0.3 km地点 (*印)

計算モデル名 = PRWDA21

使用モデル名 = 通常モデル

【計算条件】

計算メッシュ幅 水平方向 = 0.25 km

放出高 = 120.0m

燃焼度 = 20000 MWD/MTU

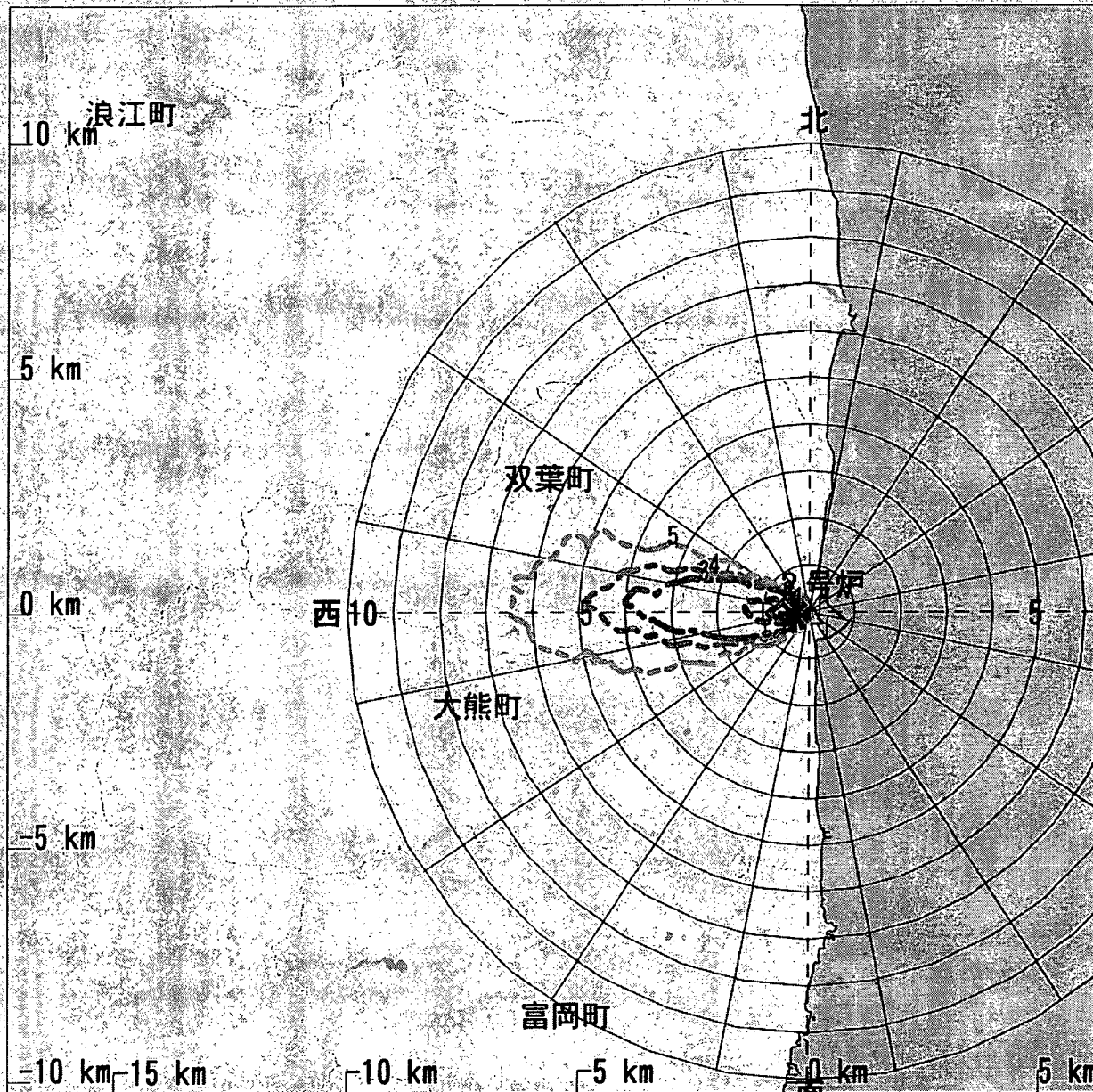
原子炉停止時刻 = 2011/03/11 16:00

放出開始時刻 = 2011/03/15 13:00

放出モード = 単位量放出

放出核種・放出率 (積算) : Bq/h (Bq)

ヨウ素 : 1.0×10^0 (1.0×10^0)



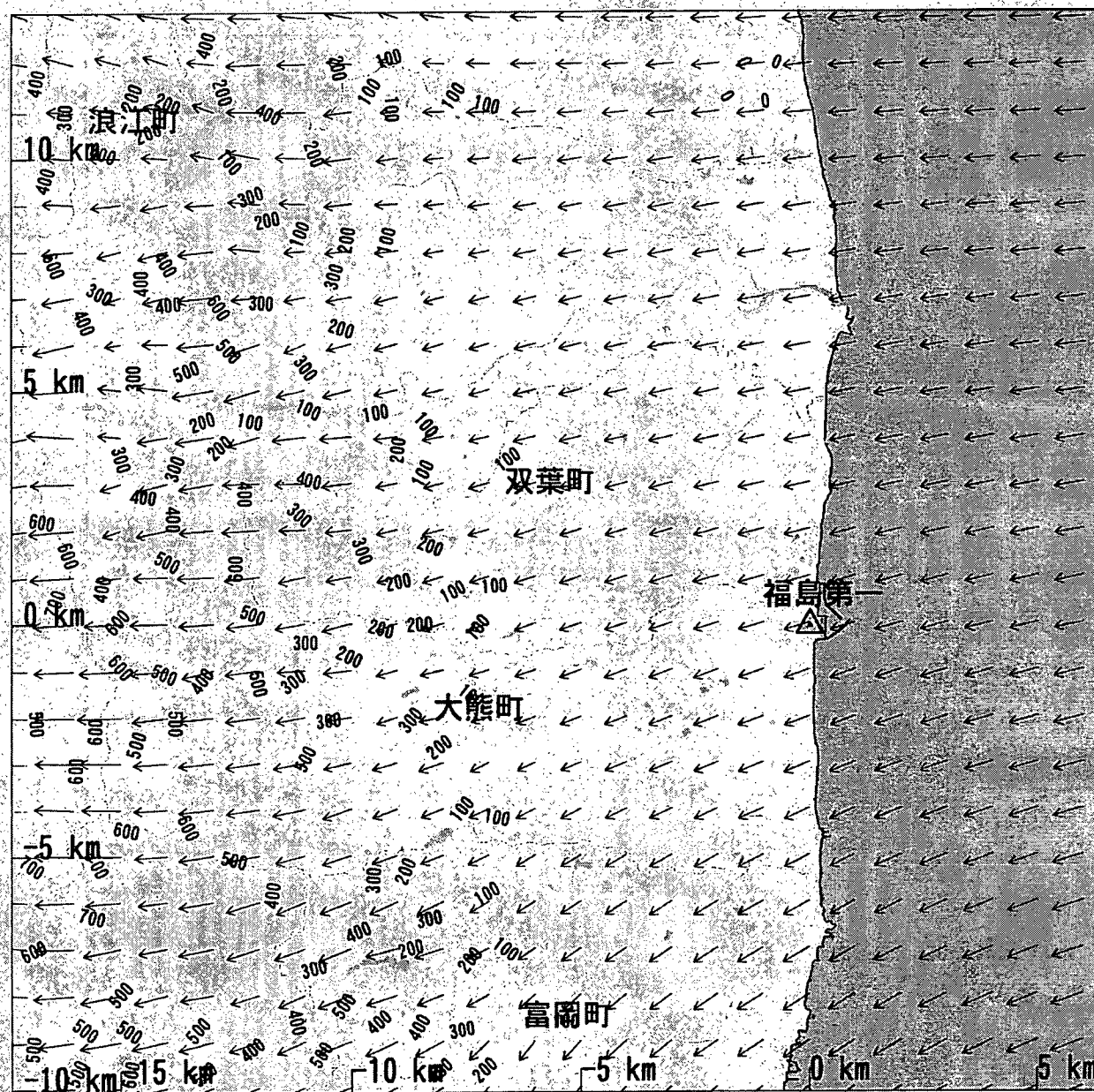
1.3 時定期福島1-2号炉

風速場 (地上高)

日時 = 2011/03/15 13:00

気象データ = G P V + 観測値 (2011/03/15 13:00) まで

福島第1 狭域図



サイト中心 : 141° 02' 10" - 37° 25' 12"

領域 : 23km × 23km

表示高度 = 120.00 m

サイト中心付近の風 : 東北東 2 m/s

大気安定度 : B型

計算モデル名 = WIND21

計算メッシュ幅 水平方向 = 0.50 km

【凡例】

標準風速

→ 2 m/s

13時定期福島1-2号炉

Hergenroder, Dan

From: Howell, Linda
Sent: Tuesday, March 15, 2011 2:00 PM
To: Collins, Elmo; Howell, Art; Kennedy, Kriss; Pruett, Troy; Vogel, Anton; Caniano, Roy; Uselding, Lara; Maier, Bill
Subject: FW: 1330 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031511.1330EDT.docx

From: LIA07 Hoc
Sent: Tuesday, March 15, 2011 12:55 PM
To: LIA07 Hoc
Cc: LIA09 Hoc; LIA11 Hoc; LIA01 Hoc; HOO Hoc
Subject: 1330 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 1330 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 15, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses.

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

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

-Jim

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

LII/39

Hergenroder, Dan

From: LIA07 Hoc
Sent: Tuesday, March 15, 2011 6:49 PM
To: HOO Hoc
Subject: 1930 EDT (March 15, 2011) USNRC Earthquake/Tsunami Status Update
Attachments: USNRC Earthquake-Tsunami Update.031511.1930EDT.pdf

Attached, please find a 1930 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 15, 2011.

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

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

-Sara

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

XII/40

Dunham, Katrina

From: Brown, Michael
Sent: Tuesday, March 15, 2011 9:22 AM
To: Bower, Fred; Ziedonis, Adam
Subject: FW: 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep - OOU
Attachments: USNRC Earthquake-Tsunami Update.031511.0730EDT.docx

FYI

From: Johnson, Andrea
Sent: Tuesday, March 15, 2011 8:55 AM
To: Weber, Carl; Brown, Michael; Cerne, Tony; Craffey, Ryan; Fredette, Thomas; Murray, Demetrius; Spivack, Ian; Webb, Michael; Beardsley, James; Lukes, Robert
Subject: FW: 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep - OOU

FYI

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

From: LIA07 Hoc
Sent: Tuesday, March 15, 2011 7:48 AM
To: Al Coons; Appleman Binkert; Bill King; Bill King 2; Charles Burrows; Charles Donnell; Conrad Burnside; Dan Feighert; Darrell Hammons; DOE NIT; DOT; DTRA; dudek; Elmer Naples; **EOP**; EPA; EPA2; Eric Sinibaldi; Gregory Simonson; Harry Sherwood; HHS; J Szymanski; Jim Kish; Johanna Berkey; John Holdren; K Donald; Karyn Keller; Lisa Hammond; Lukas McMichael; Maceck; Michelle Ralston; Nan Calhoun; **Navy**; NOC; NOC Duty Director; Nuclear SSA; Peter Lyons; Rebecca Thomson; RMT; Ron McCabe; Seamus O'Boyle; State; Stephen Trautman; Steve Colman; Steve Horwitz; Thomas Conran; Thomas Zerr; Tim Greten; Vanessa Quinn; William Webb; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bradford, Anna; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Elmo; Dean, Bill; Decker, David; Dorman, Dan; Droggitis, Spiros; Franovich, Mike; Gibbs, Catina; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; HOO Hoc; Howell, Art; Howell, Linda; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Tifft, Doug; Trapp, James; Trojanowski, Robert; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Cc: LIA07 Hoc; LIA09 Hoc; LIA11 Hoc
Subject: 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep

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

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

-Jim

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

Lee, Richard

From: Gibson, Kathy
Sent: Tuesday, March 15, 2011 8:25 AM
To: RES_DSA
Subject: Fw: 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031511.0730EDT.docx

FYI

From: Sheron, Brian
To: Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea
Sent: Tue Mar 15 07:59:04 2011
Subject: FW: 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep

From: LIA07 Hoc
Sent: Tuesday, March 15, 2011 7:48 AM
To: Al Coons; Appleman Binkert; Bill King; Bill King 2; Charles Burrows; Charles Donnell; Conrad Burnside; Dan Feighert; Darrell Hammons; DOE NIT; DOT; DTRA; dudek; Elmer Naples; EOP; EPA; EPA2; Eric Sinibaldi; Gregory Simonson; Harry Sherwood; HHS; J Szymanski; Jim Kish; Johanna Berkey; John Holdren; K Donald; Karyn Keller; Lisa Hammond; Lukas McMichael; Maceck; Michelle Ralston; Nan Calhoun; Navy; NOC; NOC Duty Director; Nuclear SSA; Peter Lyons; Rebecca Thomson; RMT; Ron McCabe; Seamus O'Boyle; State; Stephen Trautman; Steve Colman; Steve Horwitz; Thomas Conran; Thomas Zerr; Tim Greten; Vanessa Quinn; William Webb; Andersen, James; Anderson, Joseph; Barker, Allan; Batkin, Joshua; Bradford, Anna; Brenner, Eliot; Bubar, Patrice; Castleman, Patrick; Coggins, Angela; Collins, Elmo; Dean, Bill; Decker, David; Dorman, Dan; Droggitis, Spiros; Franovich, Mike; Gibbs, Catina; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; HOO Hoc; Howell, Art; Howell, Linda; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Leeds, Eric; Logaras, Harral; Loyd, Susan; Maier, Bill; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Tifft, Doug; Trapp, James; Trojanowski, Robert; Warren, Roberta; Wiggins, Jim; Williams, Kevin; Wittick, Brian; Woodruff, Gena
Cc: LIA07 Hoc; LIA09 Hoc; LIA11 Hoc
Subject: 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep

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

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

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

-Jim

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

Clayton, Kathleen

From: LIA07 Hoc
Sent: Tuesday, March 15, 2011 8:09 AM
To: Borchardt, Bill
Cc: HOO Hoc
Subject: FW: 0730 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031511.0730EDT.docx

Sir,

I apologize that you were not on this distribution. Please find attached the latest status update. Please let me know if you have any questions or concerns.

Thank you,

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

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

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-Jim

Jim Anderson
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US Nuclear Regulatory Commission
james.anderson@nrc.gov
LIA07.HOC@nrc.gov (Operations Center)

III/43

Attachment USNRC Earthquake-Tsunami Update.031511.0730ED.docx (28835 Bytes) cannot be converted to PDF format.

McKelvey, Harold

From: Howell, Linda
Sent: Wednesday, March 16, 2011 7:23 AM
To: Collins, Elmo; Howell, Art; Kennedy, Kriss; Pruett, Troy; Vogel, Anton; Caniano, Roy; Uselding, Lara; Maier, Bill
Subject: FW: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-16.11--0630am.pdf
Importance: High

Items to note: The U2 containment may be in better shape than previously expected (despite press reporting). U4 situation is deteriorating, SFP water inventory is lost. Japanese military had planned to drop sea water over U3 and probably U4 yesterday but this plan was abandoned due to high dose rates. The dose rates around U4 make entry impossible at this time. The skeleton crew of 50 that had been held on site (~750 workers were evacuated) was moved offsite approximately 0.5 miles away due to dose concerns. As of 0600 CT this morning, Japanese media reporting (from NPR) indicated that the crew might not yet be back on site.

The evacuation area around the Fukushima Daiichi plant has been expanded to 20 Km.

THIS INFORMATION COULD CHANGE RAPIDLY AS THE DAY PROGRESSES.

From: LIA07 Hoc
Sent: Wednesday, March 16, 2011 5:46 AM
To: Andersen, James; Anderson, Joseph; Ash, Darren; Baggett, Steven; Barker, Allan; Batkin, Joshua; Boger, Bruce; Borchardt, Bill; Bradford, Anna; Brenner, Eliot; Smith, Brooke; Brown, Milton; Bubar, Patrice; Camper, Larry; Carpenter, Cynthia; Castleman, Patrick; Ader, Charles; Casto, Chuck; Coggins, Angela; Collins, Elmo; Correia, Richard; Dapas, Marc; Dean, Bill; Decker, David; Dickman-Disabled-11/14/2010, Paul; Dorman, Dan; Droggitis, Spiros; Dyer, Jim; ET02 Hoc; Evans, Michele; Franovich, Mike; Apostolakis, George; Gibbs, Catina; Giitter, Joseph; Gott, William; Grobe, Jack; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; Holahan, Gary; Holahan, Patricia; HOO Hoc; Howell, Art; Howell, Linda; Foster, Jack; Jackson, Donald; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Foggie, Kirk; Kock, Andrea; Kozal, Jason; Leeds, Eric; LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Logaras, Haral; Loyd, Susan; Magwood, William; Maier, Bill; Marshall, Jane; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Morris, Scott; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Ordaz, Vonna; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Pederson, Cynthia; Plisco, Loren; Powell, Amy; R1 IRC; R2 IRC; R3 IRC; R4 IRC; Reddick, Darani; Reyes, Luis; Devercelly, Richard; ROO hoc; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Thoma, John; Tift, Doug; Kolb, Timothy; Ulses, Anthony; Nakanishi, Tony; Tracy, Glenn; Trapp, James; Trojanowski, Robert; Uhle, Jennifer; Virgilio, Martin; Warnick, Greg; Warren, Roberta; Weber, Michael; Westreich, Barry; Wiggins, Jim; Cook, William; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Zorn, Jason
Subject: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0630 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses.

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

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

9
Turilin, Andrey

2

From: Burritt, Arthur
Sent: Wednesday, March 16, 2011 7:55 AM
To: Cline, Leonard; DeBoer, Joseph; Douglas, Christopher; Johnson, Jonathan; Kern, Ludwig; McKenna, Philip; Patel, Amar; Raymond, William; Schroeder, Daniel; Turilin, Andrey; Welling, Blake
Subject: FW: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-16.11--0630am.pdf

FYI

From: Jackson, Donald
Sent: Wednesday, March 16, 2011 6:52 AM
To: Dentel, Glenn; Gray, Mel; Burritt, Arthur; Krohn, Paul; Bellamy, Ronald; Powell, Raymond; Henderson, Pamela; Conte, Richard; Doerflein, Lawrence; Rogge, John; Hansell, Samuel; Kennedy, Silas
Subject: FW: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep

I will forward these to you as I get them this week as RDO....please read and delete and do not forward.

VR
DON J

From: LIA07 Hoc
Sent: Wednesday, March 16, 2011 6:46 AM
To: Andersen, James; Anderson, Joseph; Ash, Darren; Baggett, Steven; Barker, Allan; Batkin, Joshua; Boger, Bruce; Borchardt, Bill; Bradford, Anna; Brenner, Eliot; Smith, Brooke; Brown, Milton; Bubar, Patrice; Camper, Larry; Carpenter, Cynthia; Castleman, Patrick; Ader, Charles; Casto, Chuck; Coggins, Angela; Collins, Elmo; Correia, Richard; Dapas, Marc; Dean, Bill; Decker, David; Dickman-Disabled-11/14/2010, Paul; Dorman, Dan; Droggitis, Spiros; Dyer, Jim; ET02 Hoc; Evans, Michele; Franovich, Mike; Apostolakis, George; Gibbs, Catina; Giitter, Joseph; Gott, William; Grobe, Jack; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; Holahan, Gary; Holahan, Patricia; HOO Hoc; Howell, Art; Howell, Linda; Foster, Jack; Jackson, Donald; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Foggie, Kirk; Kock, Andrea; Kozal, Jason; Leeds, Eric; LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Logaras, Haral; Loyd, Susan; Magwood, William; Maier, Bill; Marshall, Jane; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Morris, Scott; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Ordaz, Vonna; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Pederson, Cynthia; Plisco, Loren; Powell, Amy; R1 IRC; R2 IRC; R3 IRC; R4 IRC; Reddick, Darani; Reyes, Luis; Devercelly, Richard; ROO hoc; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Thoma, John; Tifft, Doug; Kolb, Timothy; Ulses, Anthony; Nakanishi, Tony; Tracy, Glenn; Trapp; Trapp, James; Trojanowski, Robert; Uhle, Jennifer; Virgilio, Martin; Warnick, Greg; Warren, Roberta; Weber, Michael; Westreich, Barry; Wiggins, Jim; Cook, William; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Zorn, Jason
Subject: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0630 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses. Please note that this information is "Official Use Only" and is only being shared within the federal family.
Please call the Headquarters Operations Officer at 301-816-5100 with questions.

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

III/45

From: Regan, Christopher
Sent: Wednesday, March 16, 2011 11:06 AM
To: Astwood, Heather; Craig, Jocelyn; Cullingford, Michael; Dinitz, Ira; Dusaniwskyj, Michael; Harwell, Shawn; Hopkins, Jon; Lois, Kosmas; Pittiglio, Clayton; Purdie, Michael; Quinones, Lauren; Regan, Christopher; Richter, Brian; Rodriguez, Veronica; Simmons, Anneliese; Simpson, JoAnn; Szabo, Aaron
Subject: FYI: "Official Use Only" : 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-16.11--0630am.pdf
Importance: High

This information is "Official Use Only" and is only being shared within the federal family.

Attached, please find a 0630 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses. Note that they had another earthquake (6.1 on the Richter scale) yesterday!

In the event that a member of the staff receives a call from a member of the public concerning the event please refer them to the Office of Public Affairs. I can't stress this enough...refer any call to OIP and do not discuss with outside stakeholders.

If you have any questions and would like to discuss come see me.
Chris

III/46

From: Haney, Catherine
To: Tschiltz, Michael; Kokajko, Lawrence; Kinneman, John; Bailey, Marissa; Weaver, Doug; Ordaz, Vonna; Davis, Jack; Pulliam, Timothy
Subject: FW: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Date: Wednesday, March 16, 2011 8:56:00 AM
Attachments: NRC Status Update 3-16.11--0630am.pdf

FYI – I will start routinely sending the status updates to you. Just note OUO markings to anyone you share information with.

From: LIA07 Hoc

Sent: Wednesday, March 16, 2011 6:46 AM

To: Andersen, James; Anderson, Joseph; Ash, Darren; Baggett, Steven; Barker, Allan; Batkin, Joshua; Boger, Bruce; Borchardt, Bill; Bradford, Anna; Brenner, Eliot; Smith, Brooke; Brown, Milton; Bubar, Patrice; Camper, Larry; Carpenter, Cynthia; Castleman, Patrick; Ader, Charles; Casto, Chuck; Coggins, Angela; Collins, Elmo; Correia, Richard; Dapas, Marc; Dean, Bill; Decker, David; Dickman-Disabled-11/14/2010, Paul; Dorman, Dan; Droggitis, Spiros; Dyer, Jim; ET02 Hoc; Evans, Michele; Franovich, Mike; Apostolakis, George; Gibbs, Catina; Gitter, Joseph; Gott, William; Grobe, Jack; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; Holahan, Gary; Holahan, Patricia; HOO Hoc; Howell, Art; Howell, Linda; Foster, Jack; Jackson, Donald; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Foggie, Kirk; Kock, Andrea; Kozal, Jason; Leeds, Eric; LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Logaras, Harral; Loyd, Susan; Magwood, William; Maier, Bill; Marshall, Jane; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Morris, Scott; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Ordaz, Vonna; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Pederson, Cynthia; Plisco, Loren; Powell, Amy; R1 IRC; R2 IRC; R3 IRC; R4 IRC; Reddick, Darani; Reyes, Luis; Devercelly, Richard; ROO hoc; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Thoma, John; Tifft, Doug; Kolb, Timothy; Ulses, Anthony; Nakanishi, Tony; Tracy, Glenn; Trapp, James; Trojanowski, Robert; Uhle, Jennifer; Virgilio, Martin; Warnick, Greg; Warren, Roberta; Weber, Michael; Westreich, Barry; Wiggins, Jim; Cook, William; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Zorn, Jason

Subject: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0630 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses.

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

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

11/14/11

Satorius, Mark

From: Pederson, Cynthia
Sent: Wednesday, March 16, 2011 7:07 AM
To: All R3 Users
Subject: FW: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-16-11-0630am.pdf

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

From: LIA07 Hoc

Sent: Wednesday, March 16, 2011 5:46 AM

To: Andersen, James; Anderson, Joseph; Ash, Darren; Baggett, Steven; Barker, Allan; Batkin, Joshua; Boger, Bruce; Borchardt, Bill; Bradford, Anna; Brenner, Eliot; Smith, Brooke; Brown, Milton; Bubar, Patrice; Camper, Larry; Carpenter, Cynthia; Castleman, Patrick; Ader, Charles; Casto, Chuck; Coggins, Angela; Collins, Elmo; Correia, Richard; Dapas, Marc; Dean, Bill; Decker, David; Dickman-Disabled-11/14/2010, Paul; Dorman, Dan; Droggitis, Spiros; Dyer, Jim; ET02 Hoc; Evans, Michele; Franovich, Mike; Apostolakis, George; Gibbs, Catina; Glitter, Joseph; Gott, William; Grobe, Jack; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; Holahan, Gary; Holahan, Patricia; HOO Hoc; Howell, Art; Howell, Linda; Foster, Jack; Jackson, Donald; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Foggie, Kirk; Kock, Andrea; Kozal, Jason; Leeds, Eric; LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Logaras, Harrah; Loyd, Susan; Magwood, William; Maier, Bill; Marshall, Jane; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Morris, Scott; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Ordaz, Vonna; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Pederson, Cynthia; Plisco, Loren; Powell, Amy; R1 IRC; R2 IRC; R3 IRC; R4 IRC; Reddick, Darani; Reyes, Luis; Devercelly, Richard; ROO hoc; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Thoma, John; Tift, Doug; Kolb, Timothy; Ulises, Anthony; Nakanishi, Tony; Tracy, Glenn; Trapp, James; Trojanowski, Robert; Uhle, Jennifer; Virgilio, Martin; Warnick, Greg; Warren, Roberta; Weber, Michael; Westreich, Barry; Wiggins, Jim; Cook, William; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Zorn, Jason

Subject: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep

Attached, please find a 0630 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses. Please note that this information is "Official Use Only" and is only being shared within the federal family.

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

Yen Chen

US Nuclear Regulatory Commission

LIA07.HOC@nrc.gov (Operations Center)

III/48

From: [Keegan, Elaine](#)
To: [Haney, Catherine](#)
Subject: fw: question
Date: Wednesday, March 16, 2011 10:22:24 AM
Attachments: [NRC Status Update 3-16.11--0630am.pdf](#)
Importance: High

How come we have to come by this information by "back channels?" Doesn't NRC staff, or at least the technical staff, deserve to know what's really going on? Why the censorship?

Subject: "Official Use Only" : 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Importance: High

Branch Chiefs, please share this with your staff with the appropriate caution that this information is "Official Use Only" and is only being shared within the federal family.

Attached, please find a 0630 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses.

In the event that a member of the staff receives a call from a member of the public concerning the event please refer them to the Office of Public Affairs. This actually happened yesterday with a call that Lorena received.

Thanks,
Mike

III/49

ini, Brett

From: Sheron, Brian
Sent: Wednesday, March 16, 2011 7:40 AM
To: Baratta, Anthony
Subject: FW: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-16.11--0630am.pdf

Attached is all the information I have.

From: LIA07 Hoc
Sent: Wednesday, March 16, 2011 6:46 AM
To: Andersen, James; Anderson, Joseph; Ash, Darren; Baggett, Steven; Barker, Allan; Batkin, Joshua; Boger, Bruce; Borchardt, Bill; Bradford, Anna; Brenner, Eliot; Smith, Brooke; Brown, Milton; Bubar, Patrice; Camper, Larry; Carpenter, Cynthia; Castleman, Patrick; Ader, Charles; Casto, Chuck; Coggins, Angela; Collins, Elmo; Correia, Richard; Dapas, Marc; Dean, Bill; Decker, David; Dickman-Disabled-11/14/2010, Paul; Dorman, Dan; Droggitis, Spiros; Dyer, Jim; ET02 Hoc; Evans, Michele; Franovich, Mike; Apostolakis, George; Gibbs, Catina; Giitter, Joseph; Gott, William; Grobe, Jack; Hahn, Matthew; Haney, Catherine; Harrington, Holly; Hipschman, Thomas; Holahan, Gary; Holahan, Patricia; HOO Hoc; Howell, Art; Howell, Linda; Foster, Jack; Jackson, Donald; Jaczko, Gregory; Johnson, Andrea; Johnson, Michael; Kahler, Robert; Foggie, Kirk; Kock, Andrea; Kozal, Jason; Leeds, Eric; LIA01 Hoc; LIA02 Hoc; LIA03 Hoc; LIA06 Hoc; LIA08 Hoc; LIA11 Hoc; Logaras, Harral; Loyd, Susan; Magwood, William; Maier, Bill; Marshall, Jane; Marshall, Michael; McCree, Victor; McDermott, Brian; McNamara, Nancy; Miller, Charles; Miller, Chris; Monninger, John; Morris, Scott; Nieh, Ho; NSIR_DDSP_ILTAB_Distribution; Ordaz, Vonna; Orders, William; Ostendorff, William; Pace, Patti; Pearson, Laura; Pederson, Cynthia; Plisco, Loren; Powell, Amy; R1 IRC; R2 IRC; R3 IRC; R4 IRC; Reddick, Darani; Reyes, Luis; Devercelly, Richard; ROO hoc; Satorius, Mark; Schmidt, Rebecca; Sharkey, Jeffry; Sheron, Brian; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Thoma, John; Tifft, Doug; Kolb, Timothy; Ulses, Anthony; Nakanishi, Tony; Tracy, Glenn; Trapp, James; Trojanowski, Robert; Uhle, Jennifer; Virgilio, Martin; Warnick, Greg; Warren, Roberta; Weber, Michael; Westreich, Barry; Wiggins, Jim; Cook, William; Williams, Kevin; Wittick, Brian; Woodruff, Gena; Zorn, Jason
Subject: 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep

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

III/50

Tang, David

From: Li, Zhian
Sent: Wednesday, March 16, 2011 9:53 AM
To: Tang, David
Subject: FW: "Official Use Only" : 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: NRC Status Update 3-16.11--0630am.pdf

Importance: High

From: Campbell, Larry
Sent: Wednesday, March 16, 2011 9:51 AM
To: Kotzalas, Margie
Subject: FW: "Official Use Only" : 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Importance: High

FYI – see attached

From: Tschiltz, Michael
Sent: Wednesday, March 16, 2011 9:39 AM
To: Smith, Brian; Habighorst, Peter; Hiltz, Thomas; Campbell, Larry; Silva, Patricia; Johnson, Robert
Cc: Kinneman, John; Bailey, Marissa
Subject: "Official Use Only" : 0630 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Importance: High

Branch Chiefs, please share this with your staff with the appropriate caution **that this information is "Official Use Only" and is only being shared within the federal family.**

Attached, please find a 0630 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on dose rates near Fukushima Daiichi, Fukushima Daiichi plant parameters, and NRC PMT hypothetical Worst Case Analyses.

In the event that a member of the staff receives a call from a member of the public concerning the event please refer them to the Office of Public Affairs. This actually happened yesterday with a call that Lorena received.

Thanks,
Mike

III/SI

OIP_ITServices Resource

From: Jones, Andrea
Sent: Wednesday, March 16, 2011 6:27 PM
To: LIA02 Hoc; English, Lance; Schwartzman, Jennifer; Stahl, Eric; Emche, Danielle; Wittick, Brian; Afshar-Tous, Mugeh; Bloom, Steven; Tobin, Jennifer; Mayros, Lauren; Henderson, Karen; Abrams, Charlotte; Fragoyannis, Nancy; Dembek, Stephen; Young, Francis; Smirolodo, Elizabeth; Baker, Stephen; Owens, Janice; Shepherd, Jill
Cc: Kreuter, Jane; Armstrong, Janine; LIA03 Hoc; LIA10 Hoc
Subject: RE: International Liaison Desk in Ops Center

Eric, you can put me down for 3-11p, Friday, Sat, and Sunday (if needed).

From: LIA02 Hoc
Sent: Wednesday, March 16, 2011 4:05 PM
To: English, Lance; Schwartzman, Jennifer; Stahl, Eric; Emche, Danielle; Wittick, Brian; Afshar-Tous, Mugeh; Bloom, Steven; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; Henderson, Karen; Abrams, Charlotte; Fragoyannis, Nancy; Dembek, Stephen; Young, Francis; Smirolodo, Elizabeth; Baker, Stephen; Owens, Janice; Shepherd, Jill
Cc: Kreuter, Jane; Armstrong, Janine; LIA03 Hoc; LIA10 Hoc
Subject: International Liaison Desk in Ops Center

Please find the most current International Liaison Desk in Ops Center coverage document attached. This coverage is through SUNDAY, March 20. There are a number of open shifts. If you are available, please respond with if you can cover any of these. If you see a time that you are currently scheduled for that you CANNOT work, please respond as well.

You will receive another email shortly concerning coverage beginning Monday, March 21, and lasting through April 15.

Thanks,
Eric

OIP ITS Services Resource

From: LIA02 Hoc
Sent: Wednesday, March 16, 2011 4:06 PM
To: English, Lance; Schwartzman, Jennifer; Stahl, Eric; Emche, Danielle; Wittick, Brian; Afshar-Tous, Mugeh; Bloom, Steven; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; Henderson, Karen; Abrams, Charlotte; Fragoyannis, Nancy; Dembek, Stephen; Young, Francis; Smirolodo, Elizabeth; Baker, Stephen; Owens, Janice; Shepherd, Jill
Cc: Kreuter, Jane; Armstrong, Janine; LIA03 Hoc; LIA10 Hoc
Subject: International Liaison Desk in Ops Center
Attachments: International Liaison Schedule 3-16 through 20, 2011.doc

Please find the most current International Liaison Desk in Ops Center coverage document attached. This coverage is through SUNDAY, March 20. There are a number of open shifts. If you are available, please respond with if you can cover any of these. If you see a time that you are currently scheduled for that you CANNOT work, please respond as well.

You will receive another email shortly concerning coverage beginning Monday, March 21, and lasting through April 15.

Thanks,
Eric

III/53

International Liaison Coverage
March 16-20, 2011

WEDNESDAY March 16, 2011

	Manager	Staff
7:00a-3:00p	Nader	Skip/Karen
3:00p-11:00p	Steve Dembek	Eric/Lauren
11:00p-7:00a		Brian/Elizabeth

THURSDAY March 17, 2011

	Manager/SL	Staff
7:00a-3:00p	Nader	Lance/Jen
3:00p-11:00p	Steve Dembek	Eric/Danielle
11:00p-7:00a		Brian/Mugeh

FRIDAY March 18, 2011

	Manager/SL	Staff
7:00a-3:00p	Nader	Jen/Steve Bloom
3:00p-11:00p	Steve Dembek	Jenny/Lauren
11:00p-7:00a		Elizabeth/Danielle

SATURDAY March 19, 2011

	Manager/SL	Staff
7:00a-3:00p		Lance/Steve Bloom
3:00p-11:00p	Nancy	Jenny T
11:00p-7:00a		Danielle/Jen

SUNDAY March 20, 2011

	Manager/SL	Staff
7:00a-3:00p	Nader	Karen
3:00p-11:00p	Steve Dembek	Eric
11:00p-7:00a	Charlotte	Elizabeth/Jenny

DPS

From: [LIA07 Hoc](#)
Subject: 1900 EDT (March 16, 2011) USNRC Earthquake/Tsunami SitRep
Date: Wednesday, March 16, 2011 7:12:59 PM
Attachments: [USNRC Earthquake-Tsunami Update.031611.1900EDT.pdf](#)

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

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

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

-Sara

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

III/54

Satorius, Mark

From: OST05 Hoc
Sent: Wednesday, March 16, 2011 3:56 PM
To: Barker, Allan; Browder, Rachel; Erickson, Randy; Logaras, Harral; Maier, Bill; McNamara, Nancy; Tifft, Doug; Trojanowski, Robert; Woodruff, Gena; Flannery, Cindy; Lukes, Kim; Noonan, Amanda; Rautzen, William; Rivera, Alison; Ryan, Michael; Turtill, Richard; Virgilio, Rosetta; Collins, Elmo; Dean, Bill; McCree, Victor; Satorius, Mark
Cc: LIA04 Hoc
Subject: 1400 EDT (March 15, 2011) USNRC Earthquake/Tsunami SitRep
Attachments: USNRC Earthquake-Tsunami Update.031611.1400EDT.docx

Attached, please find a 1400 EDT situation report from the US Nuclear Regulatory Commission's Emergency Operations Center regarding the impacts of the earthquake/tsunami on March 16, 2011. This Update includes information on the status of the units at Fukushima Daiichi, NRC recommendations to Americans in Japan, and NRC PMT hypothetical Worst Case Analyses.

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

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

-Jim

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

From: PMT01 Hoc
Sent: Wednesday, March 16, 2011 3:18 PM
To: GIS Hoc
Subject: FW: Update of forecast wind conditions for Fukushima Daiichi 1
Attachments: Updated_Forecast_16March16Z.xlsx; image001.jpg

As requested.

From: HOO Hoc
Sent: Wednesday, March 16, 2011 11:34 AM
To: PMT01 Hoc; RST01 Hoc; LIA01 Hoc; LIA02 Hoc; LIA04 Hoc; LIA07 Hoc; LIA11 Hoc; LIA12 Hoc; Gott, William; Marshall, Jane; McDermott, Brian; Morris, Scott; Thorp, John
Subject: FW: Update of forecast wind conditions for Fukushima Daiichi 1

Headquarters Operations Officer
U.S. Nuclear Regulatory Commission
Phone: 301-816-5100
Fax: 301-816-5151
email: hoo.hoc@nrc.gov
secure e-mail: hoo1@nrc.sgov.gov



From: Vogt, Phil [<mailto:vogt4@llnl.gov>]
Sent: Wednesday, March 16, 2011 11:32 AM
To: HOO Hoc; PMT02 Hoc; PMT01 Hoc; CMHT@nnsa.doe.gov; nitops@nnsa.doe.gov; alan.remick@nnsa.doe.gov; 'McMichael, Lukas C CIV SEA 08 NR'
Cc: narac@llnl.gov
Subject: Update of forecast wind conditions for Fukushima Daiichi 1

See attached spreadsheet for the forecast (table also included below)

Date	Hour (UTC)	Speed (m/s)	Dir	CLASS	RAIN
16-Mar	16	3.7	281	D	0
	16	17	6.7	D	0
	16	18	6.2	D	0
	16	19	5	D	0
	16	20	4.1	D	0
	16	21	4.6	D	0
	16	22	5.1	C	0
	16	23	5.3	C	0
17-Mar	0	6.4	338	C	0
	17	1	8.2	C	0

III/5b

17	2	7.8	346	C	0
17	3	8.8	309	C	0
17	4	9.9	292	C	0
17	5	11.9	283	C	0
17	6	10.6	289	C	0
17	7	12.3	287	D	0
17	8	12.8	285	D	0
17	9	11.3	302	D	0
17	10	13	302	D	0
17	11	10.4	302	D	0
17	12	9.7	306	D	0
17	13	5.9	321	D	0
17	14	4.7	315	D	0
17	15	2.9	294	E	0
17	16	5.5	313	D	0

NARAC Operations
 925-0422-7627
narac@llnl.gov

Date	Hour (UTC)	Speed (m/s)	Dir	CLASS	RAIN
16-Mar	16	3.7	281	D	0
16	17	6.7	271	D	0
16	18	6.2	302	D	0
16	19	5	315	D	0
16	20	4.1	320	D	0
16	21	4.6	324	D	0
16	22	5.1	295	C	0
16	23	5.3	344	C	0
17-Mar	0	6.4	338	C	0
17	1	8.2	352	C	0
17	2	7.8	346	C	0
17	3	8.8	309	C	0
17	4	9.9	292	C	0
17	5	11.9	283	C	0
17	6	10.6	289	C	0
17	7	12.3	287	D	0
17	8	12.8	285	D	0
17	9	11.3	302	D	0
17	10	13	302	D	0
17	11	10.4	302	D	0
17	12	9.7	306	D	0
17	13	5.9	321	D	0
17	14	4.7	315	D	0
17	15	2.9	294	E	0
17	16	5.5	313	D	0

From: [Bulletin News](#)
To: NRC-editors@bulletinnews.com
Subject: NRC News Summary for Wednesday, March 16, 2011
Date: Wednesday, March 16, 2011 7:08:09 AM
Attachments: [NRCSummary110316.doc](#)
[NRCSummary110316.pdf](#)
[NRCclips110316.doc](#)
[NRCclips110316.pdf](#)

This morning's Nuclear Regulatory Commission News Summary and Clips are attached.

Website: You can also read today's briefing, including searchable archive of past editions, at <http://www.BulletinNews.com/nrc>.

Full-text Links: Clicking the hypertext links in our write-ups will take you to the newspapers' original full-text articles.

Interactive Table of Contents: Clicking a page number on the table of contents page will take you directly to that story.

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NUCLEAR REGULATORY COMMISSION NEWS SUMMARY

WEDNESDAY, MARCH 16, 2011 7:00 AM EDT

WWW.BULLETINNEWS.COM/NRC

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NRC NEWS:

Obama Touts NRC's Work, Vows Focus On Nuclear Security At Home.

President Obama addressed the crisis in Japan during interviews with local TV stations yesterday. The President's comments, in which he tried to reassure the country about the potential danger from nuclear power, received little attention from major news media outlets, including the network newscasts. In print media, meanwhile, analysts continue to ponder the crisis' impact on the US nuclear industry and the White House's energy policies.

[AFP](#) (3/16) notes that Obama "emphasized that the US Nuclear Regulatory Commission 'thinks through all eventualities,'" adding, "I do think it's important for us to think through constantly how can we improve nuclear technologies to deal with additional safety concerns that people have." The [AP](#) (3/16) reports that in his local TV interviews, Obama defended "nuclear power as an important source of energy in the US," while warning that "all energy sources have downsides and none are foolproof." Adds the AP, "The president has been doing a series of interviews with local television stations as the White House seeks to get his message beyond the Washington beltway as he prepares to run for re-election in 2012."

[Politico's](#) Matt Negrin and MJ Lee (3/16) report in a blog entry that Obama "granted local reporters...interviews in the Map Room as part of his effort to sell his education agenda. But the earthquake in Japan -- and even his NCAA bracket -- arose as topics in the interviews."

[WVEC-TV](#) Norfolk, Virginia (3/15, 11:05 p.m. EDT) showed Obama telling interviewer Regina Mobley, "I still think nuclear power is an important part of our overall energy mix, but I think, like anything else, we have to do it in a safe and sensible way."

[WPCW-TV](#) Pittsburgh, Pennsylvania (3/15, 10:15 p.m. EDT) reported that Obama told anchor Jon Delano, "Our hearts go out to the people of Japan. They are dealing with a triple whammy, the earthquake, tsunami and now this nuclear accident, so we're providing them all the support we can." Obama added, "Each time these kinds of events happen I think it's important for us to examine how we can further improve the safety and performance of these plants."

Under the headline "Obama's Energy Policy Faces Pressure," meanwhile, the [Wall Street Journal](#) (3/16, Weisman, Power, 2.09M) reports that the White House is so far resisting proposals by a number of Democrats (including Senate leader Harry Reid, House Minority Whip Steny Hoyer and Rep. Ed Markey) for a review of US nuclear plant safety. White House press secretary Jay Carney said of the Democrats' plans, "He doesn't have to order a review because they're constantly going on." Energy Secretary Steven Chu, meanwhile, appeared before a Hill committee yesterday, and stated that "the United States has rigorous safety regulations in place to ensure that our nuclear power is generated safely and responsibly." [Fox News' Special Report](#) (3/15, Baier) showed Chu saying, "We look to what's the maximum size of that particular earthquake that geologists tell could ever happen and we design considerably above that."

[USA Today](#) (3/15, Eisler, Schmit, Leinwand, 1.83M) reports, "In the United States, where 104 nuclear power reactors provide about 20% of the nation's electricity, the Japan disaster threatens to undermine a tenuous coalition of industry and environmental groups that support...Obama's push to make nuclear power a significant piece of the nation's long-term push toward energy independence." Moreover, "it...could change the way the government reviews and renews permits for existing plants." NRC officials "have said the commission will review its regulatory posture based on the events in Japan. They have been circumspect, however, about whether or how its rules or approach may change."

[Fox News' Special Report](#) (3/15, Baier) reported showed Markey saying, "I think there should be a moratorium on any further permitting for the nuclear power plants in the United States that are in earthquake prone areas." However, according to Fox, Republicans "say there have already been enough delays." Sen. James Inhofe said, "There has been a

pause for 15 years now. I think it's time to continue on. ... The majority in here, I think, would agree that we are going to have to have nuclear power."

Sen. Mike Lee, on [CNBC's The Kudlow Report](#) (3/15), said, "I intend to stay behind nuclear power as a clean, safe form of electric power generation. Look, we can learn from this, we can improve upon it. And I think they will avert disaster over there. And I think we can learn from what's happening there to make our reactors safer."

Bill O'Reilly, in his opening monologue for [Fox News' The O'Reilly Factor](#) (3/15), argued that "the worldwide media is hyping the situation in Japan a bit too much. ... The truth is no one knows how bad this is. However, that doesn't stop the hype," and "all the uncertainty is leading to semi-chaos in the stock markets."

Concerns Raised About GE's Mark 1 Containment System. The [New York Times](#) (3/16, A14, Zeller, 1.01M) reports on it the warnings issued "repeatedly" and "as far back as 1972" about the GE Mark 1 design, that if "the cooling systems ever failed," the "primary containment vessel surrounding the reactor would probably burst as the fuel rods inside overheated." With one "Mark 1 containment vessel damaged at the embattled Fukushima Daiichi nuclear plant and other vessels there under severe strain, the weaknesses of the design -- developed in the 1960s by General Electric -- could be contributing to the unfolding catastrophe." The Times adds the type of "containment vessel and pressure suppression system used in the failing reactors" at the Fukushima Daiichi plant "is physically less robust, and it has long been thought to be more susceptible to failure in an emergency than competing designs."

The [Washington Post](#) (3/16, Mufson, Yang, 605K) reports that the crisis in Japan "has spawned new looks at -- and revived old debates about -- US nuclear plants and how prepared they are for natural or man-made disasters." Because the crisis "started with a loss of grid and generator power, backup electrical systems are being looked at anew." An NRC spokesperson "said all 23 GE boiling water reactors in the United States have satisfied regulators' earlier concerns about the ability to withstand a severe incident," and David Lochbaum of the Union of Concerned Scientists said, "To be fair to General Electric and that design, I don't know of any other designs that would've fared much better," adding the Fukushima plants' biggest problems weren't containment design, but "the loss of power."

The [Boston Herald](#) (3/16, McConville, Weir, 123K) NRC Chairman Gregory Jaczko who said at a White House press briefing that the NRC has "a very strong [reactor oversight and approval] program in place," and he added, "As we get more information from Japan, as this immediate crisis ultimately comes to an end, we will look at whatever information we can gain from this event and see if there are

changes we need to make to our system." Indeed, [NPR](#) (3/16, Horsley) says Chairman Jaczko "insists the problems at the Fukushima Daiichi reactors have not shaken his confidence. 'Whenever there's any new information, we always make changes, if necessary. But right now we continue to believe that nuclear power plants in this country operate safely and securely.'"

Nuclear industry representatives and government officials in the US are offering assurances that nuclear power is safe, [Voice of America](#) (3/16, Bowman) reports, but "industry watchdogs say that simply is not so." Kevin Kamps of Beyond Nuclear said, "Obviously the Japanese, the most prepared for earthquakes and tsunamis than any country in the world, underestimated the potential of a 9.0 earthquake. Obviously there has to be a reappraisal of safety risks," of nuclear power. Meantime, Arjun Makhijani of the Institute for Energy and Environmental Research "wants a thorough re-evaluation of US nuclear power plants in coastal areas and along seismic fault lines."

GE Defends Mark 1 Design. [Greenwire](#) (3/15) noted that GE, the "supplier of Japan's now-stricken reactor, defended the design of its product, saying the containment system is safe and reliable." GE dismissed criticism of the design's containment system. "'The BWR Mark 1 reactor is the industry's workhorse with a proven track record of safety and reliability for more than 40 years,' said Michael Tetuan, spokesman for GE Hitachi Nuclear Energy. 'There has never been a breach of a Mark 1 containment system.'"

Lawmakers Ask NRC For Details On Seismic Safety At Nuclear Plants. [All Headline News](#) (3/16, Sullivan) says Rep. Ed Markey (D-MA), "who has spent years pushing the Nuclear Regulatory Commission toward stricter enforcement of its safety rules, has called for a reassessment" of nuclear plants that "lie on or near fault lines, and Markey wants to beef up standards for new and existing plants."

[Bloomberg News](#) (3/16, Van Loon, Chediak) notes Rep. Markey's call "for a moratorium on permits for reactors in seismically active areas. 'This is going to cause real tremors in the nuclear investment area,' Markey told Peter Cook on Bloomberg Television's 'In the Loop.'" Markey wants "more information on the seismic safety features of US reactors near earthquake-prone zones" and in a letter to the NRC said, "We are concerned that these reactors may not have the features necessary to withstand the sort of catastrophic earthquake and tsunami that has crippled several reactors in Japan."

In a piece appearing on the [Noozhawk](#) (3/16) of Santa Barbara, California, Ashley Schapitt, press secretary for Rep. Lois Capps (D-CA), writes that Rep. Capps, "joined colleague Rep. Edward Markey, D-Mass., on Tuesday to call for more information on the seismic safety features that are included in nuclear reactors in operation in the United States." Schapitt said Capps and the other lawmakers sent a letter to NRC

Chairman Greg Jaczko "requesting information on the safety-significant structures, systems and components of America's nuclear reactors, including power plants' ability to sustain cooling function during a total station blackout, a situation that is affecting the Japanese reactors in distress."

On its website, [Third Age](#) (3/16, Cusimano) notes that while Rep. Markey "called for tougher regulations on US nuclear plants, including requiring more cooling fluids to help shut down reactors if necessary and the distribution of potassium iodide to people who live within a 20-mile radius" of a nuclear plant, "Tony Pietrangelo of the Nuclear Energy Institute insisted that nuclear plants in the US are 'designed to withstand the most severe seismic events or earthquakes, as well as tsunamis where applicable, and flooding.'" Pietrangelo said that in particular, the "West Coast plants are designed to higher standards than the Central and Eastern United States."

AEC Regulator Faulted For Approving Pressure Suppression Containment System. In a post on [Huffington Post](#) (3/15), Jim Morris And Aaron Mehta, of the Center For Public Integrity, write, "In the early 1970s, just as a number of reactors were about to be licensed, Stephen Hanauer, a senior member of the Atomic Energy Commission staff, suggested banning 'pressure suppression' methods to contain radiation in the event of a meltdown -- methods built into General Electric's Mark I and Mark II containment designs as well as Westinghouse's ice condenser design." Instead, "regulators ultimately decided that the technology developed by General Electric and Westinghouse was 'firmly embedded in the conventional wisdom.'" The post indicates Joseph Hendrie, then a deputy director with the AEC, made the decision on the pressure suppression technology out of pragmatic concerns rather than for safety reasons, saying Jim Riccio of Greenpeace argued that such rationale is "endemic in the culture of the NRC as it deals with the prevention of low-probability, high-consequence accidents."

Financial Analyst Says Concerns About Disaster Are Overblown. The [AP](#) (3/16) reports that in an analysis of the Japanese plant failures and their implications for nuclear power and Entergy Corp. in particular, "Jefferies analyst Debra Bromberg said that concerns stemming from the disaster in Japan are overblown, and that US regulators likely will focus on improving backup systems at US facilities rather than requiring major modifications. The situation in Japan does not 'seem to be terribly significant' for Entergy, Bromberg said."

NRC, DOE Heads To Discuss Japan Nuclear Crisis At Hearing. [The Hill's](#) (3/16, Restuccia, Geman) "E2 Wire" blog notes that while NRC Chairman Jaczko "made the rounds on Capitol Hill Monday in an attempt to reassure lawmakers that US nuclear reactors can withstand major natural disasters," Senate Majority Leader Harry Reid (D-

Nev.) "said Tuesday that policymakers must be cautious about nuclear power in light of the disaster in Japan. 'I don't think we should just eliminate the need for nuclear power, but I think it's something we have to look at very calmly and deliberately,' he said." The Hill notes that Chairman Jacczo and Energy Secretary Steven Chu will testify before the House Energy and Commerce Committee. What was originally intended to be a discussion of the NRC and DOE fiscal year 2012 budget plans, will likely become a discussion of the Japanese nuclear crisis.

DOE Secretary Chu Says US Will Learn From Japan, Defends Nuclear Power. The [Los Angeles Times](#) (3/16, Muskal, 681K) reports that during testimony Tuesday before a House Appropriations Committee panel that is looking at the Department of Energy's budget requests, Energy Secretary Steven Chu assured that "the United States remains committed to nuclear power...even as Japan sought to contain the nuclear danger at the Fukushima Daiichi plant. ... The secretary, a Nobel Prize winner in physics, reaffirmed the administration's position that the United States will learn from Japan's difficulties but remained committed to safe nuclear power as part of an energy mix." Said Chu, "The American people should have full confidence that the United States has rigorous safety regulations in place to ensure that our nuclear power is generated safely and responsibly," adding, "The administration is committed to learning from Japan's experience as we work to continue to strengthen America's nuclear industry."

The [AP](#) (3/16) adds that Secretary Chu said the initial step in responding to the unfolding disaster in Japan "is to help the Japanese government cool down the damaged reactors and to stop the leaking radiation. After the reactors are secure, he said, the next step would be to understand what happened, and then assess whether US reactors have similar vulnerabilities." In response to questions from the panel, "he said that reactors in the US are designed above what would be required to withstand a worst-case earthquake and tsunami."

The [Politico](#) (3/16, 25K) "44" blog reports that Chu told the panel, "I still feel that it's probably premature to say anything but to say that we will learn from this," including whether "there is something we have overlooked over in the United States."

In a separate story, the [Los Angeles Times](#) (3/16, Hennessey, 681K) reports Chu said of the Administration's commitment to nuclear power, "The administration believes we must rely on a diverse set of energy sources, including renewables like wind and solar, natural gas, clean coal and nuclear power." Regarding "the first wave of four new nuclear projects, just one remains clearly on track -- two new reactors at the Vogtle plant near Augusta, Ga., Chu told lawmakers, adding that investors will likely look even harder at whether

nuclear plants will be safe." He also pointed out that "all forms of energy do present risks."

According to a story on the [CNN](#) (3/16) website, "Members of the House panel expressed a need for caution in moving forward with nuclear power but appeared generally supportive of the administration's stance."

During his testimony, [Bloomberg News](#) (3/16, Snyder) reports, Secretary Chu also "said the US doesn't need to suspend work on new nuclear permits while investigating the crisis in Japan," explaining that "the Nuclear Regulatory Commission review is long enough that revisions can be made to reflect findings from the examination of failures at Tokyo Electric Power Co.'s Daiichi nuclear station." Said Chu, "If you look at the process in which the NRC approves going forward with construction projects and nuclear reactors, it's a thoughtful process," adding, "It's a multiyear process and because of its very nature, I think these things can proceed."

[Reuters](#) (3/16, Doggett, Mason) adds that Chu said of the NRC review process, "I think we're in good hands."

Chu Says "Essentially No Concern" About Radiation's Effect On US. Secretary Chu also told the panel, [AFP](#) (3/16) reports, "that quake-battered Japan's nuclear crisis posed 'essentially no concern' for the health of people in the United States." Said Chu, "I think there's essentially no concern in terms of the health effects on American shores."

In a story discussing why federal officials are so confident that radiation won't reach the US, the [Christian Science Monitor](#) (3/16, 48K) reports that Chu told the panel "he was up early Tuesday morning looking at atmospheric models produced by his department to see where radiation might travel."

Chu, Surgeon General At Odds Over Run On Radiation Pills. The [CBS Evening News](#) (12/6, lead story, 3:30, Couric, 6.1M) reported that "US officials say it's unlikely dangerous levels of radiation will reach Hawaii or the US mainland." The [AP](#) (3/16) similarly says that "there's little chance...that radiation from the shattered reactors could pose a serious threat to the wider world. Experts say the amount of radioactivity emitted by the facility has been relatively minor and should dissipate quickly over the Pacific Ocean." The [CBS Evening News](#) (12/6, story 7, 2:05, Couric, 6.1M) went on to report, however, that "there's still a lot of understandable concern" on the West Coast.

[ABC World News](#) (3/15, story 5, 2:15, Harris, 8.2M) reported that "across the country...the radiation fears are palpable: There's a run of iodide pills, Geiger counters, and emergency kits on Amazon.com." [NBC Nightly News](#) (3/15, story 5, 2:20, Welker, 8.37M) also noted that "the pills used to protect the thyroid from the effects of radiation are in high demand," and "in San Francisco" on Tuesday, "even the US Surgeon General said it's a good idea." Regina Benjamin

was shown saying, "It's definitely appropriate, we have to be prepared."

The [Wall Street Journal](#) (3/16, Weisman, Power, 2.09M), meanwhile, notes that appearing before a congressional panel, Energy Secretary Chu commented on the runs on potassium iodine pills, saying, "There's really no concern in terms of the health effects on American shores. ... I think they really shouldn't be doing those things, quite frankly. But it's a free country."

The [AP](#) (3/16) reports that "even on the East Coast, some health departments reported increased interest from power-plant neighbors Tuesday: A Pennsylvania hotline that normally gets five to 10 calls a week about storing the pills has fielded 85 such inquiries in the past two days."

[McClatchy](#) (3/16, Hotakainen, Schoof) reports that "on Capitol Hill," Rep. Markey "called on the Obama administration to supply all US citizens living within 20 miles of a nuclear plant with emergency pills."

Potassium Iodide Quantities Running Short In US.

[Greenwire](#) (3/16, Northey) reports, "US manufacturers of potassium iodide pills are reporting 'overwhelming demand' and some temporary shortages, even though federal regulators say radiation from Japan's crippled Fukushima Daiichi nuclear plant is not expected to reach America." Manufacturer Anbex Inc., of Virginia, said its supply was exhausted until April. KI is "one of three FDA-approved drugs that block human and animal thyroid glands from absorbing excessive amounts of radiation." The "Food and Drug Administration (FDA) issued a final guidance on potassium iodide in 2001 to inform decisions by regulatory agencies, including the NRC and state and local governments, on the safety of the pills." After studying the Chernobyl plant disaster, FDA found that KI "effectively blocks the thyroid from taking up radioiodine."

Conservatives Question Obama's Level Of Engagement. At the opening of [Fox News'](#) Glenn Beck (3/15), Glenn Beck listed the various major crises around the world and then asked, "So what is our president doing?" According to Beck, the President "went off to...a Stevie Wonder private concert at the White House, and then he went to play golf the Saturday before last and then this Saturday. And before he went to golf he gave a Saturday radio address" on "women's history." Beck continued, "Has somebody hit this man with a stupid stick or a tranquilizer dart? ... On the radio I said at least he isn't giving predictions for 'March madness' this year. I'm sorry, I have to lead with my mistake. He taped it today for air tomorrow on ESPN."

Sean Hannity, on [Fox News' Hannity](#) (3/15), said the President's "response to the situation in Japan is raising some eyebrows. ... On Saturday, hours after the quake struck he went golfing. And later he attended a dinner with members of

the...media, and" on Tuesday "spent his afternoon filling out his NCAA brackets for ESPN. Sadly, none of this is a joke."

EPA Poised To Deploy More Electronic Radiation Monitors In Western US, Territories. The [San Jose Mercury News](#) (3/16, Rogers) reports that "the US Environmental Protection Agency on Tuesday announced that it will deploy more electronic monitors that measure radiation levels in the air," though agency officials, "refused to answer questions or make staff members available to explain the exact location and number of monitors, or the levels of radiation, if any, being recorded at existing monitors in California. Margot Perez-Sullivan, a spokeswoman at the EPA's regional headquarters in San Francisco, said the agency's written statement would stand on its own." Meantime, critics, including Sierra Club California director Bill Magavern said the public needs more information. "I have a strong suspicion that EPA is being silenced by those in the federal government who don't want anything to stand in the way of a nuclear power expansion in this country, heavily subsidized by taxpayer money."

California Officials Have Not Checked Monitors.

The [San Jose Mercury News](#) (3/15, Rogers) reports that while the public health threat from the crisis in Japan "probably remains very small" for Californians, that "didn't stop some worried California residents from rushing to buy potassium iodide, which blocks the uptake of radioactive material to thyroid glands." State health officials meantime, "said Monday that they haven't checked radiation monitors around the state for any rise in levels. 'We're not being told there's any reason to check the monitors,' said Michael Sicilia, spokesman for California Department of Public Health. 'We generally pull them once a month. If we're told by the feds we need to test them, we'll test them.'"

California Plants More Vulnerable To Onshore Faults. [Greenwire](#) (3/16, Sullivan) reports, "California's coast and its nuclear power plants are unlikely to experience the kind of massive offshore earthquake or sustained tsunami that rocked Japan last week, but more local tsunamis from submarine landslides are possible, according to experts who study West Coast tectonics." Greenwire notes that Diablo Canyon and San Onofre plants "are built to withstand earthquakes of 7.0-7.5 magnitude, and both have tsunami walls that are 25 to 30 feet tall," but both facilities "are more threatened by onshore faults than offshore, with Diablo Canyon especially vulnerable given its proximity to the San Andreas Fault."

Napolitano: US "Constantly" Preparing For Major Disaster. DHS Secretary Janet Napolitano's speech yesterday at a Denver conference on fusion centers was largely overshadowed by her comments on the country's ability to respond to a major disaster similar to the one that continues to take its toll on Japan. Napolitano "said the

United States was already planning a drill based on a hypothetical major earthquake along the New Madrid fault in the central US when the earthquake, tsunami and nuclear-reactor crisis struck Japan," the [AP](#) (3/15) reported. She said the US is "constantly practicing, using scenarios that are worst-case scenarios, to make sure we are as prepared and as up-to-date and as ready to go as we can be in any kind of a crisis." She noted that her department works with the Nuclear Regulatory Commission to prepare for a potential crisis at a nuclear reactor. Napolitano also "cited NRC assurances that any fallout from the Japanese reactors would not put the US at risk."

The [Denver Post](#) (3/16, Cardona, 364K) reports that "while the focus of the gathering was to discuss sharing intelligence in communities to prevent terrorist attacks, Napolitano answered questions about America's preparedness for a major disaster." Napolitano said that "just as we have learned from Hurricane Katrina and the BP oil spill, I am sure in the aftermath, we will learn something from the tragedy in Japan." However, "Napolitano said the threat Americans need to be most concerned with are homegrown terrorists who are plotting attacks within our borders." She told the audience that "homeland security begins with hometown security, and our national network of fusion centers plays a critical role in improving our collective ability to protect our communities."

[Fox News](#) (3/15, Burke) reported on its website that Napolitano said DHS "[practices] with the guidance and participation of the NRC...what would happen if something were to occur to one of the nuclear power plants in the United States." Fox added, "While not a specific response to the crisis in Japan, the planned National Level Exercise in the New Madrid Seismic Zone is timely, as there are several nuclear power plants in the region."

"We constantly think about, prepare, exercise, work with our states, our localities, our utilities and the private sector on thinking about what would occur and exercise to the point of failure," Napolitano told [ABC News](#) (3/15, Bingham, Sandell) following the Tuesday conference. She also "sought to quiet fears of radiation drifting from Japan to California shores," noting that "the level of radiation coming out of Japan does not put the United States at risk."

On its website, [KMGH-TV](#) Denver (3/15) reported, "US emergency agencies constantly rehearse for a disaster like the one unfolding in Japan, and American first responders will learn from the experience of their Japanese counterparts, [Napolitano] said Tuesday." Meanwhile, the New Madrid drill, "scheduled for May, coincides with the bicentennial of a series of three quakes on the New Madrid fault in 1811-1812, which were estimated to have ranged from 7.5 to 7.7 magnitude -- some of the largest ever in the United States."

NRC Delays Issuing Vermont Yankee License Extension. The [Boston Globe's](#) (3/16, Daley) "Green Blog" notes that the NRC "put a temporary hold on a 20-year license extension for the controversial Vermont Yankee nuclear power plant." NRC spokesman "Neil Sheehan attributed the delay to the fact that manpower is short while the agency focuses resources on helping Japan deal with the unfolding nuclear crisis triggered by the natural disaster." But plant opponents are calling attention to the fact that Yankee plant is "the same design as the most compromised reactor in Japan," and they urged that the delay "be far longer -- until the agency can assure the public the plant is safe." James Moore, of the Vermont Public Interest Research Group said he thought it "prudent to take a step back and say this reactor design is having serious problems in Japan," adding, "The last thing we should do is say it is good to go for another 20 years past its expiration date."

The [AP](#) (3/16) reports on NRC's mention that "Yankee's license renewal is still coming, but will be delayed because agency workers are busy with events in Japan." NRC Chairman Gregory Jaczko said Yankee "had satisfied his agency that it was fit to operate for 20 years past the expiration date of its original license next March." The relicensing paperwork had been expected this week, but with "NRC deploying staff members to help with the nuclear emergency in Japan, the NRC now is going to take a bit more time to finish the paperwork."

Decision On New Reactor Fuel May Determine Yankee's Immediate Future. In a commentary from the [Bennington \(VT\) Banner](#) (3/14, 6K), John McClaughry, vice president of the Ethan Allen Institute, "Three months from now, Entergy Nuclear Vermont Yankee will be forced to make a fateful decision: whether to give in to the furious anti-nuclear campaign led for years by Vermont's anti-nuclear new governor, and abandon a safe, reliable, low-cost, nuclear plant that generates about a third of Vermont's electrical consumption." Given the apparent refusal by leaders in the state House and Senate to allow a vote on whether Yankee plant should continue to operate, plant officials have to decide soon whether to order new nuclear fuel for an expected refueling outage sometime around November. Yankee would have to "place its order in June" for new fuel. "What company is going to spend millions of dollars on 18 months' worth of new fuel, when thanks to anti-nuclear politicians the plant would have only three months of operation left?"

On its website, [State Column](#) (3/16) reports, "Vermont state law says the Legislature has to approve the plant before regulators can give the plant a new state license," and the "increasingly dire situation in Japan has prompted politicians worldwide to reconsider the risks associated with nuclear power."

Vermont Yankee, Fukushima Plants Are GE Mark 1 BWRs. The [Keene \(NH\) Sentinel](#) (3/16, Jarvis, Eisenstadter, 11K) notes that the "reactor at the Vermont Yankee nuclear power plant is the same design as those damaged by the earthquake and tsunami in Japan, but officials at the Vernon, Vt., plant say that's where the similarities end." Yankee spokesman Larry M. Smith, said the Vermont plant "which has a General Electric Mark 1 boiling water reactor, would safely shut down at or above a 6.2 magnitude earthquake, and the cooling systems would kick in." The plant would continue to operate normally after quake up to 5.5 magnitude. The Fukushima plant reactors appear to have shut down properly following the earthquake, but they couldn't "survive the devastating tsunami that followed."

[Reuters](#) (3/16, Dillon) reports that nuclear engineer and critic, Arnold Gundersen said that plants in the US, including Vermont Yankee are vulnerable to the same type of cascade of events that has befallen Japan's Fukushima Daiichi plant facility. Speaking about Yankee plant, Gundersen said "We're not going to have a tsunami in the Connecticut River," but he noted that a offsite power failure combined with a flood could create a scenario in which the pumps that draw cooling water from the river are disabled. "We really need to go back and evaluate what really is the worst case."

Keene Sentinel Questions NRC's Wisdom In Relicensing Vermont Yankee. In an editorial, the [Keene \(NH\) Sentinel](#) (3/16, 11K) says that while it would "inappropriate, or at least premature, to draw safety parallels between Vermont Yankee and the troubled reactors in Japan," it should be "noted that Vermont Yankee is a General Electric boiling water nuclear plant, as is Fukushima Daiichi Unit I, the first of the plants in Japan to lose its cooling power and then explode." The Sentinel adds that as Japan tries "desperately to deal with the dark underside of nuclear power," in this "country, regulators have just renewed the 63rd consecutive license renewal request."

Dominion To Seek License For Third North Anna Reactor Despite Japan Crisis. On its "All Opinions Are Local" blog the [Washington Post](#) (3/15, Galuszka, 605K) reports, "Despite Japan's nuclear disaster, Dominion Virginia Power intends to proceed with seeking a license for a third nuclear unit at its North Anna nuclear power station about 70 miles southwest of Washington." Dominion "hasn't decided if it would proceed with a third North Anna unit, but is getting its ducks in a row just in case."

The "Virginia Politics" blog of the [Washington Post](#) (3/15, Helderman, 605K) reports, "Virginia Gov. Bob McDonnell said Tuesday that it would be 'foolhardy' to abandon the construction of nuclear reactors in Virginia and elsewhere in the United States because of the unfolding nuclear crisis at earthquake and tsunami-damaged plants in

Japan." McDonnell said in an interview that he is "a longtime supporter of nuclear power" and "characterized the problems in Japan as the result of 'historic' and 'cataclysmic' events." The blog also notes, "Dominion Virginia Power has applied to build a third reactor at one of its two plants at North Anna in Louisa; the company has confirmed it will proceed with its application despite the events in Japan."

[WWBT-TV](#) Richmond (3/15, Morgan) reports, "Meanwhile people who live near the nuclear power plant said they're not fearful, despite the disaster in Japan." Tara Woods resident Shirley Jones said, "One thing I do think about, and I think that probably everybody that lives in an area around any of those nuclear plants think about, the property values and will this scare people."

The [Virginia Gazette](#) (3/16, Langley) reports, "The Surry station earns high safety marks among federal regulators and even among private nuclear watchdogs." Union of Concerned Scientists nuclear safety analyst David Lochbaum "reviewed all public information on 10 reactors for a special report on plant safety" and said, "The Surry plant was the safest plant of the 10 we monitored."

[WTKR-TV](#) Norfolk (3/16) reports on its website that the asked Dominion the question "Are we safe?" Dominion's Rick Zuercher responded, "We are safe here. Our nuclear power plants are among the top operators in the industry." He adds, "I don't think that we would see a tsunami, necessarily, at the Surry Power Station, but we could see a surge in a big storm and we evaluated that and fixed the station to be able to withstand that."

In the "Wednesday's Last Word On Tuesday" section of the [Virginia Gazette](#) (3/16) a reader wrote, "Most of us are unaware that we are a stone's throw from the Surry Nuclear Power Station. Those of us who live outside the 10-mile radius no longer receive the Surry calendar, which gives information on drills, evacuation policies. In light of the damage to Japan's power plants, this might be a good time to make residents aware of the unlikely but potential danger and state of preparedness."

A blog posting about iodide pills on the [Fredericksburg Free Lance Star](#) (3/15, Hall) notes, "The Health Department has a supply of the pills at its local offices and is offering them free to those who live within 10 miles of the North Anna plant." But a blog posting on the [Newport News Daily Press](#) (3/15) website says that the NRC's "current position is that iodine pills don't make sense beyond a 10-mile radius."

An article by the [IDG News Service](#) (3/16, Vijayan) reports notes that the Surry Power Station is one of at least two plants to participated in the NRC's State of the Art Reactor Consequence Assessment. SOARCA was developed "to better understand how a nuclear reactor would behave in a severe accident, as well as what sort of radioactive release it would cause." The [Charlottesville Daily](#)

[Progress](#) (3/15, McKenzie) and the Charlottesville-area website [The Hook](#) (3/15, Ward) also reported on the North Anna Power Plant.

Despite Crisis In Japan, Top Maryland Officials Express Support For Calvert Cliffs.

The "Inside Politics" blog of the [Washington Times](#) (3/15, Lengell, 77K) reports, "While Japan holds its collective breath as earthquake-damaged nuclear power plants there teeter on the brink of meltdown, House Minority Whip Steny H. Hoyer said Tuesday he remains a supporter of nuclear power in the US" Hoyer told reporters yesterday, "As one who has a reactor in my community in Calvert County and who is a strong supporter of nuclear power, I share the views that we have to look very carefully at the safe operation of those plants and the security of those plants." He added, "But, you know, what has happened in Japan clearly ought to motivate us to look very carefully at present facilities, including Calvert Cliffs." [Dow Jones Newswires](#) (3/15) also reports on Hoyer's statements and notes that Constellation has made financial contributions to his last two political campaigns.

The website of [WMAL-AM](#) Washington, DC (3/16) reports, "Brew Barron, CEO of Constellation Energy says residents of Lusby and Calvert County can be confident of the nuclear safety measures at Calvert Cliffs, which has more layers of backup protection systems than the ones in Japan."

On its website [WBAL-TV](#) Baltimore (3/16) reports, "A new reactor at Calvert Cliffs in Maryland is part of the plan for the future." On Tuesday, Gov. Martin O'Malley "expressed his support for a new reactor." WBAL notes, "At one time, the Calvert Cliffs III plan was thought to be a model for nuclear power expansion in the US, but then Constellation Energy backed away from the deal with a French partner, leading to a whole new round of uncertainty." [WYPR-FM](#) Eastern Shore (3/15) also notes Gov. O'Malley's support for the Calvert Cliffs 3 project.

Constellation's Wallace Says Plants Are Prepared For Natural Disasters. In an interview on [CNBC](#) (3/15, 8:55 EST), Michael Wallace, Constellation Energy's chief operating officer and Nuclear Energy Group chairman, said that the company's nuclear plants test against the "very stringent standards" provided by the Nuclear Regulatory Commission on "seismicity, tsunamis, and other natural disasters." Wallace added that these tests, in combination with the design of the plants, gives him "confidence" that their plants will operate "safely against any natural hazard, even when combined with other events." Wallace also said that he doesn't believe that the "appetite" for nuclear plants in the US will go away due to Japan's nuclear crisis.

Kewaunee, Point Beach Can Withstand Disasters, Officials Say. In Wisconsin, the [Pierce](#)

[County Herald](#) (3/16) reports, "Officials say Wisconsin won't have to worry about radiation spilling from its nuclear plants, after a release in Japan in the wake of the tsunami." According to the NRC "the Kewaunee and Point Beach nuclear plants on Wisconsin's eastern shore were made to survive the worst natural disasters on record" and "have pressurized water reactors – while the Japanese units have reactors with boiling water."

According to the [Milwaukee Journal Sentinel](#) (3/16, Content, 206K), "The Kewaunee and Point Beach nuclear plants have underground fuel tanks for diesel generators that would kick in if there were a loss of power and cooling systems needed to keep running, plant representatives said Tuesday."

The [AP](#) (3/16) adds, "Kewaunee spokesman Mark Kanz says there are lessons to be learned from the tragedy in Japan, so officials are re-evaluating all safety measures they have in place. WLUK-TV says managers of both plants work closely with surrounding communities to make sure everyone is up to date with emergency plans." [WISC-TV](#) Madison, WI (3/16) is covering this story on its website. The [Green Bay Press-Gazette](#) (3/15, Phelps) notes that the NRC recently renewed Kewaunee's operating license.

Spent Fuel Pool Fire Points To Similar Vulnerabilities In US Plants, Experts Say.

[Greenwire](#) (3/15, Northey, Mandel) reports on the apparent fire at Fukushima Daiichi Station's Unit 4 spent fuel pool, which "released radiation directly into the air before the fire was brought under control and extinguished, according to the International Atomic Energy Agency (IAEA)." The spent fuel pool is located next to the plant's containment building "and is normally under the roof of an outer building," but the "outer building may have blown off, as the IAEA reported that the pool was open to the atmosphere and that 'Japanese authorities are saying that there is a possibility that the fire was caused by a hydrogen explosion.'" Greenwire adds Natural Resources Defense Council, nuclear physicist, Thomas Cochran thought that "the occurrence of a fire indicates some sort of damage to the pool itself, to have allowed the water level to so quickly fall low enough for the used fuel to overheat."

NRC Using SOARCA Modeling To Gain Better Understanding Of Accidents.

On its website, [Network World](#) (3/16, Vijayan) reports that the NRC has long been engaged in an effort to "gain a better and more realistic picture of precisely what would happen if a similar accident occurred in this country." Under a "project called State of the Art Reactor Consequence Assessment (SOARCA)," the NRC hopes to "better understand how a nuclear reactor would behave in a severe accident, as well as what sort of

radioactive release it would cause." Network World adds, "What's different with SOARCA, says the NRC, is that it uses modern computing resources and modeling software to generate more accurate and realistic accident simulations" and is able to examine "extremely rare, 'one-in-a-million'-type accidents that could have a significant impact."

Risk Experts Say Costs Of Similar Accident In US Could Be "Unimaginable". [Government Executive](#)

[National Journal](#) (3/16, Tankersley) reports, "An American nuclear power-plant accident similar to the ongoing disaster in Japan would leave taxpayers on the hook for billions, and perhaps hundreds of billions, of dollars in health and economic damage claims, risk experts estimate." In a 2009 paper warning of excessive taxpayer exposure to the risks of nuclear catastrophe, Geoffrey Heal and Howard Kunreuther assert that the "regulators have not enforced safety standards vigorously enough to fully safeguard against" the significant risks of an accident. Heal is a Columbia University professor, and Kunreuther serves at the Risk Management and Decision Processes Center at the University of Pennsylvania's Wharton School of Business. While acknowledging that the risks and costs of a nuclear accident in the US are "difficult to quantify," Heal and Kunreuther say "the upper-end damage estimates of a full core meltdown are almost 'unimaginable.'"

USA Today: Nuclear Energy Still Viable Alternative. [USA Today](#)

(3/16, 1.83M) editorial portrays the "out of control" situation at the Fukushima Dai-Ishi nuclear plant in Japan, noting that the situation there "has to make even strong supporters of nuclear power, including us, wonder just how vulnerable US plants are, and whether building more makes sense." The piece notes that the failures at the "meticulously engineered" plant beg the question of how vulnerable US reactors are, but notes that the US "doesn't have the option to walk away from nuclear power, which supplies almost 9% of the nation's energy and about 20% of its electricity." Moreover, all major systems of electric generation have drawbacks and create pollution. The piece concludes that until clean renewable energy sources are perfected, "the best approach to energy disasters is the same one applied to air crashes: Study the causes carefully, learn from the mistakes, and adopt changes to make the systems as safe as humanly possible."

Speculation Considers Future Of Nuclear Energy. [NPR's](#)

(3/16) "Talk of the Nation" featured a segment on the Japanese crisis's impact on "the renewed push for nuclear energy" in the United States and other countries. The piece begins with an update on the current situation at the Fukushima plant, including a "spike" in

radiation levels. Science correspondent Jon Hamilton addresses speculation about a potential full meltdown and the impact of the weather, and the piece segues into a discussion on what the disaster could mean for the future of nuclear power in the US and elsewhere. Host Neil Conan noted that "administration officials in a briefing at the White House dismissed calls for a freeze on nuclear power," and discusses how the impact on solar and wind energy.

Duke, Progress Energy Remain Steadfast On Plans To Bring Nuclear Plants To North Carolina. [WRAL-TV](#)

Raleigh, NC, (3/15), an affiliate of CBS, reported that "despite a nuclear crisis looming in Japan, officials with North Carolina's two largest utilities said they remain focused on bringing new nuclear plants to the state." The TV station said "Duke officials appeared before the North Carolina Utilities Commission on Tuesday requesting approval to spend \$459 million in development costs for a two-unit nuclear plant near Gaffney, S.C." Progress Energy, which is in the process of completing a merger with Duke, "has plans to build two reactors at the Shearon Harris nuclear site in Wake County."

North Carolina Nuclear Bill Faces Delay Due To Japan Crisis. [The Charlotte Business Journal](#)

(3/16, Downey) reports, "N.C. legislators had planned to introduce a bill this week making it easier for utilities to recover financing costs for nuclear plants during construction, but they delayed the filing because the still-unfolding nuclear accident in Japan." Duke Energy Chief Executive Jim Rogers Tuesday told the N.C. Utilities Commission: "They were going to introduce (the legislation) this week," but "the decision was made that this would not be the best week to do it, but it will be done before the end of the session."

Entergy Offers Assistance To Japanese Nuclear Industry. [The Mississippi Business Journal](#)

(3/15) reports, "Entergy Corporation reports its nuclear employees are closely monitoring the situation in Japan in coordination with the US Nuclear Regulatory Commission, the Nuclear Energy Institute (NEI), the Institute of Nuclear Power Operations and industry peers." Notably, Entergy says "it has offered its support and assistance to the Japanese nuclear industry."

Progress Energy Delays Restart Of Crystal River Nuclear Plant. [The Tampa Bay Business Journal](#)

(3/16) reports, "Progress Energy Florida will delay the planned April restart of the Crystal River Nuclear Plant, which has been shut down since September 2009." The company said in a statement that "there's an indication of additional damage at the plant."

[Dow Jones Newswires](#) (3/16, Malik) reports the reactor is encased in a concrete structure, with steel tendons embedded in it. But some portions of the concrete structure may have separated, hence the need for more repairs. The company originally wanted to reopen the plant in April, but it is now uncertain when the repairs will be completed, the Journal adds.

Millstone Plant To Review Emergency Procedures.

In Connecticut, the website of [WFSB-TV](#) New Haven (3/15) reports, "After the recent nuclear emergency in Japan following a devastating earthquake and tsunami, emergency plans at Dominion Power's Millstone Nuclear Power Plant in Waterford are being reviewed." Dominion's Ken Holt said, "(Millstone) is designed to withstand earthquakes, tornadoes and flooding. We have been watching the events in Japan very closely, trying to learn what we can. As lessons are learned, as lessons come out, we will apply them to our own systems and make any improvements we need to make." [WWBT-TV](#) Richmond, VA (3/15, 11:05 p.m. EST), [WTKR-TV](#) Norfolk (3/15, 11:05 p.m. EST), [WVEC-TV](#) Norfolk (3/15, 12:10 p.m. EST) and [WRIC-TV](#) Richmond (3/15, 12:05 p.m. EST) aired segments on the local nuclear plants.

NRC Holding Hearings In Texas. The [Victoria \(TX\) Advocate](#) (3/16) reports the NRC today and tomorrow will conduct "Atomic Safety and Licensing Board Hearing on Exelon's Early Site Permit" in Victoria. "The sessions will be open to the public, but only authorized representatives for the groups taking part in the hearings will be involved in the proceedings."

New Jersey Joining Lawsuit Against New Spent Fuel Rules. The [AP](#) (3/15) reports that New Jersey may join a Federal lawsuit that lets "nuclear plants to keep their used fuel onsite for up to 60 years after the reactor is shut down, up from 30 years." According to the New Jersey Department of Environmental Protection, "the decision is not related to the Japanese earthquake and resulting nuclear emergency." A NJDEP spokesperson, however, said that that Wednesday was the filing date to join the lawsuit and the state had been studying whether to join the lawsuit "long before the crises." Bob Martin, NJDEP commissioner, "said the state is concerned about the potential impact of the waste storage on New Jersey's environment."

[Bloomberg](#) (3/16, Schoenberg) adds that New Jersey joined the suit because it believed NRC "failed to consider health and safety risks" of the extension. New Jersey, and the other suitors – New York, Vermont, and Connecticut – "claim the government didn't produce an environmental impact statement before changing the standard." In an email,

Martin contended, "The federal government has an obligation to develop a permanent plan for nuclear waste storage, and cannot avoid an answer by extending the time that radioactive waste is allowed to remain on sites in New Jersey and across the nation." A DOJ spokeswoman, Nana Efua Embil, didn't return a call for comment.

[Dow Jones Newswire](#) (3/16, Malik) quotes NJDEP spokesman Lawrence Ragonse, who says that the 60-year storage limit is "too long." David McIntyre, a NRC spokesman, countered that the agency's "waste confidence rule" is misunderstood and that it disallows permitted storage of waste.

NRC Safety Exemption For Indian Point Upheld By Federal Judge.

The [AP](#) (3/16) reports that US District Judge Loretta Preska upheld a NRC exemption that allowed Indian Point's operator, Entergy, to use materials that protect critical electrical wires with a range of only 27 to 48 minutes. The industry standard is one hour. Preska ruled that NRC did not come to exemption arbitrarily. One plaintiff, former New York Assemblyman Richard Brodsky, said the ruling illustrates continued a failure by courts to scrutinize the NRC.

Energy Northwest Set To Shut Down Columbia Station For Refueling, Maintenance.

The [Tri-City \(WA\) Herald](#) (3/15, Cary) reported "Energy Northwest is planning the longest refueling outage in the history of its nuclear power plant starting April 6," which means "temporary work for about 600" local workers and "more than 1,000 workers who will be coming to the Tri-Cities for short-term jobs." The "outage workers don't spend as much as leisure travelers, but the [Tri-Cities Visitor and Convention Center] estimates that they still will spend \$8.5 million to \$11 million here, including money on lodging, meals and gas." Most workers who are not from the area will likely lodge in hotels or R.V. parks. "For the past decade, Energy Northwest has shut down the Columbia Generating Station every other year to add fresh fuel, do maintenance and make improvements that are difficult or impossible when the plant is generating nuclear power."

Columbia Operators Confident Plant Is Prepared For Disaster Like What Happened In Japan.

The [AP](#) (3/16) reports briefly that an Energy Northwest spokesman said Columbia Generating Station "operators are confident the Hanford plant is prepared for a disaster. Spokesman Mike Paoli told KVEW it has multiple backup systems to cool the core during a power failure. He says the plant was built to withstand a magnitude 6.9 quake within 12 miles."

Traversing Iowa, Barbour Discusses Nuclear Power.

The [Quad-City Times](#) (3/16, Tibbetts, 53K) reports

that during a speech in Davenport last night, Barbour said "that there's a lot to learn from what's happening to Japan's nuclear plants in the wake of the earthquake and tsunami there, but the US still needs to boost its reliance on nuclear power." The Governor also "accused the Obama administration of ignoring the need to boost domestic energy production," and "said the White House is hurting the economy by boosting government spending and crowding out private investment."

[Politico](#) (3/16, Hunt, 25K) notes Barbour's comments on nuclear power, then adds that in his Davenport speech, Barbour "said Republicans have to win the presidency in 2012 because America is worse off now than it was during Watergate and at the height of the Vietnam War. 'Until about two years ago, there was an expression, a statement that I had never heard made,' Barbour said. 'However every day, every week for the last year and half I've heard, 'I'm concerned my children and grandchildren are not going to inherit the same country that I inherited.' I never heard that in the depths of Watergate, at the height of Vietnam, in Ronald Reagan's administration, Bill Clinton's administration.'"

Obama Stresses Importance Of Nuclear Research Labs. On its website, [KOAT-TV](#) Albuquerque (3/16) reports, "In an exclusive one-on-one interview, President Barack Obama told Action 7 News that the country needs to ensure the safety of nuclear facilities, including Sandia National Laboratories and the Los Alamos National Laboratory." Obama added that "the focus in America is on our plants and the labs that conduct vital nuclear research after the nuclear events in Japan over the last week." Said Obama, "One of the things that 'it' reminds us of is that the safety and the constant monitoring and oversight that we're providing to our nuclear facilities here in the United States has to be maintained."

Oak Ridge Emergency Response Team Prepared To Help. Tennessee's [Oak Ridger](#) (3/16, Huotari) reports that the Radiation Emergency Assistance Center/Training Site, or REAC/TS, a team of 13 full-time staff managed for DOE by Oak Ridge Associated Universities, "trained to respond to radiation emergencies is ready to travel overseas within six hours if Japanese officials ask for help as they struggle to control nuclear power plants damaged by Friday's devastating earthquake and tsunami." REAC/TS director Albert Wiley said that "if deployed, the REAC/TS staff would be sent overseas by the National Nuclear Security Administration...primarily in response to requests from the Japanese government." The team "could include a physician, health physicists, and nurse paramedic armed with radiation detector equipment and emergency medical supplies, including DTPA, which is used to treat people who are

internally contaminated with actinides such as plutonium, and Prussian blue, used to treat cesium isotope contamination."

White House Intellectual Property Official Calls For Tougher Penalties. [Politico](#) (3/16, Martinez, 25K) reports Victoria Espinel, "the White House's top intellectual property official," wants "stiffer prison sentences for those found guilty of crimes such as selling counterfeit goods for military or law enforcement use, and she also wants illegal streaming of online content to be made a felony level crime when appropriate." The recommendations "were among a set of 20 suggestions" Espinel "made to Congress on Tuesday." Espinel "called on lawmakers to pass legislation requiring tougher sentences for organized crime groups and gangs that deal in counterfeit goods or commit other IP crimes, as well as for repeat offenders."

IN THE BLOGS:

TSA Cites "Calculation Error" In Body Scanner Radiation Tests. [Wired](#) (3/15, Kravets, 743K) reports the TSA "is re-analyzing the radiation levels of X-ray body scanners installed in airports nationwide, after testing produced dramatically higher-than-expected results." The agency said Tuesday that the machines "machines meet all safety standards and would remain in operation despite a 'calculation error' in safety studies. The flawed results showed radiation levels 10 times higher than expected."

INTERNATIONAL NUCLEAR NEWS:

Fire At Japanese Reactor Adds To Fears Of Nuclear Catastrophe. The nuclear crisis in Japan continued to receive saturation coverage on US media outlets last night and this morning, with 31 minutes and 40 seconds of combined airtime on the network newscasts and front-page stories in major dailies. Major news outlets focused on the risk of a major nuclear disaster in Japan, while downplaying fears of the ensuing radiation reaching the US West coast.

"Japan's nuclear crisis verged toward catastrophe," says the [New York Times](#) (3/15, A1, Tabuchi, Sanger, Bradsher, 1.01M) on its front page, "after an explosion damaged the vessel containing the nuclear core at one reactor and a fire at another spewed large amounts of radioactive material into the air, according to statements from Japanese government and industry officials." The [AP](#) (3/16, Talmadge, Yuasa), meanwhile, reports that "a fire broke out at a nuclear reactor again Wednesday, a day after the power plant emitted a burst of radiation that panicked an already

edgy Japan and left the government struggling to contain a spiraling crisis."

The [Los Angeles Times](#) (3/16, Williams, 681K) notes that "authorities" also said that "about 70% of another reactor's fuel rods had been damaged by the spate of accidents and breakdowns since Friday's earthquake and tsunami." This "ominous disclosure...compounded a sense of escalating hazards and fear."

"Japan's nuclear emergency grew more dire" Tuesday, reports the [Washington Post](#) (3/15, Mufson, Harlan, 605K). [ABC World News](#) (3/15, story 2, 1:50, Raddatz, 8.2M) asked, "How bad could it get? The big fear is nuclear meltdown. Meaning the reactor core gets so hot, it turns into a radioactive molten mass, breaks through the containment vessel, spewing radioactivity through the air, ground and water." Joe Cirincione, a nuclear expert, told ABC, "This is way past Three Mile Island and we are heading into Chernobyl territory." On the [CBS Evening News](#) (12/6, story 2, 2:45, Couric, 6.1M), however, James Acton of the Nuclear Policy Program said, "I think is important to emphasize is that the possibility of a catastrophic release of radiation equivalent to Chernobyl is still very low."

On [NBC Nightly News](#) (3/15, story 4, 2:20, Williams, 8.37M) reported, Princeton physicist Professor Frank von Hippel said of the situation in Japan, "It could potentially approach a Chernobyl-type situation. I think the releases from the reactors probably won't approach that scale. Chernobyl was all basically blown out in the atmosphere. Here it's basically, I would say, 99% of it is perhaps been absorbed in the water, in the basements of these reactors."

[ABC World News](#) (3/15, lead story, 4:15, Muir, 8.2M) reported that "for the first time, 750 workers at the Fukushima plant were told to leave to seek safe shelter. Only about 50 now remain. They are the last line of defense, willing to stay and continue what so far has been a difficult mission. ... Nuclear experts tell us those workers are likely wearing full body suits with air packs rotating in and out, resting in some sort of armored control room or safe room. Bravery beyond measure." [ABC World News](#) (3/15, story 4, 3:35, Sawyer, 8.2M) also reported, "We now have 3,500 confirmed dead...in the disaster area in Japan. And at least 7,400 reported still missing. That undoubtedly will rise."

[NBC Nightly News](#) (3/15, lead story, 3:25, Bazell, 8.37M) said that "the nuclear danger here remains ominous," though "Japan's Prime Minister Naoto Kan urged calm and said there was no evidence the amount of radiation released so far threatened anyone outside the evacuation zone. The one bit of encouraging news from the government, the radiation levels have been dropping in recent hours." The [Wall Street Journal](#) (3/16, Hayashi, Morse, 2.09M), [USA Today](#) (3/16, Vergano, 1.83M) and [Financial Times](#) (3/16,

Soble, Nakamoto, 448K) run similar pieces on the latest developments.

[Bloomberg News](#) (3/16, Srivastava, Narayan) reports that S.K. Malhotra, a scientist at India's Department of Atomic Energy in Mumbai, said that "averting a full-scale meltdown -- which scientists say isn't likely -- depends on cooling the uranium-containing rods at Fukushima Dai-Ichi's Reactor No. 2," and that "a worst-case outcome may occur if overheating in the reactor culminates in the rupture of the steel lining protecting radioactive material."

[USA Today](#) (3/16, Macleod, 1.83M) reports from Ishinomaki, "In the beleaguered town, where almost 40,000 evacuees take refuge, food is scarce, just one rice ball a day, but not the social discipline and courtesies of regular Japanese life. City Hall has transformed into a processing zone for survivors, who pore quietly, and often sadly, over regular registration updates from the 106 separate emergency shelters citywide."

The [Washington Post](#) (3/16, Harlan, 605K) reports from Tokyo, "With Japan in the throes of a three-pronged disaster, foreigners began fleeing the country in larger numbers Tuesday, as millions of people endured another frigid night with little food, water or heat." China "announced it was organizing an evacuation of its citizens from northeastern Japan," while the US "urged Americans to avoid travel to Japan, Austria moved its embassy from Tokyo to Osaka, and Lufthansa diverted its two daily Tokyo-bound flights to other Japanese cities." The [Washington Times](#) (3/16, Johnson, 77K) also remarks on the "quiet exodus from Tokyo" that "began on Tuesday after another explosion and a fire at a nuclear-power plant in Fukushima sent radiation levels above normal in the capital and in other prefectures in the north and east of Japan."

ISIS Says Fukushima Plant Emergency Has Risen To Level 6 Event. [Kyodo News](#) (3/16) says the situation at "the quake-hit Fukushima No. 1 nuclear plant in northeastern Japan 'has worsened considerably,' the Institute for Science and International Security said in a statement released Tuesday." After "fresh explosions" and a fire in a spent fuel pool storing spent nuclear fuel rods, ISIS said, "This accident can no longer be viewed as a level 4 on the International Nuclear and Radiological Events scale that ranks events from 1 to 7." It said "the ongoing crisis is 'now closer to a level 6, and it may unfortunately reach a level 7' -- a worst case scenario with extensive health and environmental consequences."

Warnings About Reactor Design Reportedly Ignored. The [New York Times](#) (3/16, Zeller, 1.01M) reports, "The warnings were stark and issued repeatedly as far back as 1972: If the cooling systems ever failed at a 'Mark 1' nuclear reactor, the primary containment vessel surrounding the reactor would probably burst as the fuel rods inside

overheated. ... Now, with one Mark 1 containment vessel damaged at the embattled Fukushima Daiichi nuclear plant and other vessels there under severe strain, the weaknesses of the design -- developed in the 1960s by General Electric -- could be contributing to the unfolding catastrophe."

More Soldiers Exposed To Radiation As US Military Steps Up Relief Efforts. The [CBS Evening News](#) (12/6, story 3, 1:20, Couric, 6.1M) reported that in Japan, "rescue and relief workers have no choice but to work outside in the elements," and "more members of the US Navy were exposed to radiation while delivering supplies." CBS (Martin) added, "What started as a humanitarian relief operation has become hazardous duty for the US military."

The [AP](#) (3/16) also reports that "more US military crews were exposed to radiation Tuesday as the Pentagon ramped up relief flights over a Japan reeling from an earthquake, tsunami and nuclear crisis." DOD "said the Navy started giving anti-radiation pills to some of those exposed, and Americans on two military bases south of Tokyo were advised to stay indoors as much as possible." The [Wall Street Journal](#) (3/16, Hodge, 2.09M) also reports the story under the headline "US Military Steps Up Quake Relief Efforts."

[NBC Nightly News](#) (3/15, story 7, 1:55, Williams, 8.37M) reported, "US plans for a massive relief operation have...been overshadowed by Japan's escalating nuclear crisis." Marine Corps Lt. Col. Michael Coletta was shown saying, "I know they're looking at several different options. Something a little bit closer but not too close to obviously what's going on with the reactor plants."

DOE Sends Team, Equipment To Assist With Response. In its coverage of the threat of radiation exposure to members of the US military and other relief workers, the [AP](#) (3/15) reports that Secretary Chu said the DOE "has assembled a team of 34 people and sent 7,200 pounds of equipment to Japan to help monitor and assess the situation with the nuclear reactors."

In its "E2 Wire" blog, [The Hill](#) (3/16, Geman, 21K) reports that Chu told the House panel that "officials sent to Japan include a nuclear engineer who speaks Japanese and an emergency response representative deployed as part of the US Agency for International Development Disaster Assistance Response Team." Chu said, "We are positioning Consequence Management Response Teams at US consulates and military installations in Japan. These teams have the skills, expertise and equipment to help assess, survey, monitor and sample areas. They include smaller groups that could be sent out to gather technical information in the area," adding, "We have sent our Aerial Measuring System capability, including detectors and analytical equipment used to provide assessments of contamination on the ground."

[Reuters](#) (3/16, Doggett) reports that during his testimony Tuesday, Chu said that the equipment was scheduled to arrive in two hours.

Competitive Enterprise Institute VP Critical Of Chu's Response. Iain Murray, a Vice President at the Competitive Enterprise Institute, writes in an opinion piece appearing on the [FOX News](#) (3/16) website, says that the unfolding crisis in Japan "should be a time for the country's most important physicist, Energy Secretary Steven Chu, to step up to the plate and explain to Americans why he is not worried. Instead, the Secretary is missing in action." After citing Chu's academic credentials and his Nobel honor, Murray adds that "Secretary Chu has shown no willingness to tackle public fears regarding the crisis in Japan, beyond a few words of boilerplate at a House hearing on the Energy Department budget on Tuesday morning."

Damage To Japan From Recent Disasters "Close To \$200 Billion." The [CBS Evening News](#) (12/6, story 4, 2:45, Couric, 6.1M) reported, "Offers of aid have been pouring into Japan from around the world. One hundred and sixteen governments and organizations have pledged their support with more than \$59 million in overall donations." However, "some estimates of the damage in Japan are close to \$200 billion."

Crisis In Japan Threatens Global Economy. The [CBS Evening News](#) (12/6, story 6, 0:25, Couric, 6.1M) reported, "The economic fallout from this crisis continues. In the past two days, Japanese stocks have lost 16% of their value and on Wall Street today the Dow fell nearly 300 points before recovering most of that, ending with a loss of 137 points or just over 1%. Oil also fell sharply, down \$4 to close at about \$97 a barrel." [NBC Nightly News](#) (3/15, story 9, 0:30, Williams, 8.37M) also reported that in Japan, "the nuclear fears spread to the trading floor. At one point the market was down a staggering 14% of all its value, closed down 10% in the end. It's down 16% in just two open trading days."

[Fox News' Special Report](#) (3/15, Baier) noted that Japan "has been the second largest lender to the US. Now it will be spending more money at home and presumably lending less. So credit markets could tighten, and the US may face higher interest rates on its insatiable appetite for borrowed money."

The [AP](#) (3/16, Kinetz) reports, "Japan's earthquake and nuclear crisis have put pressure on the already fragile global economy, squeezed supplies of goods from computer chips to auto parts and raised fears of higher interest rates." However, adds the AP, "the damage to the US and world economies is expected to be relatively moderate and short-lived. Oil prices are falling, helping drivers around the world. And the reconstruction expected along Japan's northeastern coast could even provide a jolt of economic growth."

[McClatchy](#) (3/16, Hall), meanwhile, reports that "most experts think Japan's production problems will be short-lived, but not without economic dislocations felt around the globe." Chief US Chamber of Commerce economist Martin Regalia said, "Natural disasters tend to cause short-term displacements that tend to reverse." The [Wall Street Journal](#) (3/16, Barta, Takahashi, Davis, 2.09M) runs a similar story under the headline "Japan Adds To Global Economy Woes."

The [Los Angeles Times](#) (3/16, Petruno, Popper, 681K) reports that "amid the turmoil in global financial markets, hiding out at home has been a decent strategy for US investors." In fact, "in recent days, while most major stock markets around the world have been battered in the aftermath of Japan's devastating earthquake and tsunami, US stocks have held up surprisingly well." [AFP](#) (3/16) says that "panic selling hit the US stock market Tuesday as traders worried that a nuclear meltdown in quake-hit Japan could threaten the global economy," but the [AP](#) (3/16) that the Dow "recovered somewhat later in the day," though it "still closed down 138 points, or more than 1 percent."

The [New York Times](#) (3/16, Bowley, 1.01M) runs a similar story under the headline "World Markets Dive As Investors Retreat To Safety." The [Financial Times](#) (3/16, Milne, Blas, 448K) also reports the story.

Germany Shuts Down Seven Plants; Switzerland, Austria To Reassess Security. The [Washington Post](#) (3/16, Richburg, 605K) reports that "the crisis in Japan has revived anti-nuclear passions around the world, putting governments on the defensive and undermining the nuclear power industry's recent renaissance as the clean energy of the future." The Post adds that "in the most dramatic move, German Chancellor Angela Merkel announced Tuesday that all seven of the country's nuclear power plants built before 1980 would be shut down, at least for now, as safety checks are conducted." Switzerland, "with five reactors, announced Monday that it would freeze plans to build or replace nuclear power plants, and Austria called for new stress tests on plants across Europe."

The [New York Times](#) (3/16, Dempsey, 1.01M) notes that Germany's move "came as European energy ministers in Brussels considered the introduction of stress tests in order to see how the bloc's 143 nuclear plants would react in emergencies. Construction procedures too might be reassessed, according to Olivier Bailly, a spokesman for the European Union Commission."

More Commentary. Harold Meyerson, in his column for the [Washington Post](#) (3/16, 605K), writes, "What the systemic failures...in Japan should teach us is that the need for active, disinterested governmental regulation is rooted not in any radical impulse, as the American right continually contends, but in a sober, conservative assessment of the

human capacity for mistake and self-delusion, not to mention avarice and chicanery."

Holman Jenkins, in his column for the [Wall Street Journal](#) (3/16, 2.09M), makes the case that the media has been overly fixated on the potential of a nuclear disaster in Japan, and, consequently, has failed to emphasize that the overwhelming majority of the loss of life so far is attributable to immediate damage from the quake and tsunami.

NNSA Deploys Team To Track Radiation Risk To US.

The [National Journal](#) (3/16, Brownstein, 12K) reports that the National Nuclear Security Administration "has deployed a team of stateside supercomputer experts to gauge the radiation risks posed by the nuclear crisis in Japan." The NNSA, "which is regarded as the chief responder to any radiological incident within the United States," said Monday that "they have activated the National Atmospheric Release Advisory Center -- staffed by computer scientists, nuclear scientists and meteorologists -- to provide US authorities with real-time estimates on the spread of radioactive materials in the atmosphere." Stanley C. Ahalt director of the Renaissance Computing Institute said, "NNSA has probably the world's premier set of codes that are capable of doing advanced simulations on all things nuclear."

Japanese MOX Fuel Poses Extra Risk.

The [Augusta \(GA\) Chronicle](#) (3/16, Pavey) reports, "Scientists warned this week of yet another wrinkle to Japan's evolving nuclear crisis: one of the doomed reactors is loaded with mixed-oxide fuel that contains plutonium." Arjun Makhijani, a nuclear scientist and president of the Institute for Energy and Environmental Research, explained, "This sort of plutonium fuel is more difficult to control than uranium fuel." The article explains that the fuel in question was made by AREVA, which is "also part of Shaw AREVA MOX Services--the group building the National Nuclear Security Administration's \$4.86 billion MOX plant at Savannah River Site." However, "the facility at Savannah River Site is designed to use weapons grade plutonium from dismantled nuclear warheads to make fuels usable in commercial nuclear power reactors," compared with a mix of uranium and plutonium reprocessed from spent uranium used by Japanese reactors.

Japan Disaster Likely To Thwart Efforts To Build New UK Nuclear Plants.

Selina Williams writes at the [Wall Street Journal](#) (3/16, 2.09M) "The Source" blog that nuclear energy companies in the UK have been silent in the wake of the Japan disaster, and the lingering impressions from the accident have yet to be seen. However, Williams notes that public sentiment is likely to blunt recent attitudes of openness to the construction of new nuclear plants in Great Britain. Williams suggests that political efforts

to garner support for more nuclear power in the UK are likely to be stymied.

Many Chinese Nuclear Plants In Seismic Hot Zones.

The [Wall Street Journal](#) (3/16, A15, Areddy, Spegele, 2.09M) reports seismic activity in China, coupled with that nation's reputation for safety issues and government obfuscation raise concerns about nuclear power there. Officials in China have vowed to learn from Japan's misfortune and defend the local nuclear power industry as being inherently safer, but the 25 plants in construction and 13 in operation there raise concerns.

EU To Conduct "Stress Tests" On Nuclear Plants.

The [Wall Street Journal](#) (3/16, A15, Torello, Norman, 2.09M) reports that the Japanese crisis has prompted EU nuclear safety officials to promise extensive testing on European nuclear plants in the near future. The piece quotes EU energy chief Guenther Oettinger, "There is general agreement...on the carrying out of common stress tests on the basis of common, strict standards."

Germany Shuts Down All Plants Built Before 1980 For Safety Tests.

[Bloomberg News](#) (3/16, Czuczka, Comfort) reports that according to Chancellor Angela Merkel, "Germany will halt nuclear reactors accounting for 25 percent of its atomic energy capacity as part of a safety review after explosions at reactors in Japan." Bloomberg notes that the seven plants will be kept offline through June. "Germany, which relies on reactors for 23 percent of its power, is the first European country to take such measures after" the Japanese crisis. "German electricity, a European benchmark, rose on the outlook for lower supply while European Union carbon dioxide permits gained as utilities may burn more fossil fuels to meet demand."

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