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**From:** info@ecologicalinternet.org on behalf of Maria Papadopoulou (b)(6)  
**Sent:** Thursday, March 17, 2011 5:55 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Maria Papadopoulou  
Greece

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Silvia de La Prada Las Heras (b)(6)  
(b)(6)  
**Sent:** Thursday, March 17, 2011 5:52 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Silvia de La Prada Las Heras

Spain

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Fabian Brunet (b)(6)  
**Sent:** Thursday, March 17, 2011 5:49 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Fabian Brunet

France

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Yvonne Jansson  
(b)(6)  
**Sent:** Thursday, March 17, 2011 2:58 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

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With grave concern,

Yvonne Jansson  
Sweden

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Gerriet Harms (b)(6)  
**Sent:** Thursday, March 17, 2011 3:55 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Gerriet Harms  
eurobinia  
Germany

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Lyn Serventy (b)(6)  
**Sent:** Thursday, March 17, 2011 7:24 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Lyn Serventy

Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Carol McGeehan  
(b)(6)  
**Sent:** Thursday, March 17, 2011 7:35 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Carol McGeehan  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Barbara Govorcin (b)(6)  
**Sent:** Thursday, March 17, 2011 7:35 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

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With grave concern,

Barbara Govorcin  
Croatia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Rusty Simpson (b)(6)  
**Sent:** Thursday, March 17, 2011 7:38 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Rusty Simpson  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Delia Lorenzo (b)(6)  
**Sent:** Thursday, March 17, 2011 7:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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With grave concern,

Delia Lorenzo

Argentina

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Spencer Selander  
(b)(6)  
**Sent:** Thursday, March 17, 2011 7:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Spencer Selander  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Ann Hall (b)(6)  
**Sent:** Wednesday, March 16, 2011 4:55 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Ann Hall  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Patrizio Tressoldi (b)(6)  
**Sent:** Thursday, March 17, 2011 7:47 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Patrizio Tressoldi

CGIL

Italy

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Gomes Olivier (b)(6)  
**Sent:** Thursday, March 17, 2011 7:57 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Gomes Olivier

France

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Freyens Pierre (b)(6)  
**Sent:** Thursday, March 17, 2011 7:58 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Freyens Pierre

Belgium

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Joanna Karatsaneva  
(b)(6)  
**Sent:** Thursday, March 17, 2011 8:09 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Joanna Karatsaneva  
Bulgaria

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Laurent Pirard (b)(6)  
**Sent:** Thursday, March 17, 2011 8:19 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Laurent Pirard  
Switzerland

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Norma Odell (b)(6)  
**Sent:** Thursday, March 17, 2011 8:23 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Norma Odell  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Vitja Jana Ceredejeva  
(b)(6)  
**Sent:** Thursday, March 17, 2011 8:24 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling

global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Vitja Jana Ceredejeva  
Czech Republic

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

## Stutzke, Martin

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**From:** Stutzke, Martin  
**Sent:** Friday, March 18, 2011 3:55 PM  
**To:** Chokshi, Niles  
**Subject:** FW: MSNBC.Com story

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

**From:** Munson, Clifford  
**Sent:** Friday, March 18, 2011 2:16 PM  
**To:** Stutzke, Martin; Sheehan, Neil; Kammerer, Annie  
**Cc:** Ake, Jon  
**Subject:** RE: MSNBC.Com story

Thanks Marty. I will incorporate your responses into mine and Annie's.

Cliff

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

**From:** Stutzke, Martin  
**Sent:** Friday, March 18, 2011 2:13 PM  
**To:** Sheehan, Neil; Munson, Clifford; Kammerer, Annie  
**Cc:** 'dmwine@verizon.net'; Ake, Jon  
**Subject:** RE: MSNBC.Com story

I'd like to add a few comments as well:

1. Does the SCDF represent a measurement of the risk of radiation RELEASE or only the risk of core damage (not accounting for secondary containment, etc.)?

Marty: SCDF only measures the frequency of core-damage; it is higher than the frequency of radiation release.

2. Did an NRC spokesperson tell MSNBC's Bill Dedman that the weighted risk average was invalid and useless? He contends to us that this is the case. This seems suspicious.

Marty: I didn't say this, and don't know who at the NRC would.

3. If it was "invalid" as he claims, why would the USGS include that metric?

Marty: the simple average, weighted average, and weakest link SCDFs were developed by the NRC, not the USGS. The table in Appendix D of the GI-199 Safety/Risk Assessment provides simple average, weighted average, and weakest link SCDFs computed by the NRC using the 2008 USGS, the 1989 Electric Power Research Institute (EPRI), and the 1994 Lawrence Livermore National Laboratory (LLNL) seismic hazard estimates.

4. Can you explain the weighted average and how it compares to the weakest link average?

Marty: Use Jon Ake's Q&A to answer this.

5. Ultimately would you suggest using one of the models (average, weighted, weakest link) or to combine the information from all three?

Marty: The weakest link model is the most technically defensible model, in my opinion.

6. Were there any other factual inaccuracies or flaws in Mr. Dedman's piece you would like clarify/point out.

Marty: The msnbc.com article emphasizes the change in SCDF from 1989. It does not indicate that the 1989 seismic hazard study was conducted by EPRI (not USGS). The article also ignores the fact that the NRC also made SCDF estimates using the 1994 LLNL seismic hazard study. In fact, relative to the 1994 LLNL seismic hazard estimates, the estimated SCDFs have decreased for 57 of 96 CEUS plants. The fleetwide SCDF averages based on the 1994 LLNL and the 2008 USGS seismic hazard estimates are about the same (2E-5/y, or 1 in 50,000 per year).

7. Mr. Dedman infers that the plant quake risk has grown (between the 1989 and 2008 estimates) to the threshold of danger and may cross it in the next study. Is this the NRC's position?

Marty: There's no technical basis in the GI-199 Safety/Risk Assessment to substantiate the claim that actual seismic risk is increasing. The 1E-4/y (1 in 10,000 per year) is based on the Commission's Safety Goal Policy Statement, and defines "how safe is safe enough." The Commission has deliberately not defined risks metrics for adequate protect, although NRR uses CDF above 1E-3/y (1 in 1,000 per year), which is 10 times higher, as a guideline to question adequate protection.

Marty

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

From: Sheehan, Neil  
Sent: Friday, March 18, 2011 1:45 PM  
To: Munson, Clifford; Kammerer, Annie  
Cc: (b)(6) Ake, Jon; Stutzke, Martin  
Subject: RE: MSNBC.Com story

Great. Thanks

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

From: Munson, Clifford  
Sent: Friday, March 18, 2011 1:44 PM  
To: Sheehan, Neil; Kammerer, Annie  
Cc: (b)(6) Ake, Jon; Stutzke, Martin  
Subject: RE: MSNBC.Com story

Neil,

I will start working on this and turn it over to Annie when she comes in later.

Cliff  
Clifford Munson, Ph.D.  
Senior Level Advisor  
U.S. NRC - Office of New Reactors  
Division of Site and Environmental Reviews  
301-415-6947  
clifford.munson@nrc.gov

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

From: Sheehan, Neil

Sent: Friday, March 18, 2011 1:32 PM

To: Kammerer, Annie

Cc: (b)(6) Ake, Jon; Munson, Clifford; Stutzke, Martin

Subject: FW: MSNBC.Com story

Annie,

Here's another batch of seismic-related questions. Can your group help with these? This guy wants to respond to the MSNBC.Com article. Actually, he has actually posted one piece:

<http://www.dailytech.com/EDITORIAL+MSNBCcom+Report+on+US+Nuclear+Risks+Features+Many+Flaws/article21150.htm> .

Neil

Public Affairs

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

From: jason.mick@dailytech.com [mailto:jason.mick@dailytech.com]

Sent: Friday, March 18, 2011 1:04 PM

To: Sheehan, Neil

Subject: RE: MSNBC.Com story

1. Does the SCDF represent a measurement of the risk of radiation RELEASE or only the risk of core damage (not accounting for secondary containment, etc.)?
2. Did an NRC spokesperson tell MSNBC's Bill Dedman that the weighted risk average was invalid and useless? He contends to us that this is the case. This seems suspicious.
3. If it was "invalid" as he claims, why would the USGS include that metric?
4. Can you explain the weighted average and how it compares to the weakest link average?
5. Ultimately would you suggest using one of the models (average, weighted, weakest link) or to combine the information from all three?
6. Were there any other factual inaccuracies or flaws in Mr. Dedman's piece you would like clarify/point out.
7. Mr. Dedman infers that the plant quake risk has grown (between the 1989 and 2008 estimates) to the threshold of danger and may cross it in the next study. Is this the NRC's position?

My piece, one more time:

"EDITORIAL: MSNBC.com Report on U.S. "Nuclear Risks" Features Many Flaws"

<http://www.dailytech.com/EDITORIAL+MSNBCcom+Report+on+US+Nuclear+Risks+Features+Many+Flaws/article21150.htm>

Thank you in advance!!!!

Cheers,  
Jason

On Fri, 18 Mar 2011 12:56:56 -0400, "Sheehan, Neil" <Neil.Sheehan@nrc.gov>  
wrote:

> Can you do me a favor and send me those separately?

>

>

>

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

> From: jason.mick@dailytech.com [mailto:jason.mick@dailytech.com]

> Sent: Friday, March 18, 2011 12:46 PM

> To: Sheehan, Neil

> Subject: RE: MSNBC.Com story

>

> Hi Neil,

> Thank you for the info! It's greatly appreciated.

>

> Can you possibly send me answers to my other questions by tomorrow? I'm

> trying to run a followup and I really need that info to get the accurate

> facts out there.

>

> Thank you!!!!

>

> Cheers,

> Jason

>

>

> On Fri, 18 Mar 2011 11:57:06 -0400, "Sheehan, Neil"

<Neil.Sheehan@nrc.gov>

> wrote:

>> Jason,

>>

>> Here are some questions we responded to yesterday. They may answer your

>> questions:

>>

>> Q.) Overall, how would the NRC characterize this? A quirk of numbers? A

>> serious concern?

>>

>> The study is still under way and it is too early to predict the final

>> outcome. However, the NRC staff has determined there is no immediate

> safety

>> concern and that overall seismic risk estimates remain small. If at any

>> time the NRC determines that an immediate safety concern exists, action

> to

>> address the issue will be taken. The NRC is focused on assuring safety

>> during even very rare and extreme events. Therefore, the agency has

>> determined that assessment of updated seismic hazards and plant

> performance

>> should continue.

>>

>> Q.) Could someone describe the study and what it factored in – plant

>> design, soils, previous quakes, etc.?  
>>  
>> The study considers the factors that impact estimates of both the seismic hazard (i.e., ground-shaking levels) at the site and the plants' resistance to earthquakes (mathematically represented by the plant level fragility curve). Previous quakes, the tectonic environment and the soils that underlie the site are all used in the development of the ground-shaking estimates used in the analyses. Plant design and the resistance of the important structures, systems and components are all used in the development of plant-level fragility curves.

>>  
>> Q.) Can someone explain "seismic curve" and "plant level fragility curve?" (Assuming they're important)

>>  
>> A seismic curve is a graphical representation of seismic hazard. Seismic hazard in this context is the highest level of ground motion expected to occur (on average) at a site over different periods of time. Plant-level fragility is the probability of damage to plant structures, systems and components as a function of ground-shaking levels.

>>  
>> Q.) Can someone explain the "weakest link model?" (Assuming it's important)

>>  
>> The weakest link model is a method for evaluating the importance of different frequencies of ground vibration to the overall plant performance. The model and its details are not integral to understanding the fundamental conclusions of the study.

>>  
>> Q.) What would constitute fragility at a plant?

>>  
>> Fragility is a term that relates the probability of failure of an individual structure, system or component to the level of seismic shaking it experiences. Plant-level fragility is the probability of damage to sets of plant structures, systems and components as a function of ground-shaking levels.

>>  
>> Neil Sheehan  
>> NRC Public Affairs  
>> (301) 816-5107

>>  
>>  
>>  
>> -----Original Message-----  
>> From: jason.mick@dailytech.com [mailto:jason.mick@dailytech.com]  
>> Sent: Friday, March 18, 2011 11:32 AM  
>> To: Sheehan, Neil  
>> Subject: re: MSNBC.Com story

>>  
>> Hi Neil,  
>>  
>> Thank you for the response!! In my piece, I believe I capture this  
>> distinction accurately, as I write that the study was performed by the  
> U.S.  
>> Geological Survey (USGS) on behalf of the NRC.  
>>  
>> I wrote a critique on MSNBC piece because it was very  
> sensational/alarmist  
>> in tone and goes into a lengthy discussion of who's most "at risk" and  
> only  
>> at the end do they mention the risk was within the acceptable levels.  
By  
>> contrast my story puts that right up front and also points out some  
other  
>> potential flaws of the MSNBC piece.  
>>  
>>  
>  
<http://www.dailytech.com/EDITORIAL+MSNBCcom+Report+on+US+Nuclear+Risks+Features+Many+Flaws/article21150.htm>  
>>  
>> To that end, I do have some specific questions on the study. If you  
> cannot  
>> answer them, please forward them to an appropriate colleague at the USGS  
>> who would be knowledgeable wrt the study. Please see question #3 as it  
>> applies more directly to your team.  
>>  
>> These questions were:  
>>  
>> 1. The report clearly seems to state clearly that seismic core damage  
>> frequency (SCDF) does not correspond directly to release of radiation  
and  
>> that they did not have enough info to make a proper assessment of public  
>> dosage risk or large early release frequency.  
>>  
>> In the MSNBC report they state that the estimate (SCDF) was an  
assessment  
>> of the risk of the public being exposed to radiation. This seems to be  
> in  
>> direct contradiction with what the report says (that they cannot assess  
> the  
>> risk of public exposure and that the SCDF is the risk of core damage,  
not  
>> public exposure).  
>>  
>> 2. In the report their were several risk estimates, based on the  
various  
>> ground vibration frequency scenarios -- 1 Hz... 10 Hz. One estimate  
> takes  
>> the max of these (the "Weakest Link" model). Can I get some  
> clarification  
>> on what exactly the differences between these models are (outside of the  
>> direct calculation methods mentioned in the paper), and whether one is  
> more

>> correct than the others?  
>>  
>> 3. In our email dialogue following my piece, Mr. Dedman (the MSNBC  
>> reporter) told me that the NRC told him specifically to use the weakest  
>> link figure. He also said he was told by the NRC that the weighted  
> figure  
>> (another model) was useless and invalid.  
>>  
>> I just got off the phone with a colleague of yours and it sounded like  
> this  
>> claim was doubtful. But I wanted to verify it.  
>>  
>> Can you speak with the PR team member who talked with Mr. Dedman and  
> check  
>> whether the NRC told him this.  
>>  
>> I just had a terrific discussion with one of your team members and he  
>> explained the frustrations about Mr. Dedman's story. When I mentioned  
> that  
>> I felt there was factual inaccuracies he told me, that "There were  
> numerous  
>> inaccuracies in that story."  
>>  
>> And he said, "We don't rank plants like that and its inappropriate to do  
> so  
>> on a basis like that."  
>>  
>> The feeling I got was that the NRC did not at all intend MSNBC/Dedman to  
>> sensationalize and exploit the story in the way he did. If you have any  
>> comments you would like to add to the above ones, I'd appreciate it.  
>>  
>> And I hate to say it, but I missed your colleagues name, so I was  
> wondering  
>> whether you can check on that for me, so I can properly attribute it.  
He  
>> said he's in the office with you, so it shouldn't be hard to find (he's  
> on  
>> the same number as you!).  
>>  
>> I think your team and I both share a desire to get the CORRECT story out  
>> here. From my perspective the correct story is that this risk  
assessment  
>> was done and the critical conclusion was that it showed we're still  
>> relatively safe. In light of the Senate demands for reevaluation, etc.,  
> I  
>> think this is of the UTMOST importance to share the proper story with  
our  
>> readers.  
>>  
>> Both for that reason and from a personal perspective, I really  
appreciate  
>> your help and thank you for your reply!!  
>>  
>> Sincerely,  
>> Jason  
>> -----

>> Jason R. Mick  
>> Senior News Editor  
>> DailyTech LLC  
>> <http://www.dailytech.com/>  
>> Email: [jason.mick@dailytech.com](mailto:jason.mick@dailytech.com)  
>> Cell: (b)(6)  
>> AIM: jasonatdailytech  
>>  
>> On Fri, 18 Mar 2011 09:48:05 -0400, "Sheehan, Neil"  
> <[Neil.Sheehan@nrc.gov](mailto:Neil.Sheehan@nrc.gov)>  
>> wrote:  
>>> Jason,  
>>>  
>>> The MSNBC story  
>>> ([http://www.msnbc.msn.com/id/42103936/ns/world\\_news-asiapacific/](http://www.msnbc.msn.com/id/42103936/ns/world_news-asiapacific/)) has  
to  
>> do  
>>> with a seismic risk ranking it created. It is not the result of an NRC  
>>> review. The NRC does not rank plants by seismic risk.  
>>>  
>>> The objective of the NRC study was to perform a conservative,  
>>> screening-level assessment of earthquake risk. The NRC results to date  
>>> should not be interpreted as definitive estimates of seismic risk. The  
>>> nature of the information used to make these estimates is useful only  
as  
>> a  
>>> screening tool.  
>>>  
>>> Currently operating nuclear power plants in the U.S. remain safe, with  
> no  
>>> need for immediate action. This determination is based on NRC staff  
>> reviews  
>>> of updated seismic hazard information and the conclusions of the  
>> screening  
>>> panel. Existing plans were designed with considerable margin to be able  
>> to  
>>> withstand the ground motions from the largest earthquake expected in  
the  
>>> area around the plant.  
>>>  
>>> Neil Sheehan  
>>> NRC Public Affairs  
>>> (301) 816-5107  
>>>  
>>>  
>>>  
>>>  
>>> From: Royer, Deanna  
>>> Sent: Friday, March 18, 2011 8:46 AM  
>>> To: Couret, Ivonne  
>>> Subject: Media - Question  
>>>  
>>> Jason Mick  
>>> Daily Tech  
>>> [jason.mick@dailytech.com](mailto:jason.mick@dailytech.com)<<mailto:jason.mick@dailytech.com>>

>> (b)(6)

>>> Re: Risk of plants study referred to by MSNBC

>>>

>>> Deanna Royer

>>> Contract Secretary

>>> 415-8200

---

**From:** info@ecologicalinternet.org on behalf of Galip Yenen (b)(6)  
**Sent:** Friday, March 18, 2011 7:14 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Galip Yenen

Turkey

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

---

**From:** info@ecologicalinternet.org on behalf of Amy Gustin (b)(6)  
**Sent:** Friday, March 18, 2011 6:54 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

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In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Amy Gustin  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Nathan Kaye (b)(6)  
**Sent:** Friday, March 18, 2011 6:44 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Nathan Kaye

Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Daniel S Senic (b)(6)  
**Sent:** Friday, March 18, 2011 6:43 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Daniel S Senic  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Phil Butler (b)(6)  
**Sent:** Friday, March 18, 2011 6:43 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Phil Butler  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Michael Pattinson (b)(6)  
(b)(6)  
**Sent:** Friday, March 18, 2011 6:33 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Michael Pattinson  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sara Booth (b)(6)  
**Sent:** Friday, March 18, 2011 6:24 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Sara Booth  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Alex Blin (b)(6)  
**Sent:** Friday, March 18, 2011 1:00 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Alex Blin  
Portugal  
(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Erica Gray (b)(6)  
**Sent:** Friday, March 18, 2011 12:47 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Erica Gray  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Marie-Christine Golano <marie-  
(b)(6)>  
**Sent:** Friday, March 18, 2011 12:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Marie-Christine Golano

France

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Marinela Serban (b)(6)  
**Sent:** Friday, March 18, 2011 12:21 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Marinela Serban  
Belgium

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Lindsay Southcombe  
(b)(6)  
**Sent:** Friday, March 18, 2011 12:17 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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With grave concern,

Lindsay Southcombe  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Alan Urbany (b)(6)  
**Sent:** Friday, March 18, 2011 11:33 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Alan Urbany  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Betsey Whitaker Neal  
(b)(6)  
**Sent:** Friday, March 18, 2011 11:28 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Betsy Whitaker Neal  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Amanda Postula (b)(6)  
**Sent:** Friday, March 18, 2011 11:19 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Amanda Postula  
Humanity  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Adam Blumenthal  
**Sent:** (b)(6)  
Friday, March 18, 2011 10:55 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Adam Blumenthal  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Walter Brown (b)(6)  
**Sent:** Friday, March 18, 2011 10:51 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Walter Brown  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Carol Crunkhorn (b)(6)  
**Sent:** Friday, March 18, 2011 10:31 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Carol Crunkhorn

New Zealand

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Marty Howe (b)(6)  
**Sent:** Friday, March 18, 2011 10:22 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Marty Howe  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Pierangelo Piantanida  
(b)(6)  
**Sent:** Friday, March 18, 2011 9:59 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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With grave concern,

Pierangelo Piantanida

Italy

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sosanimali Gruppo Difesa Animali  
(b)(6)  
**Sent:** Friday, March 18, 2011 9:38 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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With grave concern,

Sosanimali Gruppo Difesa Animali  
Italy

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sascha Collen (b)(6)  
**Sent:** Friday, March 18, 2011 9:38 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Sascha Collen  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Stephen Crowley (b)(6)  
**Sent:** Friday, March 18, 2011 9:29 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Stephen Crowley  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Henrik Wilthorne (b)(6)  
**Sent:** Friday, March 18, 2011 9:19 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Henrik Wilthorne  
Sweden

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of David Callaghan (b)(6)  
**Sent:** Friday, March 18, 2011 9:14 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

David Callaghan  
UK Green Party  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Maura Ellyn (b)(6)  
**Sent:** Friday, March 18, 2011 9:13 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Maura Ellyn  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Pamela VourosCallahan  
(b)(6)  
**Sent:** Friday, March 18, 2011 9:06 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Pamela VourosCallahan  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Ellie Gabbay (b)(6)  
**Sent:** Friday, March 18, 2011 8:56 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Ellie Gabbay  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Zeynep Dogukan (b)(6)  
**Sent:** Friday, March 18, 2011 8:31 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

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In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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With grave concern,

Zeynep Dogukan

Turkey

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sandra Arapoudis (b)(6)  
**Sent:** Friday, March 18, 2011 8:05 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Sandra Arapoudis  
Greece

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Raymond I Pastrano  
(b)(6)  
**Sent:** Friday, March 18, 2011 7:55 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Raymond I Pastrano  
eConsultpro  
Philippines

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Francesco Cigarini (b)(6)  
**Sent:** Friday, March 18, 2011 7:32 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Francesco Cigarini

Italy

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Adam Mlyniuk (b)(6)  
**Sent:** Friday, March 18, 2011 7:27 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Adam Mlyniuk  
Poland

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Susana Francisco (b)(6)  
**Sent:** Friday, March 18, 2011 12:59 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Susana Francisco  
Portugal

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Nils Björkelo (b)(6)  
**Sent:** Friday, March 18, 2011 4:54 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Nils Bjørkelo
Norway
(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** Bloom, Steven  
**Sent:** Thursday, April 21, 2011 4:09 PM  
**To:** ET02 Hoc  
**Subject:** FW: OUO-Travel to Japan

fyi

**From:** Holahan, Patricia  
**Sent:** Thursday, April 21, 2011 4:05 PM  
**To:** Leeds, Eric; Ruland, William; Givvines, Mary; Tracy, Glenn; Hudson, Jody; Satorius, Mark; Pederson, Cynthia; McCree, Victor; Abrams, Charlotte; Mamish, Nader; Haney, Catherine; Kokajko, Lawrence; Doane, Margaret  
**Cc:** Mitchell, Matthew; Plasse, Richard; Freeman, Scott; Lynch, James; Miller, Mark; Peterson, Hironori; Temps, Robert; Masse, Todd; Stapleton, Bernard; Young, Francis; Bloom, Steven; Schwartzman, Jennifer; Reynolds, Steven; Casto, Chuck; Evans, Michele; Virgilio, Martin; Matheson, Mary; Mitchell, Reggie; Marshall, Jane  
**Subject:** OUO-Travel to Japan

Office directors,

Thank you very much for your nominees to support Japan. I have tried not to impact any one office too much but I think these folks will be a great support for Chuck and Steve in Japan.

Francis (Skip) Young  
Hironori Peterson  
Mark Miller  
Robert Temps  
Richard Plasse  
Scott Freeman  
Jim Lynch  
Matthew Mitchell

Either Steve Bloom or Jen Schwartzman in OIP will be in touch with the travelers. We're planning on them leaving around the 28<sup>th</sup> or 29<sup>th</sup> of April.

Thanks again,

Trish

Patricia K. Holahan  
Director, Division of Security Operations  
Office of Nuclear Security and Incident Response  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

(301) 415-6828 (work)

(b)(6)

(cell)

[patricia.holahan@nrc.gov](mailto:patricia.holahan@nrc.gov)

AAAA/306

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**From:** info@ecologicalinternet.org on behalf of Michael L. Parsons  
(b)(6)  
**Sent:** Friday, March 18, 2011 4:05 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Michael L. Parsons  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Norman Keegel (b)(6)  
**Sent:** Friday, March 18, 2011 4:06 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

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In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

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In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Norman Keegel  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sharon Whitewood  
(b)(6)  
**Sent:** Friday, March 18, 2011 4:11 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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*With grave concern,*

Sharon Whitewood  
Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Julie Woodman (b)(6)  
**Sent:** Friday, March 18, 2011 4:33 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Julie Woodman  
Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sanja Lalic (b)(6)  
**Sent:** Friday, March 18, 2011 4:36 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Sanja Lalic

Croatia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Anu Raatikainen (b)(6)  
**Sent:** Thursday, March 17, 2011 1:49 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Anu Raatikainen  
Finland

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Kirk Lumpkin (b)(6)  
**Sent:** Friday, March 18, 2011 5:09 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Kirk Lumpkin  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Cristina (b)(6)  
**Sent:** Friday, March 18, 2011 5:30 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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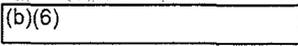
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With grave concern,

Cristina  
Spain  
 (b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Massimo Pappalardo  
(b)(6)  
**Sent:** Friday, March 18, 2011 5:56 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Massimo Pappalardo

Italy

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Amanda Scuder (b)(6)  
**Sent:** Friday, March 18, 2011 6:05 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Amanda Scuder  
United States  
(b)(6)

cc:  
President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Rebecca Hilder (b)(6)  
**Sent:** Friday, March 18, 2011 6:07 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

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With grave concern,

Rebecca Hilder

Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Val Stagg (b)(6)  
**Sent:** Friday, March 18, 2011 1:18 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Val Stagg

United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Tatiana Torres (b)(6)  
**Sent:** Friday, March 18, 2011 8:16 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Tatiana Torres

Colombia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Vicki Nosal (b)(6)  
**Sent:** Friday, March 18, 2011 12:55 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Vicki Nosal  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Thomas Knott (b)(6)  
**Sent:** Friday, March 18, 2011 1:19 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Thomas Knott  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Julie Lewis (b)(6)  
**Sent:** Friday, March 18, 2011 1:26 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Julie Lewis  
New Zealand

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Bergmans Sarah (b)(6)  
**Sent:** Friday, March 18, 2011 1:29 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Bergmans Sarah  
Belgium.

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Mahmud Abu-Salim  
(b)(6)  
**Sent:** Friday, March 18, 2011 1:50 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Mahmud Abu-Salim  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Danito Corner (b)(6)  
**Sent:** Friday, March 18, 2011 2:01 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

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With grave concern,

Danito Corner

n/a

Cocos (Keeling) Islands

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Babiarz-Reese, Malgorzata (b)(6)  
(b)(6)  
**Sent:** Friday, March 18, 2011 2:03 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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With grave concern,

Babiarz-Reese, Malgorzata  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

**From:** info@ecologicalinternet.org on behalf of Denise Lytle (b)(6)  
**Sent:** Friday, March 18, 2011 2:05 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Denise Lytle  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Julia Trujillo (b)(6)  
**Sent:** Friday, March 18, 2011 6:09 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Julia Trujillo  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Elyn Sutton (b)(6)  
**Sent:** Friday, March 18, 2011 11:53 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Ellyn Sutton  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Diana Popa (b)(6)  
**Sent:** Friday, March 18, 2011 10:43 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Diana Popa  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Magdalena Mazurek  
**Sent:** (b)(6)  
**To:** Friday, March 18, 2011 10:34 PM  
**Subject:** FOIA Resource  
Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Magdalena Mazurek  
Canada

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Phyllis & Ivar Dolph (b)(6)  
**Sent:** Friday, March 18, 2011 9:41 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Phyllis & Ivar Dolph  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Marie-Francoise Kuss (b)(6)  
**Sent:** Friday, March 18, 2011 9:36 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Marie-Francoise Kuss  
Germany

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Mark Diekmann (b)(6)  
**Sent:** Friday, March 18, 2011 8:44 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants NOW and delay new starts!

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is currently occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar-design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Mark Diekmann  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sebastiana Mikulova  
(b)(6)  
**Sent:** Friday, March 18, 2011 7:35 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Sebastiana Mikulova  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Rhoda Winger  
(b)(6)  
**Sent:** Friday, March 18, 2011 7:34 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Rhoda Winger

Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Shannon Scott  
**Sent:** Friday, March 18, 2011 7:16 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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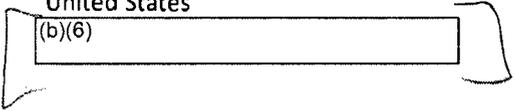
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With grave concern,

Shannon Scott  
United States

(b)(6)



cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Carmen Mo (b)(6)  
**Sent:** Friday, March 18, 2011 7:15 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Carmen Mo  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Jacqueline Hartwig  
**Sent:** Friday, March 18, 2011 6:40 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Jacqueline Hartwig  
Germany

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Sebastiana Mikulova  
(b)(6)  
**Sent:** Friday, March 18, 2011 6:06 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Sebastiana Mikulova  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Chris Redston (b)(6)  
**Sent:** Friday, March 18, 2011 6:24 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Chris Redston  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Dorothea Ericsson (b)(6)  
**Sent:** Friday, March 18, 2011 5:52 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Dorothea Ericsson  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Paul Rosenberger (b)(6)  
**Sent:** Friday, March 18, 2011 5:51 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

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With grave concern,

Paul Rosenberger  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

**From:**  
**Sent:**  
**To:**  
**Subject:**

info@ecologicalinternet.org on behalf of Ioseba Amatriain Losa (b)(6)  
Friday, March 18, 2011 5:52 PM  
FOIA Resource  
Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Ioseba Amatriain Losa

Spain

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Christian Lagarde (b)(6)  
**Sent:** Friday, March 18, 2011 5:23 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Christian Lagarde  
France

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of I.J.van Dijk (b)(6)  
**Sent:** Friday, March 18, 2011 5:21 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

I.J.van Dijk  
Stichting Ka  
Netherlands

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Patrice (b)(6)  
**Sent:** Friday, March 18, 2011 5:09 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Patrice

Peru

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Gomes Olivier (b)(6)  
**Sent:** Friday, March 18, 2011 4:56 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Gomes Olivier

France

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Liam Cumming (b)(6)  
**Sent:** Friday, March 18, 2011 4:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Liam Cumming  
GMB  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Gibson (b)(6)  
**Sent:** Friday, March 18, 2011 4:09 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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With grave concern,

Gibson  
Canada

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Claudia Go (b)(6)  
**Sent:** Friday, March 18, 2011 3:44 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

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All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Claudia Go  
Austria

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Gil Daniel (b)(6)  
**Sent:** Friday, March 18, 2011 3:42 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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With grave concern,

Gil Daniel  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Franziska Gerhardt  
(b)(6)  
**Sent:** Friday, March 18, 2011 2:47 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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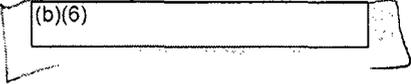
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With grave concern,

Franziska Gerhardt

Germany

(b)(6)

A rectangular box with a black border, containing the text "(b)(6)". The box is slightly irregular on the right side, suggesting it might be a scan of a physical document where the signature was redacted.

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Elizabeth Rice (b)(6)  
**Sent:** Friday, March 18, 2011 2:34 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Elizabeth Rice

Australia

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Annie Frame (b)(6)  
**Sent:** Friday, March 18, 2011 1:52 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Annie Frame  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Lieve Claes (b)(6)  
**Sent:** Friday, March 18, 2011 1:31 PM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Lieve Claes

Belgium

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Silke Dallmann (b)(6)  
**Sent:** Friday, March 18, 2011 2:07 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Silke Dallmann  
United Kingdom

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Terry Irwin (b)(6)  
**Sent:** Friday, March 18, 2011 3:35 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Terry Irwin  
University of Limerick  
Ireland

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:**

info@ecologicalinternet.org on behalf of Marsha Adams

(b)(6)

**Sent:**

Friday, March 18, 2011 3:39 AM

**To:**

FOIA Resource

**Subject:**

Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Marsha Adams  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of John Sanders (b)(6)  
**Sent:** Friday, March 18, 2011 3:47 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

John Sanders

United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Gary Leigh (b)(6)  
**Sent:** Friday, March 18, 2011 2:29 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

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It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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With grave concern,

Gary Leigh  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:**

info@ecologicalinternet.org on behalf of Paula Serraller

(b)(6)

**Sent:**

Friday, March 18, 2011 3:11 AM

**To:**

FOIA Resource

**Subject:**

Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Paula Serraller  
Spain

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Michaelain Null Kanzer  
(b)(6)  
**Sent:** Friday, March 18, 2011 8:50 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Michaelain Null Kanzer  
United States  
(b)(6)

cc:  
President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

34 821  
**Sheehan, Neil**

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**From:** Sheehan, Neil  
**Sent:** Friday, March 18, 2011 5:40 PM  
**To:** p.daddona@theday.com; susan.smallheer@rutlandherald.com; dgram@ap.org; sadkins@ydr.com; tbates@app.com; gclary@lohud.com; dgroom@syracuse.com; tknauss@syracuse.com; sbauers@phillynews.com; bgallo@sjnewsco.com; jchesto@ledger.com; bdaley@globe.com; raudette@reformer.com; jstilt@reformer.com; ebrandt@mercury.com; mpound@timesonline.com; mscoloro@ap.org; achiamida@newburyportnews.com; jdillon@vpr.net; sorr@democratandchronicle.com; acrabl@lnpnews.com; bgallo@sjnewsco.com; jmontgomery@delawareonline.com; lprocida@pressofac.com  
**Subject:** NRC Information Notice on Japan reactor events  
**Attachments:** JapanInformationNoticePressRelease.3-18-2011.pdf

FYI: We have issued an Information Notice regarding the Japan reactor events.

Here is a link to the Information Notice: <http://www.nrc.gov/reading-rm/doc-collections/gen-comm/info-notices/2011/ML110760432.pdf>

Neil Sheehan  
NRC Public Affairs

Cell: (b)(6)

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OPA-

**PRESS RELEASE**

(Source: Draft IN)

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**NRC INFORMS U.S. NUCLEAR POWER PLANTS  
ON JAPAN QUAKE'S EFFECTS**

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

The notice provides a brief overview of how the quake and tsunami are understood to have not only disabled several key safety-related systems at the Fukushima Daiichi nuclear power station, but also hampered efforts to return those systems to service. The notice also lists the known damage to the reactors and associated spent fuel pools as of Friday, March 18.

The notice reflects the current belief that the combined effects of the March 11 quake and tsunami exceeded the Fukushima Daiichi plant's design limits. The notice also recounts the NRC's efforts, post-9/11, to enhance U.S. plants' abilities to properly respond to the loss of large areas of a site following a severe event.

The NRC expects U.S. nuclear power plants will review the entire notice to determine how it applies to their facilities and consider actions, as appropriate, to avoid situations such as those at Fukushima Daiichi.

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**From:** info@ecologicalinternet.org on behalf of Katti KrÄ,vel-Velle (b)(6)  
**Sent:** Friday, March 18, 2011 4:24 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

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it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Katti Krøvel-Velle  
The Green Party of Norway  
Norway

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

28

**Barkley, Richard**

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**From:** Nguyen, Quynh  
**Sent:** Friday, March 18, 2011 3:28 PM  
**To:** Roberts, Darrell  
**Cc:** Barkley, Richard; Meighan, Sean  
**Subject:** RE: Sharepoint Site on the Fukushima Event

Yes (as POC for Region I).

As you may be aware, the EDO has pointed to this link for the **staff's internal use**.

(b)(6)

The other SharePoint is for those directly involved to work the issues.

Robert Nelson is aware and very cognizant that mid-Cycle meetings are coming up. His team is working it. Stay tuned!

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**From:** Roberts, Darrell  
**Sent:** Thursday, March 17, 2011 7:29 PM  
**To:** Nguyen, Quynh  
**Subject:** RE: Sharepoint Site on the Fukushima Event

Quynh,

Was this message intended for me?

DJR

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**From:** Nguyen, Quynh  
**Sent:** Thursday, March 17, 2011 8:55 AM  
**To:** Nguyen, Quynh; Barkley, Richard  
**Cc:** Roberts, Darrell; Meighan, Sean  
**Subject:** RE: Sharepoint Site on the Fukushima Event  
**Importance:** High

Darrell,

On further thought, it is wise to share with all the staff? We are storing things that we are working on... I can make another site for what has been released by OPA????

Quynh

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**From:** Nguyen, Quynh  
**Sent:** Thursday, March 17, 2011 8:31 AM  
**To:** Barkley, Richard  
**Cc:** Roberts, Darrell; Meighan, Sean  
**Subject:** RE: Sharepoint Site on the Fukushima Event

(b)(6)

AAAA/366

It's important to note that there is Limited Contributor rights for document control. Only those blessed by OPA are "useable." Keep checking as we keep adding.

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**From:** Barkley, Richard  
**Sent:** Wednesday, March 16, 2011 5:59 PM  
**To:** Wertz, Trent; Virgilio, Rosetta; Sheehan, Neil; Nguyen, Quynh  
**Subject:** Sharepoint Site on the Fukushima Event  
**Importance:** High

Word is there is a Sharepoint site on the Fukushima event that can be annexed by employees.

I can't find the link – Have any leads?? Thanks!

I promised to share it with the Region I staff.

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

(b)(6) *ex 6*

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**From:** info@ecologicalinternet.org on behalf of Graeme G. Booth (b)(6)  
**Sent:** Friday, March 18, 2011 12:27 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts. Nuclear belongs to the old industrial era, the future is clean solar.

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please, immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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With grave concern,

Graeme G. Booth  
SALO  
Sweden

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Mahto A Alarcon (b)(6)  
**Sent:** Friday, March 18, 2011 12:14 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission, If what the philosophers say be true,--that all men's actions proceed from one source; that as they assent from a persuasion that a thing is so, and dissent from a persuasion that it is not, and suspend their judgment from a persuasion that it is uncertain,--so likewise they seek a thing from a persuasion that it is for their advantage.

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

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With grave concern,

Mahto A Alarcon  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

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**From:** info@ecologicalinternet.org on behalf of Gordon Wirth (b)(6)  
**Sent:** Friday, March 18, 2011 12:07 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Gordon Wirth  
Canada

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

**From:** Lee, Richard  
**To:** Gibson, Kathy; Sangimino, Donna-Marie  
**Cc:** Wagner, Katie; Rivera-Lugo, Richard; Hudson, Daniel; Case, Michael  
**Subject:** RE: Japanese TV request for Snadia video footage. FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report  
**Date:** Friday, March 18, 2011 10:39:10 AM

---

Is not DE stuff. It is sponsored by us long, long time ago.

It showed lower head failure under heat loads, and the data was used to give guidance on how to model lower head failure resulting from molten core material relocated to the lower head under severe accident conditions.

I cannot speak to the public image part.

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

From: Gibson, Kathy  
Sent: Friday, March 18, 2011 10:34 AM  
To: Sangimino, Donna-Marie  
Cc: Wagner, Katie; Rivera-Lugo, Richard; Hudson, Daniel; Case, Michael; Lee, Richard  
Subject: RE: Japanese TV request for Snadia video footage. FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Ok, sounds like a DE thing to me. What does it show? Will it be perceived as a positive message (public) or negative message?

If Ops Center and OPA are on board, I'm ok with it.

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

From: Sangimino, Donna-Marie  
Sent: Friday, March 18, 2011 10:30 AM  
To: Gibson, Kathy  
Cc: Wagner, Katie; Rivera-Lugo, Richard; Hudson, Daniel  
Subject: RE: Japanese TV request for Snadia video footage. FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Kathy,

This activity pre-dates the creation of DSA, but the technical scope clearly falls under the scope of severe accidents (I've cc'ed the other divisions for their information).

Donna-Marie

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

From: Gibson, Kathy  
Sent: Friday, March 18, 2011 10:27 AM  
To: Sangimino, Donna-Marie  
Cc: Wagner, Katie  
Subject: Re: Japanese TV request for Snadia video footage. FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Is this a DSA sponsored activity? I'd so I rely on Richard's judgement and don't object. If it was sponsored by the other divisions they should be consulted. Agree that Ops center and OPA be consulted

AAA/370

also.

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

From: Sangimino, Donna-Marie

To: Sheron, Brian; Uhle, Jennifer; Gibson, Kathy

Cc: Lee, Richard; Valentin, Andrea; Kardaras, Tom; Dehn, Jeff

Sent: Fri Mar 18 10:18:27 2011

Subject: FW: Japanese TV request for Snadia video footage. FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

All,

This is a request from NEA about video footage of an OECD/NEA program from ~10 years ago. It was NRC funded, Sandia hosted. The video is of a vessel being pressurized and heated until it fails. NEA wants to release the video to a Japanese TV station, and believes it is publically releasable at this point. They're looking to the NRC for a tacit approval at this point.

Jeff talked to Richard, and he believes there isn't a technical reason to decline the request. If you have an opinion on this, please forward as soon as possible. Jeff can provide the video or a link and password to view the video if desired.

We would propose forwarding this request to the Ops Center management with no objection to NEA's request.

Thank you,

Donna-Marie Sangimino

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

Sent: Friday, March 18, 2011 7:28 AM

To: Dehn, Jeff; Sangimino, Donna-Marie

Cc: Janice.DUNNLEE@oecd.org; Javier.REIG@oecd.org

Subject: Japanese TV request for Snadia video footage. FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Hello Jeff -

A Japanese news station would like to obtain footage and report of the Oct 23 2000 experiment the OECD had requested Sandia to conduct. Please see below the news release from Sandia.

<http://www.sandia.gov/media/NewsRel/NR2000/vessel.htm>

In the e-mail below, the video is identified from the secure NEA website (and information to access it).

Bottom line, the data from the project is now publically available, but there is a question if video footage is included or not.

Before making any decision, the NEA would like to check with the NRC.

Best regards,

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

From: GAS Serge, NEA/RE  
Sent: Friday, March 18, 2011 12:03  
To: DUNN LEE Janice, NEA; JACKSON Diane, NEA/SURN  
Cc: CLAPPER Maureen [United States]; STANFORD Benjamin, NEA/RE  
Subject: FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Hello Janice and Diane,

Please see below – I assume you can download the video from this link (Ben will otherwise advise how to proceed).

<http://www.oecd-nea.org/press/accredited/video/OLHF-2.mpg>

Please use the following username and password:

Username:

Password:

Could you please make sure that NRC has no objection to the release of the footage?

Thanks in advance.

Best regards,

Serge

From: GAS Serge, NEA/RE  
Sent: Friday, March 18, 2011 11:56  
To: 'KAMADA TOSHIHIKO'  
Cc: DUNN LEE Janice, NEA; YOSHIMURA Uichiro, NEA/SRAN; REIG Javier, NEA/SURN  
Subject: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Dear Toshi,

I am being told that we could be entitled to send it but we don't want to do that without the Japanese government's green light and the US NRC's since they were the main funding organisation at the time. We are starting now to see with the US NRC is it is fine with them. If you could look on your side. Thanks a lot in advance.

Best regards,

Serge

From: KAMADA TOSHIHIKO [<mailto:toshihiko.kamada@mofa.go.jp>]  
Sent: Friday, March 18, 2011 11:22  
To: STANFORD Benjamin, NEA/RE; GAS Serge, NEA/RE  
Cc: YOSHIMURA Uichiro, NEA/SRAN  
Subject: RE: FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Dear Mr. Benjamin Stanford and Serge,

Thank you very much for your information!

May I ask you a question?

Whose possession is the contents and data of this video and the report?

(member country?, project participants?, NEA? or others?)

Is it possible to think that NEA has right to decide whether this should be open or not?

Best regards,

Toshi

//

Toshihiko KAMADA

First Secretary (Science and Technology)

Permanent Delegation of Japan to the OECD

TEL: +33 (0)1 53 76 61 81

FAX: +33 (0)1 45 63 05 44

E-mail: toshihiko.kamada@mofa.go.jp <<mailto:toshihiko.kamada@deljp-ocde.fr>>

//

経済 力開発 構日本政 代表

一等書 官(科学 術担 )

鎌田俊彦

//

From: Benjamin.STANFORD@oecd.org [<mailto:Benjamin.STANFORD@oecd.org>]

Sent: Friday, March 18, 2011 10:50 AM

To: Serge.GAS@oecd.org; KAMADA TOSHIHIKO

Cc: Uichiro.YOSHIMURA@oecd.org

Subject: RE: FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Dear Mr. Kamada,

You can download the video from this link.

<http://www.oecd-nea.org/press/accredited/video/OLHF-2.mpg>

Please use the following username and password:

Username:   
Password:

Please do not share this username and password. We will provide a separate one to the journalists if the video is to be shared.

Please contact me should you have any technical difficulties.

Best regards,

Benjamin Stanford  
Webmaster  
OECD Nuclear Energy Agency (NEA)  
Tel.: +33 (0)1 45 24 10 09  
benjamin.stanford@oecd.org <<mailto:benjamin.stanford@oecd.org>>  
[www.oecd-nea.org](http://www.oecd-nea.org) <<http://www.oecd-nea.org>>

From: GAS Serge, NEA/RE  
Sent: Friday, March 18, 2011 10:41 AM  
To: KAMADA Toshihiko [Company Name]  
Cc: YOSHIMURA Uichiro, NEA/SRAN; STANFORD Benjamin, NEA/RE  
Subject: FW: FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report  
Importance: High

Dear Toshi,

Please see the exchange of messages below. In fact we have found the footage but the video could have some impact on the public so I think you should have a look before we pass it to the TV channel. Our webmaster Ben Stanford is going to send it to you very soon.

Best regards,

Serge

From: yuhong hiro koh (b)(6)  
Sent: Friday, March 18, 2011 10:15  
To: GAS Serge, NEA/RE  
Cc: HUERTA Alejandro, NEA/SURN; TURCHI Elodie, PAC/WASH; RUMPF Matthias, PAC/WASH; FISHER Helen, PAC/COM  
Subject: Re: FW: NHK-TV, Japan - Sandia OECD Lower Head Failure Project - final report

Mr. Serge Gas,

Thank you very much for this.  
Can you please tell me if you have a video footage of the experiment?  
If you do, I would like to send someone from NHK Europe to retrieve it today.  
I have contacted Sandia, but they unfortunately do not want to help in this matter and are not lifting a finger. Thank you again.

Hiro

On 3/18/2011 1:55 AM, Serge.GAS@oecd.org wrote:

Dear Hiro,

This is the final report of the OECD (Sandia) Lower Head Failure project run between 2000 and 2002.

The final report is available (downloadable) on our public website:

<http://www.oecd-nea.org/nsd/docs/2002/csni-r2002-27.pdf>

We cannot send it since it is 570 pages and about 40 Mbytes, without the appendices.

These experiments were to assess resistance of reactor vessel in case of core melt down.

Our expert Alejandro Huerta (copied, +33 1 45 24 10 57) can help you to understand the report if you need it.

Best regards,

Mr. Serge Gas

Head, Central Secretariat, External Relations and Public Affairs

OECD Nuclear Energy Agency

Tel. : +33 1 45 24 10 10

Fax: +33 1 45 24 11 15

Le Seine Saint Germain, 12 Boulevard des Iles, 92130 Issy-les-Moulineaux, France

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

From: yuhong hiro koh (b)(6)

Sent: Thursday, March 17, 2011 3:35 PM

To: TURCHI Elodie, PAC/WASH

Subject: NHK-TV, Japan

Dear Elodie,

Thank you for accommodating me over the phone just now.

We would like to obtain FOOTAGE and REPORT of the 2000, Oct 23 experiment the OECD had requested Sandia to conduct. Please see below the news release from Sandia.

<http://www.sandia.gov/media/NewsRel/NR2000/vessel.htm>

I don't have a name of the experiment, but it was to see how strong the reactor vessels are to pressure and and blasts.

Again, we have a Friday night deadline for the special edition program we are putting together on the situation at Fukushima.

I would sincerely and greatly appreciate your help.

Thank you,

Hiro

--

Yuhong Hiro Koh

NHK, Science & Nature

Tel: US ++1 310-502-4506

Fax: US ++1 310-539-3021

e: s02709-koh@nhk.or.jp

(b)(6)

Homepage: <http://www.nhk.or.jp>

English: <http://www.nhk.or.jp/nhkworld/index.html>

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--

Yuhong Hiro Koh

NHK, Science & Nature

Tel: US ++1 310-502-4506

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(b)(6)

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**From:** info@ecologicalinternet.org on behalf of Rob Seltzer (b)(6)  
**Sent:** Friday, March 18, 2011 1:48 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

In the United States, some reactors which have recently had their licenses extended are nearly 40 years old, and their owners are asking the Nuclear Regulatory Commission for approval to extend their lives further. No additional extensions should be granted, and these older reactors that have been extended must be taken off line immediately and inspected given recent happenings in Japan. Clearly these 1970s vintage era systems were not adequately engineering for infrequent but large natural disasters and increasingly human exacerbated events.

Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

All existing nuclear energy plants, waste and weapons are accidents waiting to happen. Nuclear complexity, ecological costs, natural disasters and a conflict ridden world show nukes can never be safe. The price of nuclear fission is potentially enormous when even one accident happens, must less several as now with our Japanese brothers and sisters.

In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Rob Seltzer  
United States

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holdren; NRC Contacts for Open Government

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**From:** Schwartzman, Jennifer  
**Sent:** Thursday, April 21, 2011 4:40 PM  
**To:** LIA08 Hoc; ET02 Hoc  
**Subject:** FW: OUO-Travel to Japan

FYI – here is the new list of travelers

---

**From:** Holahan, Patricia  
**Sent:** Thursday, April 21, 2011 4:05 PM  
**To:** Leeds, Eric; Ruland, William; Givvines, Mary; Tracy, Glenn; Hudson, Jody; Satorius, Mark; Pederson, Cynthia; McCree, Victor; Abrams, Charlotte; Mamish, Nader; Haney, Catherine; Kokajko, Lawrence; Doane, Margaret  
**Cc:** Mitchell, Matthew; Plasse, Richard; Freeman, Scott; Lynch, James; Miller, Mark; Peterson, Hironori; Temps, Robert; Masse, Todd; Stapleton, Bernard; Young, Francis; Bloom, Steven; Schwartzman, Jennifer; Reynolds, Steven; Casto, Chuck; Evans, Michele; Virgilio, Martin; Matheson, Mary; Mitchell, Reggie; Marshall, Jane  
**Subject:** OUO-Travel to Japan

Office directors,

Thank you very much for your nominees to support Japan. I have tried not to impact any one office too much but I think these folks will be a great support for Chuck and Steve in Japan.

Francis (Skip) Young  
Hironori Peterson  
Mark Miller  
Robert Temps  
Richard Plasse  
Scott Freeman  
Jim Lynch  
Matthew Mitchell

Either Steve Bloom or Jen Schwartzman in OIP will be in touch with the travelers. We're planning on them leaving around the 28<sup>th</sup> or 29<sup>th</sup> of April.

Thanks again,

Trish

Patricia K. Holahan  
Director, Division of Security Operations  
Office of Nuclear Security and Incident Response  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

(301) 415-6828 (work)  
(240) 688-1232 (cell) —  
[patricia.holahan@nrc.gov](mailto:patricia.holahan@nrc.gov)

AAAA/372

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**From:** Buschman, Francis X (Contractor) <Francis.Buschman.Contractor@unnpp.gov>  
**Sent:** Friday, March 18, 2011 8:45 AM  
**To:** RST01 Hoc  
**Subject:** SP NRC Recommendations

Please send to this address

AAAA/373

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**From:** RST01B Hoc  
**Sent:** Friday, March 18, 2011 4:41 PM  
**To:** hiroshi b.; keisuke.kitsukawa@toshiba.co.jp  
**Cc:** RST01 Hoc  
**Subject:** FW: SFP Drawings for Units 1-3 Fukushima Nuclear Power Plant

Please send detailed cross-sectional geometry info on units 1-3 spent fuel pools for our structural guys. Reply to [rst01hoc@nrc.gov](mailto:rst01hoc@nrc.gov)

Thanks.

---

**From:** Marksberry, Don  
**Sent:** Friday, March 18, 2011 3:40 PM  
**To:** RST01 Hoc  
**Cc:** Hasselberg, Rick  
**Subject:** RST Staffing for tonight

RST Coordinator

I am scheduled for the 11-7 shift tonight, but was able to recruit Don Helton to take my place. Don is an RES expert spend fuel pool analysis and modeling, who just got back from official travel an hour ago. Don will be best suited for tonight given the ongoing issues with spent fuel. Charlie Tinkler and I briefed Don about the 11:30 am RST telecom on spent fuel pool recovery strategies. Don is at home resting for tonight's shift.

I am available to support the RST at anytime. Please feel free to call my cell at (b)(6) or e-mail me @nrc. I will periodically check my work e-mail. I will also be in the office all day tomorrow (Saturday) working on less urgent non-Japan work.

Don Marksberry

Division of Risk Analysis  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission  
21 Church Street  
Rockville, Maryland 20850-4207

Phone: 301-251-7593  
E-mail: [Don.Marksberry@nrc.gov](mailto:Don.Marksberry@nrc.gov)

USPS & Express Mail Address:  
Mail Stop: C-4C07M  
Washington, D.C. 20555-0001

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**From:** RST01 Hoc  
**Sent:** Friday, March 18, 2011 7:25 PM  
**To:** Casto, Chuck; Devercelly, Richard; Kolb, Timothy  
**Cc:** RST01 Hoc  
**Subject:** Facility Photos

**Importance:** High

Please resend the photos taken at the site. I believe they were taken on the Eastern side of the facility? They did not come through.

Respectfully,

Greg, RST Coordinator

**From:** Haney, Catherine  
**To:** Evans, Michele; Mamish, Nader  
**Cc:** Dorman, Dan  
**Subject:** Staff for Japan  
**Date:** Friday, March 18, 2011 11:39:00 AM

---

I reviewed the list that we sent over yesterday against the skill set that was discussed on the recent call. I offer the following individuals. All four have (b)(6) I have listed in rank order for consideration (first on list highest).

Michel Call, Nuclear Engineer – Fluent in Japanese. Lived in northern Japan for 2 years. Criticality and shielding evaluations. Available to travel on March 31.

Jack Davis, Deputy Director HLWRS – SES – Nuclear Engineer, Criticality. Responded to the Tokaimura Criticality Accident in 1999. Trained member of the NRC Incident Investigation Team. Available to travel now.

Tae Ahn PhD. Sr. Materials Engineer – Materials, notably corrosion, Zr/Water and other materials issues associated with cask systems. Note, since English is (b)(6) for Dr. Ahn, I would (b)(6). Available to travel now.

Yawar Faraz, Sr. Project Manager HLWRS - 1982: Nuclear Engineering, Certified Health Physicist

AAAA/374

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**From:** info@ecologicalinternet.org on behalf of Mercedes Montes (b)(6)  
**Sent:** Friday, March 18, 2011 12:49 AM  
**To:** FOIA Resource  
**Subject:** Please follow Europe and China's leads and inspect old nuclear plants and delay new starts

Dear U.S. Nuclear Regulatory Commission,

Given the worsening Japanese nuclear disaster, I am writing to demand immediate closure of U.S. nuclear energy facilities that remain operational after having exceeded their engineered operable life. Please immediately close these facilities for inspection in an orderly manner as is occurring in Europe. It is the prudent thing to do given many older reactors in the U.S. are of similar design as those melting down in Japan.

Japan is facing the worst nuclear crisis since the atomic bombing of Hiroshima and Nagasaki. Multiple explosions have hit the Fukushima Daiichi nuclear plant, several reactors have lost their cooling systems, raising fears of meltdown(s). Radiation levels have been detected as far as 100 miles away. Many people have tested positive for radiation exposure, and hundreds of thousands of have been evacuated, with the numbers expected to rise.

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Further, it is presumptuous for the federal government to be planning to provide for \$36 billion in loan guarantees to build still more nuclear plants, when we do not yet have a permanent waste repository, or even a plan. We are dooming civilizations for hundreds of thousands of years to having to protect and maintain enclosure upon our nuclear waste. Nuclear waste stored on site has caught fire in Japan, and the current on site storage across America is completely unacceptable. It is not a matter of if, it is only one of when will there be a nuclear disaster in America.

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In a continually more disorderly world, it is clear that no nuclear materials are secured, and that developing countries embracing nuclear energy will lead to weapon proliferation and yet more great loss of life from accidents and war. But we could choose to ban nuclear materials in their entirety.

It is time for humanity to choose which technologies they allow based upon full preponderance of the evidence - and as an ecologist I would predict all but certain similar impacts no matter the effort from the introduction of geo-engineering, genetically modified organisms (particularly food), nanotech, etc. Nuclear fission has been shown to be deadly in the field of battle, along Japan's coastal plains, it's unsecured wastes are growing, and through terrorist and militaristic rhetoric regarding their use in an increasingly unstable world.

Please immediately cease extending the licenses of old nuclear power plants, and shut down for inspection those which have been extended. We will be calling upon President Obama to convene an urgent summit to begin fully dismantling global nuclear weaponry. Some technologies such as splitting the atom at their root are anti-human and Earth. Let's get

it done, ban the bomb, ban nuclear energy, and commit to climate and energy solutions that are serious and include life-saving energy conservation, efficiency, carbon taxes & using only true renewables. This will soon be the only energy at our disposal if we desire a habitable Earth, and we must transform our society accordingly.

With grave concern,

Mercedes Montes

Mexico

(b)(6)

cc:

President Obama; EPA Administrator, Lisa P. Jackson; Secretary of Agriculture, Tom Vilsack; Secretary of Energy, Steven Chu; Secretary of Interior, Ken Salazar; NOAA Administrator, Jane Lubchenco; President's Science Advisor, Dr. John Holden; NRC Contacts for Open Government

**From:** [Lew, David](#)  
**To:** [Leeds, Eric](#)  
**Cc:** [Dean, Bill](#)  
**Subject:** RE: More on 50 miles - see attached.  
**Date:** Saturday, March 19, 2011 12:34:50 PM

---

Eric, Just a sensitivity on my part. We need to be careful on personal commentaries with respect to emails. Everything is subject to FOIA and I would envision the basis for the 50 miles would be of high interest Dave

---

**From:** Leeds, Eric  
**Sent:** Friday, March 18, 2011 6:01 PM  
**To:** Nelson, Robert; Markley, Michael  
**Cc:** Lew, David; Dean, Bill  
**Subject:** More on 50 miles - see attached.

This could help also with the discussion on Monday.

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

---

**From:** Milligan, Patricia  
**Sent:** Friday, March 18, 2011 5:03 PM  
**To:** Leeds, Eric  
**Subject:** Fw: NRC vsEPA

Sent from my NRC Blackberry  
Patricia A Milligan, CHP RPH

(b)(6)

---

**From:** Milligan, Patricia  
**To:** Mackinney, John A <John.Mackinney@dhs.gov>  
**Sent:** Fri Mar 18 10:35:50 2011  
**Subject:** RE: NRC vsEPA

they know not of what they speak.

If they read NUREG-0654/FEMA-REP-1 the basis for the 10 mile EPZ (and there is also a 50 mile EPZ) that clearly states the 10 mile EPZ provides a substantial basis for expansion of the 10 mile EPZ as is necessary. Given the lack of information coming from the Japanese and the lack of any apparent cohesive plan to address the problems and the projected doses if things continued to get worse, the NRC decided it was prudent to recommend evacuation beyond that recommended by the Japanese. It is not inconsistent with the regulations or guidance. It is simply a case of "selective" reading by the Ed Lyman's of the world.

we can discuss how we reached that decision if you like. I was part of the protective measures team that was making these decisions.

AAAA/376

Patricia Milligan, CHP, RPh  
Senior Technical Advisor for Preparedness & Response  
Office of Nuclear Security and Incident Response  
US NRC  
MS T B46M  
Washington, DC 20555  
301-415-2223  
Blackberry (b)(6)

12  
**Hansell, Samuel**

**From:** R1BULLETIN RESOURCE  
**Sent:** Monday, March 21, 2011 8:03 AM  
**To:** All R1 Users  
**Subject:** NRC Viewing of the Commission Meeting on the Japan Event (Region I)  
**Attachments:** Staff Slides for March 21 Meeting Rev 1.pptx

**Importance:** High

This morning's Commission meeting will be held in the Main Conference Room. Those out of the office can dial in to the Region I bridge (see bridge # below) to hear the briefing, and also follow along using the attached slides. If you dial in via the bridge, please remember to mute your phones. Additionally since there are only 34 bridge lines available, please share lines where possible.

**Dial in bridge #:** (888) 469-1338

**Pass code:** (b)(6)

---

**From:** NRC Announcement [<mailto:nrc.announcement@nrc.gov>]  
**Sent:** Friday, March 18, 2011 3:48 PM  
**To:** NRC Announcement  
**Subject:** Event: NRC Viewing of the Commission Meeting on the Japan Event

## NRC Daily Announcements

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**Friday March 18, 2011 -- Headquarters Edition**

◆ **Event: NRC Viewing of the Commission Meeting on the Japan Event**

### **Event: NRC Viewing of the Commission Meeting on the Japan Event**

On Monday, March 21, 2011, the NRC will hold a Commission Meeting to address the ongoing nuclear events at the Fukushima Nuclear Reactor site in Japan. The meeting is scheduled to convene at 9 a.m. in the One White Flint North (OWFN) Commission Hearing Room. Interested staff is encouraged to view the proceedings at one of the following locations:

- Two White Flint North (TWFN) auditorium
- TWFN exhibit area
- Cable Channel 46 and 47 throughout the White Flint North Complex
- TWFN Building O-2 B5
- OWFN Building - O-3 B4
- Executive Boulevard Building - 1B15
- Twinbrook Building - 5E01
- Church Street Building - 2C19
- Gateway Building - 04B2
- Region I\*
- Region II\*
- Region III\*
- Region IV\*

AAAA/377

- Technical Training Center\*

\*Regional and TTC staff will be notified of the VTC viewing location by their VTC coordinator.

For more information about event viewing locations, contact Jason Wright at 415-5446 or Christine Kundrat at 415-6130.

[AL TOP](#)

(2011-03-18 00:00:00.0)

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# **Briefing on NRC Response to Recent Nuclear Events in Japan**

**Bill Borchardt**

**Executive Director for Operations**

**March 21, 2011**

# **Agenda**

- **Event Overview**
- **Immediate NRC Response**
- **Continuing NRC Response**
- **Health Effects of Radiation**
- **Domestic Reactor Safety**
- **Path Forward**

# **Event Overview**

- **Discussion of initiating event**
- **Current status of reactors**
- **Current status of spent fuel pools**

# **Immediate NRC Response**

- **Activated Operations Center**
- **Dispatched NRC experts to Japan**
- **Areas of focus**
- **Extensive outreach to stakeholders**

# **Continuing NRC Response**

- **Operations Center**
- **Support U.S. response**
- **Provide assistance**
- **Mobilize resources**

# **Health Effects of Radiation**

- **Offsite Doses**
- **Radiological Consequences**

# **Domestic Reactor Safety**

- **NRC oversight of U.S. plant safety**
- **Continuous improvement based on operating experience**

# **NRC Activities - Near Term**

- **Inspection Activities**
- **Generic Communications**
- **Immediate regulatory actions**

# **NRC Activities – Longer Term**

- **Lessons learned and recommendations**
- **Regulatory actions, for example, to identify potential:**
  - **Research projects**
  - **Generic issues**
  - **Regulatory enhancements**

# Conclusion

Schaperow, Jason

---

From: Schaperow, Jason  
Sent: Monday, March 21, 2011 2:54 PM  
To: Gibson, Kathy  
Subject: RE: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

We are paying for Sandia's time under the SOARCA project.

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

From: Gibson, Kathy  
Sent: Monday, March 21, 2011 2:49 PM  
To: Schaperow, Jason; Santiago, Patricia; Lee, Richard  
Cc: Wagner, Katie; Tinkler, Charles; Scott, Michael; Elkins, Scott; Chang, Richard  
Subject: Re: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

Who is paying for Sandia's time? Is this work something we would want done anyway?

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

From: Schaperow, Jason  
To: Santiago, Patricia; Lee, Richard  
Cc: Wagner, Katie; Tinkler, Charles; Gibson, Kathy; Scott, Michael; Elkins, Scott; Chang, Richard  
Sent: Mon Mar 21 14:44:35 2011  
Subject: RE: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

SNL is supporting this request from NR. They worked with Jennifer and me late last night and today. I plan to talk with KC Wagner shortly, as we will need his help in answering most of the questions below.

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

From: Santiago, Patricia  
Sent: Monday, March 21, 2011 2:14 PM  
To: Schaperow, Jason; Lee, Richard  
Cc: Wagner, Katie; Tinkler, Charles; Gibson, Kathy; Scott, Michael; Elkins, Scott; Chang, Richard  
Subject: Re: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

When the action is closed we also need to alert katie and richard. Also u should cc me as we realize this work is dynamic so that I know what work is being done or requested. Is SNL doing anything since that requires u also cc richard chang as pm so he knows who is directing who at his contractor. we also need to let him know the extent of snl support since there is only 100k for this support presently.

Thanks

Sent from an NRC BlackBerry

Patricia Santiago

(b)(6)

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

From: Schaperow, Jason  
To: Lee, Richard  
Cc: Wagner, Katie; Tinkler, Charles; Szeto, Gordon CIV SEA 08 NR <gordon.szeto@navy.mil>; Santiago, Patricia  
Sent: Mon Mar 21 13:23:17 2011  
Subject: FW: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

Hi Richard,

Last night, when Jennifer Uhle was in the Ops Center, she directed me to coordinate with Naval Reactors (NR) who had some questions regarding spent fuel pool accident progression analysis for Fukushima Daiichi unit 4. Also, she sent NR the latest results of KC's spent fuel pool calculations for Fukushima Daiichi unit 4. I coordinated with NR last night and again this morning and, as a result, they forwarded me the information request below. I am forwarding it to you, as it is my understanding that you are handling and overseeing information requests for our division.

Thanks,  
Jason

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

From: Szeto, Gordon CIV SEA 08 NR (b)(6)

Sent: Monday, March 21, 2011 1:15 PM

To: Schaperow, Jason

Cc: Roberts, Thomas E CIV SEA 08 NR; Steinhurst, Laurel A CIV SEA 08 NR; Herman, David R CIV NAVSEA, 08; Vavoso, Thomas G CIV NAVSEA, 08; Bell, Stephen T CIV SEA 08 NR; Steele, Jeffrey M CIV SEA 08 NR; robert.fontaine.contractor@unnpp.gov; thomas.sambolt.contractor@unnpp.gov; marlene.gilmore.contractor@unnpp.gov

Subject: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

Jason

Below are questions from NR program on the subject from 1015 call 21 Mar 11-

1. What is the decay heat assumed in the model. How is the fuel and its decay heat distributed radially (temperature plots indicate similar behavior for the "fresh" and "older" fuel). What are the decay heat assumptions for the "recently discharge" and "older discharged" fuel?
2. Clad temperature plots indicate complete clad relocation at about 17.6 days. What is the failure mechanism modeled in MELCOR?  
  
(Highest temperature is too low to be melting. All axial elevations regardless of temperature fail at the same time.)
3. What is the fraction of zircaloy that has oxidized? The hydrogen generation plot shows increase of hydrogen generation due to zircaloy stopping at about 17.6 days (consistent with relocation) and no hydrogen generation after that.
4. What is the nodalization of the MELCOR model?
5. Why did the calculation stop at 18.2 Days?
6. Are there any results available from CAV or CVH Packages?
7. In the model, is the depleted oxygen being replenished from outside the building?
8. On the "hydrogen generation" curve, all of the hydrogen generation appears to stop prior to relocation of the core. What is the reason for the stopping of hydrogen generation?
9. What is the distribution of the older vs newer fuel in the pool and how was it modeled in the analysis? Can NRC contact GE spent fuel personnel to get insight into how Daiichi plants may distribute fuel?

10. Reports - please provide copies of the 5 reports that were given to GE on this analysis. Also, provide a bibliography of the other relevant reports for the BWR spent fuel pool analysis.

The reports should be provided to Mr. Fontaine (KAPL) at the email address above, Mr. Sambolt (Bettis), and Mr. Szeto at NR. NR mailing address for paper copy is:

1240 Isaac Hull Ave  
SE Building 104  
Washington DC 20376-8005

Call me if you have questions Jason

Tks

Gszeto

[ 202-781-5834 ]

Naval Reactors

**Schaperow, Jason**

---

**From:** Schaperow, Jason  
**Sent:** Monday, March 21, 2011 2:40 PM  
**To:** Uhle, Jennifer  
**Cc:** Gibson, Kathy; Tinkler, Charles; Lee, Richard; Wagner, Katie; Santiago, Patricia  
**Subject:** RE: Continued discussion with KAPL  
**Attachments:** NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

FYI, we just got in the attached detailed info request from Naval Reactors (NR). We are working to fulfill it.

---

**From:** Uhle, Jennifer  
**Sent:** Monday, March 21, 2011 5:48 AM  
**To:** Schaperow, Jason; Tinkler, Charles  
**Cc:** Gibson, Kathy  
**Subject:** Continued discussion with KAPL

Jason,

Please coordinate with Stephen Bell (he will be in the Ops Center) concerning discussion with KAPL on the differences in the KAPL and NRC/Sandia evaluation of Unit 4. The Chairman is meeting with the Admiral tomorrow and Naval Reactor will indicate that it is likely that KAPL analysis was conservative and that NRC's analysis is more accurate. However, KAPL and NRC will discuss the differences to assist KAPL in understanding the modeling differences. Feel free to get Sandia on the discussion as well. Please also send the input decks and reports to KAPL and cc (b)(6)

Thanks a lot,

Jennifer

AAAA/379

## Schaperow, Jason

---

**From:** Szeto, Gordon CIV SEA 08 NR (b)(6)  
**Sent:** Monday, March 21, 2011 1:15 PM  
**To:** Schaperow, Jason  
**Cc:** Roberts, Thomas E CIV SEA 08 NR; Steinhurst, Laurel A CIV SEA 08 NR; Herman, David R CIV NAVSEA, 08; Vavoso, Thomas G CIV NAVSEA, 08; Bell, Stephen T CIV SEA 08 NR; Steele, Jeffrey M CIV SEA 08 NR; robert.fontaine.contractor@unnpp.gov; thomas.sambolt.contractor@unnpp.gov; marlene.gilmore.contractor@unnpp.gov  
**Subject:** NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

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The reports should be provided the Mr. Fontaine (KAPL) at the email address above, Mr. Sambolt (Bettis), and Mr. Szeto at NR. NR mailing address for paper copy is:

1240 Isaac Hull Ave  
SE Building 104

Washington DC 20376-8005

Call me if you have questions Jason

Tks

Gszeto

202-781-5834

Naval Reactors

**Schaperow, Jason**

---

**From:** Schaperow, Jason  
**Sent:** Monday, March 21, 2011 2:45 PM  
**To:** Santiago, Patricia; Lee, Richard  
**Cc:** Wagner, Katie; Tinkler, Charles; Gibson, Kathy; Scott, Michael; Elkins, Scott; Chang, Richard  
**Subject:** RE: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

SNL is supporting this request from NR. They worked with Jennifer and me late last night and today. I plan to talk with KC Wagner shortly, as we will need his help in answering most of the questions below.

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

**From:** Santiago, Patricia  
**Sent:** Monday, March 21, 2011 2:14 PM  
**To:** Schaperow, Jason; Lee, Richard  
**Cc:** Wagner, Katie; Tinkler, Charles; Gibson, Kathy; Scott, Michael; Elkins, Scott; Chang, Richard  
**Subject:** Re: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

When the action is closed we also need to alert katie and richard. Also u should cc me as we realize this work is dynamic so that I know what work is being done or requested. Is SNL doing anything since that requires u also cc richard chang as pm so he knows who is directing who at his contractor. we also need to let him know the extent of snl support since there is only 100k for this support presently.

Thanks

Sent from an NRC BlackBerry  
Patricia Santiago

(b)(6)

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

**From:** Schaperow, Jason  
**To:** Lee, Richard  
**Cc:** Wagner, Katie; Tinkler, Charles; Szeto, Gordon CIV SEA 08 NR (b)(6) Santiago, Patricia  
**Sent:** Mon Mar 21 13:23:17 2011  
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Jason

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**Sent:** Monday, March 21, 2011 1:15 PM  
**To:** Schaperow, Jason  
**Cc:** Roberts, Thomas E CIV SEA 08 NR; Steinhurst, Laurel A CIV SEA 08 NR; Herman, David R CIV NAVSEA, 08; Vavoso, Thomas G CIV NAVSEA, 08; Bell, Stephen T CIV SEA 08 NR; Steele, Jeffrey M CIV

SEA 08 NR; [robert.fontaine.contractor@unnpp.gov](mailto:robert.fontaine.contractor@unnpp.gov); [thomas.sambolt.contractor@unnpp.gov](mailto:thomas.sambolt.contractor@unnpp.gov);  
[marlene.gilmore.contractor@unnpp.gov](mailto:marlene.gilmore.contractor@unnpp.gov)

Subject: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

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1240 Isaac Hull Ave  
SE Building 104  
Washington DC 20376-8005

Call me if you have questions Jason

Tks  
Gszeto  
202-781-5834



**From:** Siu, Nathan  
**To:** Coe, Doug  
**Subject:** Re: PSA 2011 - low Sandia attendance  
**Date:** Monday, March 21, 2011 12:01:12 PM

---

Just to clarify I think John was going to complain to Sandia mgmt about their lack of foresight from a KM standpoint, not to NRC.

Sent from NRC BlackBerry

Nathan Siu

(b)(6)

---

**From:** Coe, Doug  
**To:** Siu, Nathan; Coyne, Kevin  
**Sent:** Mon Mar 21 11:57:24 2011  
**Subject:** RE: PSA 2011 - low Sandia attendance

Thanks Nathan – under the circumstances (RIC proximity, budget instability, Japan event response) I think DOE complaints about NRC support for PSA2011 will fall on deaf ears.

**From:** Siu, Nathan  
**Sent:** Monday, March 21, 2011 11:42 AM  
**To:** Coyne, Kevin; Demoss, Gary; Beasley, Benjamin; Salley, MarkHenry; Peters, Sean; Coe, Doug  
**Subject:** PSA 2011 - low Sandia attendance

FYI, John Kelly (formerly of Sandia, now Deputy Assistant Secretary for Nuclear Reactor Technologies in the Office of Nuclear Energy) noticed that Sandia only sent 2 staff (whereas INL sent 6ish). He recognized that NRC wasn't supporting their travel but said "somebody has dropped the ball" anyways. Issue might come back in future discussions with Sandia.

FWIW, it looks like BNL only sent 2 as well.

AAAA/381

**Schaperow, Jason**

---

**From:** Schaperow, Jason  
**Sent:** Tuesday, March 22, 2011 9:35 AM  
**To:** 'kcw@dycoda.com'  
**Cc:** Tinkler, Charles  
**Subject:** RE: SNL Fuku-4 Fuel Pool - MELCOR Results

Hi KC,

Thank you.

Jason

---

**From:** kcw@dycoda.com [mailto:kcw@dycoda.com]  
**Sent:** Tuesday, March 22, 2011 9:29 AM  
**To:** Schaperow, Jason  
**Subject:** Fw: SNL Fuku-4 Fuel Pool - MELCOR Results

Hi Jason,

Here it is.

Kc

Sent on the Sprint® Now Network from my BlackBerry®

---

**From:** "Gibson, Kathy" <Kathy.Gibson@nrc.gov>  
**Date:** Mon, 21 Mar 2011 15:49:15 -0400  
**To:** Tinkler, Charles<Charles.Tinkler@nrc.gov>; 'kcw@dycoda.com'<kcw@dycoda.com>  
**Cc:** 'rogaunt@sandia.gov'<rogaunt@sandia.gov>; Schaperow, Jason<Jason.Schaperow@nrc.gov>; Santiago, Patricia<Patricia.Santiago@nrc.gov>; Adkins, Kristen<Kristen.Adkins@nrc.gov>  
**Subject:** Re: SNL Fuku-4 Fuel Pool - MELCOR Results

Thanks for your recommendation Charlie - and here comes the "but" - as interesting and important as the support to the Japanese is, we also have our regular work to do. My expectation for our staff, as well as our contractors, is that the SOARCA work should continue and be appropriately prioritized with requests related to Japan. Not all requests we get related to Japan are higher priority than SOARCA.

We all recognize and accept that the Japanese situation is having a schedule impact on SOARCA, but I want to minimize that as much as possible.

We can talk more tomorrow when I am not so tired and grouchy.

---

**From:** Tinkler, Charles  
**To:** kcw@dycoda.com <kcw@dycoda.com>  
**Cc:** 'Gauntt, Randall O' <rogaunt@sandia.gov>; Schaperow, Jason; Santiago, Patricia; Gauntt, Randall O <rogaunt@sandia.gov>; Adkins, Kristen  
**Sent:** Mon Mar 21 15:38:22 2011  
**Subject:** RE: SNL Fuku-4 Fuel Pool - MELCOR Results

I recommend you drop all SOARCA work while we are developing a revised/improved Fukushima spent fuel pool source term. This work is in response to NRC OpCenter requests for source terms.

**From:** Casey Wagner [mailto:kcw@dycoda.com]  
**Sent:** Monday, March 21, 2011 3:01 PM  
**To:** Tinkler, Charles  
**Cc:** 'Gauntt, Randall O'; Schaperow, Jason  
**Subject:** RE: SNL Fuku-4 Fuel Pool - MELCOR Results

Hi Charlie,

I will give some thought on how best to do. Right now, the COR package "lower head" models a ¼" steel liner backed by concrete. Perhaps what could be done is to fail the "lower head", which is the ¼" liner and then allow anything that drops through to arrive in the CORCON cavity. I do not know whether the code will allow the CVH volume below the base plate and the "cavity" CVH volume to be the same. I would specify the surface area to be the same as the 1207 assemblies????

I am tied up with SOARCA peer review comments but will try to find some time tonight or tomorrow night.

KC

---

**From:** Tinkler, Charles [mailto:Charles.Tinkler@nrc.gov]  
**Sent:** Monday, March 21, 2011 12:30 PM  
**To:** kcw@dycoda.com  
**Cc:** Gauntt, Randall O; Schaperow, Jason  
**Subject:** RE: SNL Fuku-4 Fuel Pool - MELCOR Results

To the extent you can put in a CORCON activated run without too much effort and let it grind away. Can we let it proceed as a uniform mix (not layered)?

Are you continuing the run the existing case past 21 days? Is that case conducting heat to the liner and floor?

---

**From:** kcw@dycoda.com [mailto:kcw@dycoda.com]  
**Sent:** Monday, March 21, 2011 2:23 PM  
**To:** Tinkler, Charles  
**Subject:** Re: SNL Fuku-4 Fuel Pool - MELCOR Results

These are new ones from the weekend with blockage active.

I did not include CORCON in these calcs. Once in CORCON there are many complication with debris in same spot and shifting between 2 MELCOR packages plus CORCON geometry becomes a consolidated "layer". Nevertheless, CORCON gives you access to many good models.

Do you want to pursue?

KC

Sent on the Sprint® Now Network from my BlackBerry®

---

**From:** "Tinkler, Charles" <Charles.Tinkler@nrc.gov>  
**Date:** Mon, 21 Mar 2011 12:15:05 -0400  
**To:** kcw@dycoda.com<kcw@dycoda.com>  
**Cc:** Gauntt, Randall O<rogaunt@sandia.gov>; Schaperow, Jason<Jason.Schaperow@nrc.gov>  
**Subject:** RE: SNL Fuku-4 Fuel Pool - MELCOR Results

KC

Are the results shown in the plots simply a continuation of the same run provided earlier out to ~17 hrs ?

Can we not activate the CORCON model?

---

**From:** Casey Wagner [mailto:kcw@dycoda.com]  
**Sent:** Monday, March 21, 2011 10:12 AM  
**To:** 'Gauntt, Randall O'  
**Cc:** Schaperow, Jason; Tinkler, Charles; 'Pickering, Susan Y'; Gibson, Kathy; Uhle, Jennifer; ymcclel@sandia.gov  
**Subject:** SNL Fuku-4 Fuel Pool - MELCOR Results

Hi Randy,

Last week I adapted the Peach Bottom whole spent pool model that had been developed to establish boundary conditions for the B5b pool spray mitigation studies. The model correctly reflects many aspects of 1F4 (i.e., Fukushima #3 SFP) including SFP water volume, dimensions, number of assemblies in the pool, their discharge age, and decay heat.

I was able to use the PB decay routines to specify exactly 548 assemblies at 105 days (3.5 kW/assembly) and 659 assemblies at 500 days (1.5 kW/assembly) for a total pool power of 3.03 MW. Note that it is nearly 2 weeks before there would be heatups. Consequently, I conclude the 1F4 pool had a small leak. This is not surprising considering the pool liner is only 3/4" stainless steel and it was rocked by a 9.0 earthquake.

The enclosed MELCOR SFP model does not have all the SOARCA type enhancements on the FP release model but does include accurate flow resistance from the SFP experimental program and breakaway air oxidation derived from Argonne data and benchmarked to SFP experiments. It correctly transitions from steam oxidation to breakaway air oxidation as needed.

Here is an important point. Once debris is transferred to the CAVITY (CORCON) models, you lose all the accurate information on debris bed porosity that had been developed in the MELCOR COR package. As you know, COR gives a detailed representation of the fuel rods, particle sizes, conglomerate, material layering, and surface oxide thickness.

That is all lost when materials are transferred to the CAVITY Package (CORCON), where it suddenly forms a solid layer of dimensions specified by the cavity size. In the enclosed calculations, I did not activate CORCON but show the debris very slowly heats and nearly completely oxidizes. There will be almost no chemical oxidation potential. Furthermore, the decay heat will be extremely low relative to a reactor accident. It is hard to imagine that the low decay heat spread out over the larger dimensions of a SFP rack scale without any chemical energy could sustain a temperature above the concrete ablation temperature and ablate through 6-ft of concrete (my opinion).

The gap releases start at 16.6 hours and the Cs-137 release at 21 days is 11% (i.e., the most current calc had an RN problem, so this is from an earlier one).

Let me know if I could help in any way.

Sincerely,  
KC

---

**From:** Gauntt, Randall O [mailto:rogaunt@sandia.gov]  
**Sent:** Monday, March 21, 2011 5:21 AM  
**To:** 'Jennifer.Uhle@nrc.gov'  
**Cc:** 'Charles.Tinkler@nrc.gov'; Pickering, Susan Y; 'Jason.Schaperow@nrc.gov'; 'Kathy.Gibson@nrc.gov'; 'kcw@dycoda.com'  
**Subject:** Re: Fuku-4 Fuel Pool - MELCOR Results

Looks like it's too cold to ablate concrete. KC's model can probably tell us this - he just did report the corcon results, probably because there were none. But I have only seen these results this morning. I somehow missed this one mail on Friday. Seems very significant.

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**From:** Uhle, Jennifer [mailto:Jennifer.Uhle@nrc.gov]  
**Sent:** Monday, March 21, 2011 05:13 AM  
**To:** Gauntt, Randall O  
**Cc:** Tinkler, Charles <Charles.Tinkler@nrc.gov>; Pickering, Susan Y; Schaperow, Jason <Jason.Schaperow@nrc.gov>; Gibson, Kathy <Kathy.Gibson@nrc.gov>; kcw@dycoda.com <kcw@dycoda.com>  
**Subject:** RE: Fuku-4 Fuel Pool - MELCOR Results

The question Naval reactors is asking is whether the Unit 4 SFP will reach concrete ablation temperatures. Jason is talking to them today. I agree about the fact that RES/Sandia is a great team and we at NRC is trying to get the Federal family to use our source terms.

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**From:** Gauntt, Randall O [mailto:rogaunt@sandia.gov]  
**Sent:** Monday, March 21, 2011 6:50 AM  
**To:** Uhle, Jennifer  
**Cc:** Tinkler, Charles; Pickering, Susan Y; Schaperow, Jason; Gibson, Kathy; kcw@dycoda.com  
**Subject:** RE: Fuku-4 Fuel Pool - MELCOR Results

Sorry Jennifer,  
You might have misunderstood a bit of what I said.

Wagner's latest analysis says the pool smoulders but doesn't get really hot enough owing to starvation of the Zr reaction to really light off. He didn't provide FP release, but one might expect low releases of Cs - all of any remaining noble gas perhaps. I have not seen this latest analysis. The last SFP source term that I sent in was based on a Peach Bottom Analysis and scaled for Fuku-4. The source term for this analysis that KC sent late Friday will be much lower. I was not aware that this calculation had finished.

KC - were there no FP releases?  
Can you send more results?

Randy

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**From:** Uhle, Jennifer [Jennifer.Uhle@nrc.gov]  
**Sent:** Monday, March 21, 2011 3:28 AM  
**To:** Gauntt, Randall O  
**Cc:** Tinkler, Charles; Pickering, Susan Y; Schaperow, Jason; Gibson, Kathy  
**Subject:** RE: Fuku-4 Fuel Pool - MELCOR Results

Randy, no one is questioning NRC's analyses. We have a KAPL representative here at the Ops Center and he indicated that KAPL had done some calculations using MELCOR for the Admiral and they wanted to ask NRC's help in reviewing them. So, I contacted Jason to review the analysis and he said that you guys had done these analyses a few days ago. I asked Jason to talk to KAPL and inform them of our work so they would hopefully use our analyses. I have no idea what happened on the call with KAPL. I certainly believe our team has done the best analysis. I also would never ask KAPL to review any analyses you guys do. That is not what initiated the communication with KAPL. The Admiral and Chairman Jaczko are meeting tomorrow at 8:00 and I am informing the Chairman of our conclusions, not KAPL's. I don't even know what KAPL's were.

Jennifer

**From:** Gauntt, Randall O [mailto:rogaunt@sandia.gov]  
**Sent:** Monday, March 21, 2011 1:17 AM  
**To:** Uhle, Jennifer  
**Cc:** Tinkler, Charles; Pickering, Susan Y  
**Subject:** FW: Fuku-4 Fuel Pool - MELCOR Results

Jennifer,

I gather that you are drawn to evaluation KAPL analyses that were hurriedly put together last week based on cobbled up Grand Gulf decks. We have been developing and validating SFP analyses under the multi-million dollar NRC and now OECD programs to model SFP behavior.

We have worked this for years and the skill to make MELCOR model SFP is not trivial nor accomplished on a Thursday afternoon.

NRC has the best technology and talent at their disposal. NRC RES should not be put in the position of evaluating every Johnny-come-lately analysis out of left field when you are commander of the most elite troops.

Hope you will find the results informative.

We have also prepared SOURCE TERMS for Unit-4 pool accident and analogous MACCS analyses based on your request last Thursday. You have lots of talent and results at your disposal, and I would be more than happy to brief you on that.

I am here all week supporting Dana in his severe accident class, and would be happy to come out and brief/brainstorm this mess. The KAPL analysis is very rudimentary and they had to have second thoughts about sending.

Jennifer - you have paid good money for the best research that there is - make use of it to show leadership that you so deserve.

You can reach me tomorrow: NRC training center (505)2646849, or by e-mail

Don't dump sand!!!!

Use our source terms !!!!!!!

Tell Naval Reactor what the source term is,

You need a briefing, - name your time!!!

Randy

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**From:** Casey Wagner [kcw@dycoda.com]  
**Sent:** Friday, March 18, 2011 1:20 PM  
**To:** Gauntt, Randall O; Charles.Tinkler@nrc.gov; 'Schaperow, Jason'  
**Cc:** McClellan, Yvonne  
**Subject:** Fuku-4 Fuel Pool - MELCOR Results

Randy asked if I would let this calculation continue into severe accident degradation. The model needs a bit of work to convert to 1.8.6 and include latest SOARCA updates but here is the "out-of-the-box" results.

I noticed that debris flow blockage was not on and that probably contributes to the debris coolability.

Let me know if you want anything else.

**From:** Casey Wagner [mailto:kcw@dycoda.com]  
**Sent:** Friday, March 18, 2011 10:28 AM  
**To:** rogaunt@sandia.gov; Charles.Tinkler@nrc.gov; 'Schaperow, Jason' (Jason.Schaperow@nrc.gov)  
**Cc:** ymccllel@sandia.gov  
**Subject:** FW: Fuku-4 Fuel Pool - impact of dry pool -call#3 - 800-501-0843 code (b)(6)

Hi Randy, Charlie, and Jason,

Randy - Sorry to see you were up at 12:36 am.

Enclosed is a pretty good no leak case for Fukushima #4. I was able to use the PB decay routines to specify exactly 548 assemblies at 105 days (3.5 kW/assembly) and 659 assemblies at 500 days (1.5 kW/assembly) for a total pool power of 3.03 MW.

If Fukushima Unit 4 was uncovered in a week, it was not a simple boil-off.

KC

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**From:** Gauntt, Randall O [mailto:rogaunt@sandia.gov]  
**Sent:** Friday, March 18, 2011 12:36 AM  
**To:** Gauntt, Randall O; 'Marquino, Wayne (GE Power & Water)'; 'Hammargren, Benjamin (GE Power & Water)'; andy.lingenfelter@ge.com; Burns, Shawn; Pickering, Susan Y  
**Cc:** 'Casey\_Wagner@comcast.net'; 'Bolger, Francis T. (GE Power & Water)'; 'Ellison, Phillip G (GE Power & Water)'; 'Ginsberg, Robert (GE Power & Water)'; 'Klapproth, James F (GE Power & Water)'; 'Charles.Tinkler@nrc.gov'; 'Madronero, Hernando (GE Power & Water)'; 'kcw@dycoda.com'  
**Subject:** RE: Fuku-4 Fuel Pool - impact of dry pool -call#3 - 800-501-0843 code (b)(6)

Dear Wayne (or anyone at GE!)

It would be of great value to confirm a few things. I think I heard yesterday that the SFP racking at Fukushima-4 had recently gone to high density racking. Can anyone confirm this?

Also, is there any latest best guess as to water level in FU-4 - yesterday NRC Chairman said it was dry; MELCOR says it covered; helicopter flyby says they saw a reflection of the sky in the top-down view. We would say that unless there was a leak, the fuel should only just now be uncovering????

Randy

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**From:** Gauntt, Randall O  
**Sent:** Wednesday, March 16, 2011 11:06 PM  
**To:** 'Marquino, Wayne (GE Power & Water)'; 'Hammargren, Benjamin (GE Power & Water)'  
**Cc:** 'Casey\_Wagner@comcast.net'; 'Bolger, Francis T. (GE Power & Water)'; 'Ellison, Phillip G (GE Power & Water)'; 'Ginsberg, Robert (GE Power & Water)'; 'Klapproth, James F (GE Power & Water)'; 'Charles.Tinkler@nrc.gov'; 'Madronero, Hernando (GE Power & Water)'; 'kcw@dycoda.com'  
**Subject:** RE: Fuku-4 Fuel Pool - impact of dry pool -call#3 - 800-501-0843 code (b)(6)

Wayne,

Did GE get the Sandia reports that were being inquired about? I missed some of the conversations.

Randy

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**From:** Marquino, Wayne (GE Power & Water) [mailto:wayne.marquino@ge.com]  
**Sent:** Wednesday, March 16, 2011 6:15 PM

**To:** Hammargren, Benjamin (GE Power & Water); Gauntt, Randall O  
**Cc:** Casey\_Wagner@comcast.net; Bolger, Francis T. (GE Power & Water); Ellison, Phillip G (GE Power & Water); Ginsberg, Robert (GE Power & Water); Klapproth, James F (GE Power & Water); Charles.Tinkler@nrc.gov; Madronero, Hernando (GE Power & Water); kcw@dycoda.com  
**Subject:** RE: Fuku-4 Fuel Pool - impact of dry pool -call#3 - 800-501-0843 code (b)(6)

Ben - here is a customer for your Origen data

Please send it to Randy Gauntt

Wayne

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**From:** Gauntt, Randall O [mailto:rogaunt@sandia.gov]  
**Sent:** Wednesday, March 16, 2011 7:56 PM  
**To:** Bolger, Francis T. (GE Power & Water); Buchholz, Carol E. (GE Power & Water); Ellison, Phillip G (GE Power & Water); Ginsberg, Robert (GE Power & Water); Klapproth, James F (GE Power & Water); Marquino, Wayne (GE Power & Water); 'Charles.Tinkler@nrc.gov'; Madronero, Hernando (GE Power & Water); Heck, Charles (GE Power & Water); Loewen, Eric (GE Power & Water); Crawford, Douglas C (GNF); 'kcw@dycoda.com'; Upton, Hugh A. (GE Power & Water)  
**Cc:** 'Casey\_Wagner@comcast.net'  
**Subject:** RE: Fuku-4 Fuel Pool - impact of dry pool -call#3 - 800-501-0843 code (b)(6)

Is there any way anyone at GE could provide Sandia TONIGHT an Origen inventory that might approximate the SFP 4 inventory for the 100 day offload? We are trying to run a MACCS analysis for NRC tonight and need isotope mass and curies.

Randy Gauntt

-----Original Appointment-----

**From:** Bolger, Francis T. (GE Power & Water) [mailto:Fran.Bolger@ge.com]  
**Sent:** Wednesday, March 16, 2011 5:37 PM  
**To:** Buchholz, Carol E. (GE Power & Water); Ellison, Phillip G (GE Power & Water); Ginsberg, Robert (GE Power & Water); Klapproth, James F (GE Power & Water); Marquino, Wayne (GE Power & Water); Charles.Tinkler@nrc.gov; Madronero, Hernando (GE Power & Water); Heck, Charles (GE Power & Water); Loewen, Eric (GE Power & Water); Gauntt, Randall O; Crawford, Douglas C (GNF); kcw@dycoda.com; Upton, Hugh A. (GE Power & Water)  
**Cc:** Casey\_Wagner@comcast.net  
**Subject:** Fuku-4 Fuel Pool - impact of dry pool -call#3 - 800-501-0843 code (b)(6)  
**When:** Wednesday, March 16, 2011 6:30 PM-7:30 PM (UTC-07:00) Mountain Time (US & Canada).  
**Where:** ATC2 CR 25

**Schaperow, Jason**

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**From:** Schaperow, Jason  
**Sent:** Tuesday, March 22, 2011 8:19 AM  
**To:** Gibson, Kathy  
**Cc:** Chang, Richard; Tinkler, Charles; Santiago, Patricia  
**Subject:** RE: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

My understanding is that Pat and Richard are handling modifying the contract.

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

**From:** Gibson, Kathy  
**Sent:** Monday, March 21, 2011 3:04 PM  
**To:** Schaperow, Jason  
**Cc:** Santiago, Patricia  
**Subject:** Re: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

I hope we modified the contract since this is not SOARCA related.

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

**From:** Schaperow, Jason  
**To:** Gibson, Kathy  
**Sent:** Mon Mar 21 14:53:51 2011  
**Subject:** RE: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

We are paying for Sandia's time under the SOARCA project.

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

**From:** Gibson, Kathy  
**Sent:** Monday, March 21, 2011 2:49 PM  
**To:** Schaperow, Jason; Santiago, Patricia; Lee, Richard  
**Cc:** Wagner, Katie; Tinkler, Charles; Scott, Michael; Elkins, Scott; Chang, Richard  
**Subject:** Re: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

Who is paying for Sandia's time? Is this work something we would want done anyway?

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

**From:** Schaperow, Jason  
**To:** Santiago, Patricia; Lee, Richard  
**Cc:** Wagner, Katie; Tinkler, Charles; Gibson, Kathy; Scott, Michael; Elkins, Scott; Chang, Richard  
**Sent:** Mon Mar 21 14:44:35 2011  
**Subject:** RE: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

SNL is supporting this request from NR. They worked with Jennifer and me late last night and today. I plan to talk with KC Wagner shortly, as we will need his help in answering most of the questions below.

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

**From:** Santiago, Patricia  
**Sent:** Monday, March 21, 2011 2:14 PM  
**To:** Schaperow, Jason; Lee, Richard  
**Cc:** Wagner, Katie; Tinkler, Charles; Gibson, Kathy; Scott, Michael; Elkins, Scott; Chang, Richard  
**Subject:** Re: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

When the action is closed we also need to alert katie and richard. Also u should cc me as we realize this work is dynamic so that I know what work is being done or requested. Is SNL doing anything since that requires u also cc richard chang as pm so he knows who is directing who at his contractor. we also need to let him know the extent of snl support since there is only 100k for this support presently.

Thanks

Sent from an NRC BlackBerry

Patricia Santiago

(b)(6)

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

From: Schaperow, Jason

To: Lee, Richard

Cc: Wagner, Katie; Tinkler, Charles; Szeto, Gordon CIV SEA 08 NR (b)(6) Santiago, Patricia

Sent: Mon Mar 21 13:23:17 2011

Subject: FW: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

Hi Richard,

Last night, when Jennifer Uhle was in the Ops Center, she directed me to coordinate with Naval Reactors (NR) who had some questions regarding spent fuel pool accident progression analysis for Fukushima Daiichi unit 4. Also, she sent NR the latest results of KC's spent fuel pool calculations for Fukushima Daiichi unit 4. I coordinated with NR last night and again this morning and, as a result, they forwarded me the information request below. I am forwarding it to you, as it is my understanding that you are handling and overseeing information requests for our division.

Thanks,  
Jason

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

From: Szeto, Gordon CIV SEA 08 NR (b)(6)

Sent: Monday, March 21, 2011 1:15 PM

To: Schaperow, Jason

Cc: Roberts, Thomas E CIV SEA 08 NR; Steinhurst, Laurel A CIV SEA 08 NR; Herman, David R CIV NAVSEA, 08; Vavoso, Thomas G CIV NAVSEA, 08; Bell, Stephen T CIV SEA 08 NR; Steele, Jeffrey M CIV SEA 08 NR; robert.fontaine.contractor@unnpp.gov; thomas.sambolt.contractor@unnpp.gov; marlene.gilmore.contractor@unnpp.gov

Subject: NR Program Questions on NRC BWR MELCOR Spent Fuel Assessment

Jason

Below are questions from NR program on the subject from 1015 call 21 Mar

11-

1. What is the decay heat assumed in the model. How is the fuel and its decay heat distributed radially (temperature plots indicate similar behavior for the "fresh" and "older" fuel). What are the decay heat assumptions for the "recently discharge" and "older discharged" fuel?

2. Clad temperature plots indicate complete clad relocation at about 17.6 days. What is the failure mechanism modeled in MELCOR?

(Highest temperature is too low to be melting. All axial elevations regardless of temperature fail at the same time.)

3. What is the fraction of zircaloy that has oxidized? The hydrogen generation plot shows increase of hydrogen generation due to zircaloy stopping at about 17.6 days (consistent with relocation) and no hydrogen generation after that.
4. What is the nodalization of the MELCOR model?
5. Why did the calculation stop at 18.2 Days?
6. Are there any results available from CAV or CVH Packages?
7. In the model, is the depleted oxygen being replenished from outside the building?
8. On the "hydrogen generation" curve, all of the hydrogen generation appears to stop prior to relocation of the core. What is the reason for the stopping of hydrogen generation?
9. What is the distribution of the older vs newer fuel in the pool and how was it modeled in the analysis? Can NRC contact GE spent fuel personnel to get insight into how Daiichi plants may distribute fuel?
10. Reports - please provide copies of the 5 reports that were given to GE on this analysis. Also, provide a bibliography of the other relevant reports for the BWR spent fuel pool analysis.

The reports should be provided the Mr. Fontaine (KAPL) at the email address above, Mr. Sambolt (Bettis), and Mr. Szeto at NR. NR mailing address for paper copy is:

(b)(6)

Call me if you have questions Jason

Tks  
Gszeto  
202-781-5834  
Naval Reactors

**Barkley, Richard**

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**From:** Barkley, Richard  
**Sent:** Tuesday, March 22, 2011 1:49 PM  
**To:** Couret, Ivonne; Mitylmg, Viktoria; Rakovan, Lance; Ryan, Michelle; Salter, Susan; Screnci, Diane; Steger (Tucci), Christine; Virgilio, Rosetta  
**Subject:** FW: Good Discusssion Today - Thanks for Such a Group Effort!!

[http://www.mext.go.jp/component/english/\\_icsFiles/afieldfile/2011/03/22/1303997\\_2219.pdf](http://www.mext.go.jp/component/english/_icsFiles/afieldfile/2011/03/22/1303997_2219.pdf)

Take a look at the cute Japanese radiological pictorial graph on Page 5 – We should use something like this going forward.

This information was forwarded from someone in Research, and has radiological data from Japan post-Fukushima.

At least the Japanese have been lucky in one big way – The wind at Fukushima Daiichi has been almost always out to sea.

Most of the readings outside of the 20 km radius around the plant (~12 miles) are less than 10 microsieverts per hour (= to 1 millirem/hour).

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**From:** Carpenter, Gene  
**Sent:** Tuesday, March 22, 2011 1:27 PM  
**To:** Barkley, Richard; Adelstein, Patricia; Anderson, Brian; Bafundo Crimm, Nina; Bailey, Kenneth; BowdenBerry, Elva; Burton, William; Daniel, Richard; Fehst, Geraldine; Fuller, Michael; Glenn, Nichole; Heck, Jared; Kotra, Janet; Krsek, Robert; Leslie, Bret; Maier, Bill; Meeting\_Facilitation Resource; Mroz (Sahm), Sara; Rakovan, Lance; Rivera, Alison; Rodriguez, Michael; Salter, Susan; Smith, George; Stuyvenberg, Andrew; Wright, Lisa (Gibney)  
**Subject:** RE: Good Discusssion Today - Thanks for Such a Group Effort!!

FYI:

This is what our Japanese equivalent (NISA) is saying: <http://www.nisa.meti.go.jp/english/index.html>

Gene

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**From:** Barkley, Richard  
**Sent:** Tuesday, March 22, 2011 13:26  
**To:** Adelstein, Patricia; Anderson, Brian; Bafundo Crimm, Nina; Bailey, Kenneth; Barkley, Richard; BowdenBerry, Elva; Burton, William; Carpenter, Gene; Daniel, Richard; Fehst, Geraldine; Fuller, Michael; Glenn, Nichole; Heck, Jared; Kotra, Janet; Krsek, Robert; Leslie, Bret; Maier, Bill; Meeting\_Facilitation Resource; Mroz (Sahm), Sara; Rakovan, Lance; Rivera, Alison; Rodriguez, Michael; Salter, Susan; Smith, George; Stuyvenberg, Andrew; Wright, Lisa (Gibney)  
**Subject:** Good Discusssion Today - Thanks for Such a Group Effort!!

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

AAA/384

The above link takes you to the NRC's external website location for the events related to Japan. The agency has gone from having almost nothing on our website on Fukushima to a very healthy list of Frequently Asked Questions. I suspect the materials provided to the Regions in advance of their Annual Assessment Meetings will rely heavily on this material.

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

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**From:** LIA02 Hoc  
**Sent:** Tuesday, March 22, 2011 10:52 PM  
**To:** LIA02 Hoc; LIA03 Hoc; Fragoyannis, Nancy; Doane, Margaret; Mamish, Nader; Abrams, Charlotte; Wittick, Brian; Afshar-Tous, Mugeh; 'ShafferMR@state.gov'; Bloom, Steven; Schwartzman, Jennifer; Tobin, Jennifer; Mayros, Lauren; Jones, Andrea; English, Lance; Smirolodo, Elizabeth; Young, Francis; Henderson, Karen; Ramsey, Jack; Shepherd, Jill; Baker, Stephen; Emche, Danielle; Stahl, Eric; LIA07 Hoc  
**Subject:** TRANSITION REPORT 3/22 - 2300

~~OFFICIAL USE ONLY~~

**TRANSITION REPORT FOR MARCH 22, 2011 - 2300**  
*Danielle and Lauren transitioning to Mugeh and Eric*

#### UPDATES DURING THIS SHIFT

- **Information from Call with Kirk and Brooke.** Will have meetings today with NISA, naval reactors, and TEPCO. There is also a late cabinet meeting. Read outs from phone calls with Chuck discussed that the team has reached a turning point where their interactions with Japanese entities have begun to flow much more naturally and easily. He discussed they are moving into a regular rhythm of meetings and that they have exited the "storming stage," entered into the "forming phase," and are looking toward the "norming phase." He also reported the priorities are cooling the core and pools, getting power back and getting fresh water.
- **There is a phone call with TEPCO and the ground team at 11 PM. Interpreter should sit in with RST.**
- **Japan Lessons Learned.** ET inquired about OIP plans (existing or future) to rehire Bruce Mallet. They want him to work on Japan lessons learned. They mentioned he might be doing assistance for OIP. We inquired with Jack. Report to the ET as soon as we get an answer. In particular, it was a question from Marty Virgilio.
- **Call with Indonesian Embassy.** The call was very successful. As suspected concerns were more about big picture plans for nuclear power, in light of recent events. Don Cool discussed our assessments for public health and that we were very conservative. They asked him, "Does this mean that Indonesia should not pursue nuclear power?" Cool replied this incident should not produce reactionary decision making and that NRC will do its own assessment for the US, as should every regulator and country.
- **Interagency Call.**
  - USG Working on harmonizing plume data with GOJ and getting TEPCO's view on pumping system in Ukoda.
  - NISA informed USG team that it has filled Unit 2 spent fuel pool and that it continues to convert reactors 1 – 3 from sea water to regular water. Cement trucks continue to pump water to units 2 and 3 spent fuel pool. USG not sure if this is working.
  - There have been useful interagency meetings with GOJ. The USG message is that we are in Japan to cooperate with GOJ. Message was well received and USG team feels that cooperation with GOJ is improving. Team is having more face-to-face meetings, but the USG wants better clarity on GOJ long-term strategy.
  - Chuck warned that if anyone receives plant data, to confirm this data with multiple sources, as the instruments in the plants could be highly unreliable.
  - Next call at 9:30 PM EST March 23rd.
- **NRC Relief Team to Japan.**
  - Action: Ensure that all flight information is captured in the spreadsheet on the LIA03 computer. We have started to receive some initial information about return dates. These should be populated on the Lia03 travel sheet.

- Bios were shared with Japan contacts for coordination on the ground.
  - Dosimetry: Lia03 sent an email to LiaisonJapan (original team) asking for them to email back their dosimetry numbers. The initial team sent over was in such a rush that the Headquarters Radiation Safety Officer, John O'Donnell, never recorded which dosimeter was assigned to which staff member. If dosimeter numbers (on the back) are received directly to the international liaison desks they should be forwarded to John O'Donnell and entered into a word document on LIA03. The RSO has also asked original team members to indicate whether they intend to stay in Japan past the end of the month. If they do, then they will need to have their dosimeters replaced, as the ones they have now are only for use until the end of the month. If an original team member indicates that they intend to stay past the end of the month, we need to inform the RSO and ensure that an outgoing team member bring that person a replacement dosimeter.
  - We determined that HQ staff will pick up their international blackberries at the International Liaison desk by 1 PM on Wednesday, at which point their domestic blackberries will be deactivated. We emailed Robert Heard, OIS, to let him know and we cc'ed regional staff and included a reminder that regional staff will also have their blackberries discontinued at that time. It was recommended to region staff that they should find another way to check email or stay connected if necessary, until they land in Tokyo and receive blackberries from HQ staff. Action: When HQ staff picks up blackberries, designate one regional staff's blackberry to each headquarters staff (to be provided upon landing in Tokyo). Record in the table the phone number for all distributed blackberries. We also asked for their personal cell phone numbers in case of emergency and if received these should be populated on the table in the phone numbers column:
  - Checklists for returning travelers: Send to Michelle Evans when complete. List was started, saved to LIA02 desktop "RETURN check list," and is should be updated over the next few days as ideas and input is provided. One issue may be finding a way to have everyone debriefed by all the interested parties without having a cacophony of meetings.
- **Current NRC Japan Team.**
    - Travelers should go to the Health Center to pick up KI tablets.
    - Possible extension of travel orders: We have contacted the Japan Team to find out if any members of the original team plan to remain in Japan beyond March 31. Information is needed because travelers may require supplemental travel orders. We've asked them to reply to LIA02 and LIA03 with this information. Action: Please inform Mary Matheson if you get any affirmative replies to this inquiry.
    - Dosimetry: Dosimeters need to be given to the team members and located are in drawer at LIA03 location. Regional travelers will receive their dosimetry from the Region. Notes: Dosimetry should only be released directly to the travelers. They need to fill out the paperwork and leave it with the international liaison to return to NRR (Undine Shoop). They should take the back page which is instructions for use.
    - Cris Brown has advised that, rather than asking the relief team to carry additional satellite phones to Japan, the current team should turn ownership of the two satellite phones already over there to a new member of the relief team. The travelers have been advised to work with the current team to determine who should take ownership, then provide that name to Cris Brown and LIA02/LIA03. Action: When name is provided, ensure that Cris Brown has it.
  - **Request from U.S. Forces Japan.** LT Director received a request for specific reactor information from USFJ in preparation for some bilaterals they are having tomorrow. Int'l liaisons gave NRC team in Japan a heads up that the request had come in. LT Director replied to the request indicating that we have a team in Japan and that, rather than duplicate the requests the USG is making of the Japanese, it would be more efficient for USFJ to coordinate with us. LIA02 and 03 were provided as email addresses for USFJ to communicate with. Action: You may receive a request for information from USFJ that you would then coordinate with our team in Japan.
  - **Request from IAEA.** Mike Modro of the IAEA reached out to Jen Schwartzman seeking NRC assistance with source term-related analysis. In particular, they are looking for severe accident management procedures for

BWRs. Jen passed the request to the PMT to see what assistance we can provide, and provided Mike with a copy of NUREG-1465, "Accident Source Terms for Light-Water Power Plants," in the meantime.

- **Industry Japan Team.** Mr. Al Hochevar from U.S. INPO will be prioritizing requests and organizing the U.S. industry response to events in Japan. He would like to work with Chuck, Dan and the team to get contacts, access and insights to expedite the U.S. industry response. Kirk and Brooke will also work on potential meetings with JANTI, JAEA, and other power companies, like Japan Atomic Power. Mr. Hochevar's contact information follows is: Mobile: (b)(6) e-mail: HochevarAR@INPO.org; WANO Tokyo: (b)(6) Mr. Hochevar departs Atlanta around noon (EDT) today (Tuesday). He will land in Japan around 5pm (JST) 4am (EDT) on Wednesday at Narita.

## FUTURE ACTIONS

- **Japan Relief Team.**
  - Ops Center Info. Tech. staff delivered a lap top for Rob Taylor. He will pick it up during the day on Wednesday. It is in the overhead compartment of the Lia02 desk. Also give Rob Taylor the calling cards located in the drawer of LIA03.
  - Kirk reported that the Embassy allows laptops in the premises, contrary to what was previously considered to be the case. Based on this, some of the team going over has expressed interest in a laptop. Requests should be forwarded to Karen Jackson and ET02.hoc@nrc.gov.
- **IAEA Coordination.** The ET had tasked us with understanding the role of the IAEA's Incident and Emergency Centre (IEC) and what the extent of their role is if Japan does not make a formal request to them under the Assistance Convention. We suggested that the IEC serve as a clearinghouse, keeping track of all requests for assistance from Japan, all offers to assist from other countries, who has provided what, and whether it satisfies the requests. Mark Shaffer met with Elena Buglova, Acting Director of the IEC, at approximately 0600 EDT. He provided a write-up of that meeting (in LIA02 and 03 email inboxes) to Margie. Subsequently, Ms. Buglova wrote to thank Mark for the meeting and she posted the current spreadsheet of what IAEA is tracking on ENAC (hard copy on LIA02 desk). There is still an open task on the task tracker, but we have tried to manage expectations about the extent to which NRC can "complete a task" on this subject. We have told the LT Director that OIP will keep the ET informed of developments on this issue. Action: Continue to follow this and expect questions from ET and LT Director.
- **International requests for information.**
  - AIT/TECRO (Taiwan) has requested a briefing on the 50-mile evacuation zone and the plume modeling. Danielle Emche is handling this request. Plans to meet with AIT/TECRO on Thursday.
- **Translators.** The translators are working very hard but we are starting to notice duplication of efforts. This is largely due to shift changes here and in the technical teams that results in a lack of knowledge/awareness that previous versions of a document (especially monitoring data) were already translated. The result is that multiple translators are working on the same document or working to translate an entire document when a previous version was already provided to the appropriate team and only the numbers have been updated. Also, translators are often working for a long time on a document which has subsequently been published in English. Action 1: Please monitor NISA's English language site and ENAC and make sure that you inform the translators when a document is posted in English, so that if they are working on it they can stop and move on to something else. Action 2: Please ensure that the PMT and RST are keeping the translated data we provide them, in particular if a document can serve as a "key" to interpreting future data.
- **Daily calls with UK/France/Canada.** Calls will take place tomorrow, 3/22, at 0930 with RST and at 1500 with PMT to discuss reactor-related and radiation-related information, respectively, with regulatory representatives from these three countries. Everyone should call into the HOO to be connected.

- **Daily NRC Japan Team – RST/PMT Call.** Next call scheduled for 0300. RST and PMT have been notified of the call and international liaison should plan on participating (Brooke and Kirk don't necessarily participate). All parties should call into 301-816-5120 and use pass-code (b)(6)
- **21:30 Interagency Call.** Next call will be 3/23 at 21:30 EST.

#### DAILY ACTIONS/REMINDERS

- Information pertinent to the team in Japan can be forwarded to new email group, "Liaison Japan," in Outlook.
- International updates must now be sent to LIA07 (to be put in the HOO Status Update) before the end of every shift as well as posted on the LT status board (different than the LT Log).
- 11 PM – 7 AM shift is responsible for the summary call with Kirk and Brooke, scheduled daily at 0500 EST unless rescheduled, and subsequent write-up of one-pager for Margie. Margie reminds us that the write-up should not contain technical details, which are already captured in other reports, and should be marked "Official Use Only – Foreign Government Information."
- The 11pm-7am shift is responsible for send all emails from the previous day to the FOIA email address ([FOIA Response.hoc@nrc.gov](mailto:FOIA_Response.hoc@nrc.gov)).
- Kirk and Brooke requested that the international team to sit in on calls with the ET and Chuck to take notes and provide a short summary of what was discussed via email.
- Reminder to include names on watch bill emails and inform Brooke and Kirk when shift changes.
- Prior to any international call you set up, please make sure you contact the HOOs to let them know that you are going to have the international call.
- Reminder to Keep Mark Shaffer in-the-loop. at [shaffermr@state.gov](mailto:shaffermr@state.gov), regardless of time of day, regardless of whether he is in the office or asleep. Especially cc Mark on all communication to IAEA.

~~OFFICIAL USE ONLY~~

**From:** [Breskovic, Clarence](#)  
**To:** [Breskovic, Clarence](#)  
**Subject:** Fukushima: Panel discussion by Wisconsin Institutes for Discovery (March 22)  
**Date:** Wednesday, March 23, 2011 7:56:31 AM

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Online video (1.45 hrs): <http://mediasite.ics.uwex.edu/mediasite5/Viewer/?peid=aa0340142f4448c3969ee005e68331b11d>

Description:

"This panel discussion provides a technical and medical background to the emerging situation at Japan's damaged Fukushima Daiichi nuclear plant. Experts in nuclear engineering and medical physics will describe the chain of events that led to damage at the nuclear plant and what the risks are to public health of radiation releases."

About the Wisconsin Institutes for Discovery:

<http://discovery.wisc.edu/home/discovery/about-us/about-us.cmsx>

I can't vouch for the scientific or news value of this event but I am sure many others will follow.

Clarence Breskovic  
International Policy Analyst  
U.S. Nuclear Regulatory Commission  
Office of International Programs  
11555 Rockville Pike  
Rockville, MD 20852, USA  
Tel: 1-301-415-2364  
Fax: 1-301-415-2395  
Alternate Email: (b)(6)

AAAA/386

**From:** [Juliana Hoskinson](#)  
**To:** [Ledford, Joey](#); [Brenner, Eliot](#); [nrc-editors@bulletinnews.com](mailto:nrc-editors@bulletinnews.com)  
**Cc:** [Hayden, Elizabeth](#); [Harrington, Holly](#)  
**Subject:** RE: Behind Paywall  
**Date:** Wednesday, March 23, 2011 8:07:42 AM  
**Attachments:** [image001.png](#)

---

You're very welcome, Joey.

**Juliana Hoskinson**

Director of Product Management, Bulletin News  
11190 Sunrise Valley Drive, Suite 130  
Reston, VA 20191  
(703) 483-6192 (direct)  
(b)(6)  
(703) 483-6112 (fax)

**From:** Ledford, Joey [mailto:[Joey.Ledford@nrc.gov](mailto:Joey.Ledford@nrc.gov)]  
**Sent:** Wednesday, March 23, 2011 8:07 AM  
**To:** Juliana Hoskinson; Brenner, Eliot; [nrc-editors@bulletinnews.com](mailto:nrc-editors@bulletinnews.com)  
**Cc:** Hayden, Elizabeth; Harrington, Holly  
**Subject:** RE: Behind Paywall

Thanks to all.

**Joey Ledford**  
**Public Affairs Officer**  
**Region II -- Atlanta, Ga.**

**O: 404.997.4416**

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

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



**From:** Juliana Hoskinson [mailto:[jhoskinson@bulletinnews.com](mailto:jhoskinson@bulletinnews.com)]  
**Sent:** Wednesday, March 23, 2011 7:44 AM  
**To:** Brenner, Eliot; [nrc-editors@bulletinnews.com](mailto:nrc-editors@bulletinnews.com)  
**Cc:** Hayden, Elizabeth; Harrington, Holly; Ledford, Joey  
**Subject:** RE: Behind Paywall

Hi Eliot,

Thanks for the story. We had already begun the publishing process when you sent it. We have found the full text and we're updating the briefing and clips with the material.

Best,

AAAA/387

Juliana.

**Juliana Hoskinson**

Director of Product Management, Bulletin News

11190 Sunrise Valley Drive, Suite 130

Reston, VA 20191

(703) 483-6192 (direct)

(b)(6)

(703) 483-6112 (fax)

**From:** Brenner, Eliot [mailto:Eliot.Brenner@nrc.gov]  
**Sent:** Wednesday, March 23, 2011 7:27 AM  
**To:** nrc-editors@bulletinnews.com  
**Cc:** Hayden, Elizabeth; Harrington, Holly; Ledford, Joey  
**Subject:** FW: Behind Paywall

Any chance you can lay hands on this one?

**From:** Ledford, Joey  
**Sent:** Wednesday, March 23, 2011 7:25 AM  
**To:** Brenner, Eliot; Hayden, Elizabeth; Harrington, Holly  
**Subject:** Behind Paywall

Eliot, this story resulted from the Graham tour yesterday, wasn't in the clips and is behind the Greenville News' paywall. Can you ask them to retrieve it?

<http://www.greenvilleonline.com/article/20110323/NEWS/303230031>

The lead is all there is online:

## **Nuclear industry works to sustain rebirth**

**Graham tours Oconee, fears Japan crisis will kill reactor renaissance**

**BY ANNA SIMON • CLEMISON BUREAU • PUBLISHED: MARCH 23, 2011 2:00 AM**

The nuclear industry in the United States and its allies have launched a campaign to reassure the public and keep alive a budding renaissance of new reactor construction as Japan struggles to control a damaged nuclear complex.

**Joey Ledford**

**Public Affairs Officer**

**Region II -- Atlanta, Ga.**

**O: 404.997.4416**

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

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



**From:** [Juliana Hoskinson](#)  
**To:** [Brenner, Eliot](#)  
**Cc:** [Hayden, Elizabeth](#); [Harrington, Holly](#); [Ledford, Joey](#); [nrc-editors@bulletinnews.com](mailto:nrc-editors@bulletinnews.com)  
**Subject:** RE: Behind Paywall  
**Date:** Wednesday, March 23, 2011 8:04:27 AM  
**Attachments:** [image001.png](#)  
[NRCSummary110323.doc](#)  
[NRCSummary110323.pdf](#)  
[NRCClips110323.pdf](#)  
[NRCClips110323.doc](#)

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Hello everyone,

The briefing and clips files have been updated online. I'm attaching the files here as well.

Please let us know if there's anything else we can do.

Best regards,  
Juliana.

**Juliana Hoskinson**  
Director of Product Management, Bulletin News  
11190 Sunrise Valley Drive, Suite 130  
Reston, VA 20191  
(703) 483-6192 (direct)  
(b)(6) (cell)  
(703) 483-6112 (fax)

**From:** Juliana Hoskinson [<mailto:jhoskinson@bulletinnews.com>]  
**Sent:** Wednesday, March 23, 2011 7:44 AM  
**To:** 'Brenner, Eliot'; [nrc-editors@bulletinnews.com](mailto:nrc-editors@bulletinnews.com)  
**Cc:** 'Hayden, Elizabeth'; 'Harrington, Holly'; 'Ledford, Joey'  
**Subject:** RE: Behind Paywall

Hi Eliot,

Thanks for the story. We had already begun the publishing process when you sent it. We have found the full text and we're updating the briefing and clips with the material.

Best,  
Juliana.

**Juliana Hoskinson**  
Director of Product Management, Bulletin News  
11190 Sunrise Valley Drive, Suite 130  
Reston, VA 20191  
(703) 483-6192 (direct)  
(b)(6)  
(703) 483-6112 (fax)

AAAA/388

**From:** [Jean.GAUVAIN@oecd.org](mailto:Jean.GAUVAIN@oecd.org)  
**To:** [yhhah@kins.re.kr](mailto:yhhah@kins.re.kr)  
**Cc:** [wgpnews@oecd-nea.org](mailto:wgpnews@oecd-nea.org)  
**Subject:** [wgpnews] RE: [Fukushima] KINS Press Conference 22 March 2011: why not sending it to flashnews??  
**Date:** Wednesday, March 23, 2011 4:22:33 AM  
**Attachments:** [image001.png](#)

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Yeonhee,

Thank you very much for this text.

I suggest that you send the English text to flashnews (e-mail to: [wgpnews@oecd-nea.org](mailto:wgpnews@oecd-nea.org) ) in putting in the subject line of your e-mail something like "Fukushima event – KINS Press Conference 22 March 2011" or equivalent

In the body of the message you just need two lines to recall that our thoughts are with Japan and to introduce the attachment ... and also to ask for similar texts in the other countries outside Japan to be sent via flashnews

As WGPC Chair this will be a good incentive to the other WGPC members to use flashnews

Best Regards

Jean Gauvain - NEA/NSD - Phone +33 1 45 24 10 52 - (b)(6)

**From:** Yeonhee Hah [mailto:[yhhah@kins.re.kr](mailto:yhhah@kins.re.kr)]  
**Sent:** Wednesday, March 23, 2011 08:54  
**To:** GAUVAIN Jean, NEA/SURN  
**Cc:** YOSHIMURA Uichiro, NEA/SRAN; REIG Javier, NEA/SURN; ; ;  
**Subject:** KINS Press Conference

Jean,

Let me share the KINS press conference information with you. Yesterday it was held in Seoul Press Center led by KINS President, Dr. Choul Ho Yun with foreign journalists. As attached, one article is in English, the other one in Japanese (sorry, this is only for Mr. Yoshimura!).

I will keep you informed of the follow up event, if any.

Best regards,  
Yeonhee

AAAA/389

35

Sheehan, Neil

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From: Sheehan, Neil  
Sent: Wednesday, March 23, 2011 11:35 AM  
To: 'Glanz, James'  
Subject: RE: Japan reactor events

Jim,

I received them and have forwarded them to HQs staff. I have not heard an ETA for responses yet.

Neil  
NRC Public Affairs  
(610) 337-5331

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

From: Glanz, James [mailto:glanz@nytimes.com]  
Sent: Wednesday, March 23, 2011 11:24 AM  
To: Sheehan, Neil  
Subject: RE: Japan reactor events

Neil,

Just confirming that you received these questions. Any idea on ETA?

Jim

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

From: Glanz, James  
Sent: Tuesday, March 22, 2011 3:18 PM  
To: Sheehan, Neil  
Cc: Glanz, James  
Subject: RE: Japan reactor events

Neil,

Thanks for agreeing to consider a few questions. I've tried to lay out exactly what we are seeking in these four questions, including our best information so far. I am confident that NRC can correct or confirm (and, if it seems appropriate and you have the time, expand on) what we have been told in a very fluid few days of reporting. I will be working on this at least through tomorrow but appreciate whatever you can do in terms of expediting the request, given that we first contacted you last week. Let me know if I can clarify any of this.

Jim

Jim Glanz  
The New York Times  
212 556 7545

QUESTIONS ON FUKUSHIMA DAIICHI PLANT:

AAAA/390

-- What is NRC's best timeline of the first hour after the earthquake hit. E.g., are there any further details beyond the presumed fact that the emergency generators automatically kicked in and then shut down some time after the tsunami struck, and what is NRC's best understanding of why the generators tripped out (electrical shorts, say, or cooling issues).

-- We have been told that TEPCO is reporting to professional organizations that the maximum ground shaking at Unit 3 was approximately 0.5g and as such exceeded design criteria for safe shutdown (SSE) by 20 to 25 percent. Is this correct as far as you know and can you add any further information you have on this topic.

-- To follow up on the previous question, what level of ground shaking, in units of g, was the Fukushima Daiichi plant designed to withstand and still go into safe shutdown mode (SSE) at the time of the March 11 earthquake? Here is what I have been told, and I would very much appreciate confirmation or correction: that the plant was originally designed to withstand 0.18g and was upgraded to somewhere between 0.24g and 0.46g, according to differing sources. Of course, the figures could be different for the different units. Could you provide your best understanding of the precise figures. We would like to have a precise figure for at least Unit 3 at the time of the quake.

-- How much above design criteria (in the sense above) was the March 11 tsunami, and in general, was the fault that produced the earthquake and tsunami taken into account in the risk assessment for the plant?

Thanks again.

---

From: Sheehan, Neil [Neil.Sheehan@nrc.gov]  
Sent: Tuesday, March 22, 2011 2:35 PM  
To: Glanz, James  
Subject: RE: Japan reactor events

It will.

From: Glanz, James [mailto:glanz@nytimes.com]  
Sent: Tuesday, March 22, 2011 2:30 PM  
To: Sheehan, Neil  
Subject: RE: Japan reactor events

Neil,

I am about to get on with one of the relevant companies, but when I'm done I'll sharpen up the questions with some information - some not entirely definitive, unfortunately, which is why I'm requesting NRC's expertise - that I've gathered in the past few days. Would that work for you?

Thanks, Jim

From: Sheehan, Neil [mailto:Neil.Sheehan@nrc.gov]  
Sent: Tuesday, March 22, 2011 1:48 PM  
To: Glanz, James  
Subject: RE: Japan reactor events

Jim,

We want to be as responsive as we can. I will say, though, the it's been incredibly busy, with requests coming in from news organizations all over the globe.

Are the questions you're seeking help with still those four at the bottom of this e-mail?

Neil Sheehan  
NRC Public Affairs

[Cell: (b)(6) ] ek6

From: Glanz, James [mailto:glanz@nytimes.com]  
Sent: Tuesday, March 22, 2011 1:29 PM  
To: Sheehan, Neil  
Subject: RE: Japan reactor events

Neil,

IAEA is very much out of the information loop at the moment. We've learned time and again that the distrust bred by lack of good information on this kind of disaster ends up doing as much, if not more, damage than the incident itself. I can easily focus my questions so that they would take one of your experts no more than a few minutes to respond to. I'm talking four or five questions on issues that are in the absolutely forefront of your folks' attention at the moment. I'd like to appeal to NRC to help us get this story right in the face of the usual issues with this sort of thing among your beleaguered colleagues in Japan. I hope that as the most important and informed U.S. institution on this issue, you will help us get the story straight.

Incidentally, a peripheral objection - your colleague put me off with less than good humor by asking for written questions, and then you refused to consider the questions. I understand that NRC, to its credit, is mobilized to help the Japanese, but surely the usual rules of collegiality still apply among those of us in the information business.

Sincerely, Jim Glanz  
The New York Times  
212 556 7545

From: Sheehan, Neil [mailto:Neil.Sheehan@nrc.gov]  
Sent: Friday, March 18, 2011 10:11 AM  
To: Glanz, James  
Subject: re: Japan reactor events

Jim,

We're not in a position to respond to these kinds of questions right now. Our focus is on monitoring the events involving the reactors and providing technical assistance to the Japanese on how to address the numerous challenges they're confronting. We have 11 technical experts in Japan working on this front and our Operations Center is being staffed 24-7 to provide additional resources.

A good source of information on the specifics of the Japanese reactors is the International Atomic Energy Agency (IAEA), including its web site. For example, here's the information on Unit 1 there: <http://www.iaea.org/cgi-bin/db.page.pl/pris.pr deta.htm?country=JP&site=FUKUSHIMA-DAIICHI&units=&refno=5&link=HOT&sort=&sortlong=Alphabetic> .

All of the Japanese reactors involved in the emergency are boiling-water reactors. GE developed the BWR design.

Neil Sheehan  
NRC Public Affairs  
(301) 816-5107

From: Glanz, James [mailto:glanz@nytimes.com]<mailto:[mailto:glanz@nytimes.com]>

Sent: Friday, March 18, 2011 12:23 AM

To: OPA Resource

Cc: Kammerer, Annie; Glanz, James

Subject: questions from The New York Times

It was requested that we submit questions in writing on our story regarding the seismic preparedness of the Fukushima Daiichi nuclear power plant. See brief questions below. I hope that you will advise that you have received questions and likely time frame for responses. If you can respond by Monday that would be very helpful, and thanks very much. Also, if you do not have answers to all the questions and can send the information that you have as it is gathered, that is also much appreciated. We understand that you are in the midst of supporting the effort in Japan.

Sincerely, Jim Glanz

The New York Times

212 556 7545

QUESTIONS FOR NRC ON FUKUSHIMA DAIICHI NUCLEAR POWER PLANT:

1. What was the disposition of the plant during the time after the earthquake struck and before the tsunami arrived? Was there indication of damage to the plant solely from the earthquake (if so, what systems) and did emergency procedures function during this time.

2. What magnitude earthquake was the plant designed to withstand? For example, what magnitude earthquake was the plant expected to sustain with damage but continued operation? And with an expected shutdown but no release of radioactive material?

3. Did this reactor sustain damage in the July 16, 2007 earthquake, as the Kashiwazaki power plant did? What damage and how serious was it?

4. Was the Fukushima power plant designed to withstand a tsunami of any size? What sort of modeling was done to design the plant to withstand either seismic events or tsunamis? What specific design criteria were applied in both cases?

Thank you.

**Ali, Syed**

---

**From:** Ali, Syed  
**Sent:** Wednesday, March 23, 2011 12:37 PM  
**To:** 'countryclearance@nrc.gov'  
**Subject:** Country Clearance Request

## Electronic Country Clearance Inputs Worksheet

### Travel Location(s)

\*Destination: Tokyo, Japan

### Traveler Information

\*Name (First, MI, Last): Dr. Syed Amjad Ali  
\*Agency: Nuclear Regulatory Commission  
\*Employment Type (ex. Direct Hire, Contractor, other): Direct Hire  
Email: [Syed.Ali@nrc.gov](mailto:Syed.Ali@nrc.gov)  
Phone (work): 301-251-7658  
\*Country of Birth: (b)(6)  
\*Country of Passport: (b)(6)  
\*Passport No.: (b)(6)  
\*Passport type (personal, official, diplomat, other): (b)(6)  
\*Clearance Level: (b)(6)  
Emergency contact information: (b)(6)

### Carrier Information (specify for each segment, to and from destination)

Mode of Transportation: Air  
Departure Point: Washington Dulles  
Arrival Point: Tokyo, Japan  
Carrier name and number:  
3/24/11: United 0897: Lv. Washington Dulles 1:22 pm,  
3/25/11: Ar. Tokyo 4:35 pm

### Destination Information

\*Destination City(s): Tokyo, Japan  
\*Transit City(s): N/A  
\*Arrival Date: 3/25/11  
\*Departure Date: 3/24/11  
\*Purpose of Visit: To work at the U.S. embassy on issues related to Japan Earthquake of 3/11/11

### U.S. Embassy (post) Support

\*Do you require the post to arrange hotel accommodations for you? No  
\*Do you require the post to arrange airport assistance or transportation for you? No  
\*Will you be traveling with an accompanying pouch? No  
\*Do you require an appointment with someone? No  
\*Do you require any other assistance? No  
\*Fiscal Data (as applicable for above support requested):

### Lodging Arrangements

Hotel name: (b)(6)  
Street Address: (b)(6)  
City: Tokyo, Japan  
Hotel phone: (b)(6)

AAAA/391

Confirmation #: 008202

.....  
With best regards,  
Syed

\*\*\*\*\*  
Dr. Syed A. Ali, P.E.  
Senior Technical Advisor for Civil/Structural Engrg Issues  
Division of Engineering (DE)  
Office of Nuclear Regulatory Research  
United States Nuclear Regulatory Commission

Phone: 301-251-7658  
Email: [Syed.Ali@nrc.gov](mailto:Syed.Ali@nrc.gov)

Mailing Address:  
Syed A. Ali  
M/S CS-5A24M  
US Nuclear Regulatory Commission  
Washington, DC 20555-0001  
\*\*\*\*\*

## Dentel, Glenn

---

**From:** Roberts, Darrell  
**Sent:** Wednesday, March 23, 2011 8:47 AM  
**To:** Dentel, Glenn; Gray, Mel; Burritt, Arthur; Krohn, Paul; Jackson, Donald; Bellamy, Ronald; Powell, Raymond  
**Cc:** Clifford, James; Sheehan, Neil; Screnci, Diane; McNamara, Nancy; Tift, Doug  
**Subject:** FW: Japan Links

BCs,

The links below are what's available on the internal Sharepoint site (communication items listed and annotated with OPA approval – or not), and the NRC public website related to the events in Japan. Obviously, it's a hodge-podge of stuff that is not similarly formatted or easy to cull down for our consumption/preparation for meetings. I'd really like us to consider in today's 9:30 meeting what our needs are for the AAMs/Open Houses (Art, particularly the first one) in terms of visuals/pamphlets/designated individuals to help our communications related to the events. I'm also working with Bob Nelson and some of the other regions to get our arms around what's acceptable in terms of visuals at the public meetings.

Also, on a separate note, I didn't know if you were aware of this or not, but at our retreat last week, we decided to do away with the Wednesday and Friday 0845 meetings, making ourselves more available those mornings. I had forgotten about that until this morning, so I didn't consider it when we were picking a time for today's strategy session.

DJR

---

**From:** Tift, Doug  
**Sent:** Tuesday, March 22, 2011 3:36 PM  
**To:** Roberts, Darrell  
**Subject:** Japan Links

Darrell,

Here is the link for the internal talking points on Japan:  
<http://portal.nrc.gov/edo/nrr/NRR%20TA/FAQ%20Related%20to%20Events%20Occuring%20in%20Japan/Forms/AllItems.aspx>

Here is the link for all the publicly available information:  
<http://www.nrc.gov/japan/japan-info.html>

*Doug Tift*

Regional State Liaison Officer

Office: 610-337-6918

Cell: (b)(6) ex6

AAA/392

**From:** Smith, Sharon on behalf of Janney, Margie  
**To:** Nichols, Russell; Sealing, Donna; Paradiso, Karen; Landau, Mindy; Clayton, Kathleen; McDermott, Brian; Morris, Scott; Holahan, Patricia; Erlanger, Craig; Thaggard, Mark; Correia, Richard; Layton, Michael; Wimbush, Andrea; Gitter, Joseph; Nelson, Robert; Howe, Allen; Ruland, William; Bahadur, Sher; Craver, Patti; Mamish, Nader; Mitchell, Linda; Hayden, Elizabeth; Shannon, Valerie; Vietti-Cook, Annette; Champ, Billie; Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Parks, Jazel; Powell, Amy; Droggitis, Spiros; Belmore, Nancy; Hirsch, Patricia; Remsburg, Kristy; Pulliam, Timothy; Rodgers, Mary; Whetstone, Jack; Corbett, James; Shields, James; Rich, Thomas; Holonich, Joseph; Boyce, Thomas (OIS); Schaeffer, James; Evans, Michele; Rheaume, Cynthia; Boger, Bruce; Grobe, Jack; Givvines, Mary; Uhle, Jennifer; Valentin, Andrea; Dorman, Dan; Matthews, David; Akstulewicz, Frank; Madden, Patrick; Correa, Yessie; Baker, Pamela; Manning, Louis; Coleman, Judy; Travick, Vanette; Holt, BJ; Choe, Jeannie; Hays, Myra; Munroe, Stacey; Holahan, Gary; Dean, Bill; Wert, Leonard; Howell, Art; Casto, Chuck  
**Cc:** Kardaras, Tom; Ordaz, Vonna; Ferrell, Kimberly; McKelvin, Sheila; Mike, Linda; Hart, Ken; Laufer, Richard; Baval, Rochelle; Shea, Pamela; Bates, Andrew; Wright, Darlene; Lewis, Antoinette; Raphael, Mary Jean; Muesle, Mary; Andersen, James; Wagner, Katie; Flanagan, Michelle; Marshall, Jane; Haney, Catherine; Kinneman, John; Kokaiko, Lawrence; Doolittle, Elizabeth; Ford, William; Smith, James; Smith, Shawn; White, Bernard; Bailey, Marissa; Davis, Jack; Mohseni, Aby; Tschiltz, Michael; Weaver, Doug; Eitrem, Anthony; Hiltz, Thomas; Smith, Brian; Habighorst, Peter; Johnson, Robert; Campbell, Larry; Silva, Patricia; Rivera-Lugo, Richard; Larche, Linda; Walker, Tracy; Smith, Sharon; Trent, Glenn  
**Subject:** Revised With Bridge line Info.- Request for Information after Events in Japan  
**Start:** Thursday, March 24, 2011 3:00:00 PM  
**End:** Thursday, March 24, 2011 4:00:00 PM  
**Location:** HQ-TWFN-10A01-40p

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When: Thursday, March 24, 2011 3:00 PM-4:00 PM (GMT-05:00) Eastern Time (US & Canada).  
Where: HQ-TWFN-10A01-40p

Note: The GMT offset above does not reflect daylight saving time adjustments.

\*~\*~\*~\*~\*~\*~\*~\*~\*~\*

Revised Information: Bridge line: 888-677-5809 Pass Code: (b)(6)

Hi Everyone,

The agency is receiving a significant increase in requests for information after the events in Japan. Your help is needed to provide solutions as to how we can expeditiously complete the requests without significantly impacting mission-related work.

Some topics which we'd like to discuss include:

- A quick FOIA request overview
- A quick Congressional Inquiry overview
- What is considered due diligence in searching for the requested material?
- Can OIS provide an automated enterprise search for the pertinent information needed; if so, what are the search criteria?

Please forward this meeting notice to appropriate staff.

Please let me know if you have any questions.

Thanks!  
-Margie

AAA/393

**From:** Sheron, Brian  
**To:** Scott, Michael; Gibson, Kathy; Coyne, Kevin; Coe, Doug; Valentin, Andrea; Case, Michael; Richards, Stuart  
**Cc:** Uhle, Jennifer  
**Subject:** RE: Comm brief location...  
**Date:** Thursday, March 17, 2011 10:38:50 AM

---

What briefing are you talking about? This isn't the Commission meeting? I thought that was scheduled for Tuesday?

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

**From:** Scott, Michael  
**Sent:** Thursday, March 17, 2011 10:26 AM  
**To:** Gibson, Kathy; Sheron, Brian; Coyne, Kevin; Coe, Doug; Valentin, Andrea; Case, Michael; Richards, Stuart  
**Cc:** Uhle, Jennifer  
**Subject:** Comm brief location...

... For the Monday Japan brief will be the 1st floor OWFN Comm briefing room.

Sent from my NRC blackberry

Michael Scott

(b)(6)

AAAA/394

**From:** [Coyne, Kevin](#)  
**To:** [Coe, Doug](#)  
**Subject:** Fw: Japan  
**Date:** Saturday, March 19, 2011 7:24:55 PM  
**Importance:** High

---

Fyi....

Sent from an NRC Blackberry

Kevin Coyne

(b)(6)

--- Original Message ---

From: Gibson, Kathy

To: Huffert, Anthony; Yarsky, Peter; Rubin, Stuart; Salley, MarkHenry

Cc: Uhle, Jennifer; Coyne, Kevin; Bush-Goddard, Stephanie; Elkins, Scott; Scott, Michael

Sent: Sat Mar 19 18:45:58 2011

Subject: Japan

You will NOT be going to Japan at this time. Thank you so much for your willingness to serve.

Kathy

AAAA/395

**From:** Brenner, Eliot [mailto:Eliot.Brenner@nrc.gov]  
**Sent:** Wednesday, March 23, 2011 7:27 AM  
**To:** nrc-editors@bulletinnews.com  
**Cc:** Hayden, Elizabeth; Harrington, Holly; Ledford, Joey  
**Subject:** FW: Behind Paywall

Any chance you can lay hands on this one?

**From:** Ledford, Joey  
**Sent:** Wednesday, March 23, 2011 7:25 AM  
**To:** Brenner, Eliot; Hayden, Elizabeth; Harrington, Holly  
**Subject:** Behind Paywall

Eliot, this story resulted from the Graham tour yesterday, wasn't in the clips and is behind the Greenville News' paywall. Can you ask them to retrieve it?

<http://www.greenvilleonline.com/article/20110323/NEWS/303230031>

The lead is all there is online:

## **Nuclear industry works to sustain rebirth**

**Graham tours Oconee, fears Japan crisis will kill reactor renaissance**

**BY ANNA SIMON • CLEMSON BUREAU • PUBLISHED: MARCH 23, 2011 2:00AM**

The nuclear industry in the United States and its allies have launched a campaign to reassure the public and keep alive a budding renaissance of new reactor construction as Japan struggles to control a damaged nuclear complex.

**Joey Ledford**  
**Public Affairs Officer**  
**Region II -- Atlanta, Ga.**

**O: 404.997.4416**

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

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



AAAA/396

Schaperow, Jason

---

**From:** Schaperow, Jason  
**Sent:** Thursday, March 24, 2011 4:24 PM  
**To:** Hill, Brittain  
**Subject:** RE: ACTION: Review slides for 3/28/11 Briefing to Rep. Hamilton

O.K. Thanks for the explanation.

What is your work schedule for tomorrow (Friday), in case I want to make a couple of changes?

Jason

---

**From:** Hill, Brittain  
**Sent:** Thursday, March 24, 2011 3:10 PM  
**To:** Schaperow, Jason  
**Cc:** Gibson, Kathy; Santiago, Patricia; Tinkler, Charles; Chang, Richard; Ghosh, Tina; Armstrong, Kenneth; Mohseni, Aby  
**Subject:** RE: ACTION: Review slides for 3/28/11 Briefing to Rep. Hamilton

Jason – I've taken another look at the previous version (2/3/11) and the current version, and think that what is missing from the current version is primarily some of the technical details regarding, for example, analytical methods and mitigation approaches. Most of these details are in the Background material, which we can refer to if questions/discussions warrant.

While we took a more technical focus to the 2/3/11 meeting, BRC staff has requested a higher-level briefing for Rep. Hamilton. With that goal in mind, and the need to reduce our presentation to 30 mins, we really need to keep the focus at the level in the current slides.

I do not expect you to work for hours on this, or to make substantial changes. If there are a couple of additional bullets that flow into the current slides, or some rewording to clarify the abridged point, then please forward me those edits. But we have to delete some of the important ideas from 2/3/11 in order to meet our time constraints and stay within focus.

Thanks-  
Britt

---

**From:** Schaperow, Jason  
**Sent:** Thursday, March 24, 2011 2:38 PM  
**To:** Hill, Brittain  
**Cc:** Gibson, Kathy; Santiago, Patricia; Tinkler, Charles; Chang, Richard; Ghosh, Tina; Armstrong, Kenneth  
**Subject:** RE: ACTION: Review slides for 3/28/11 Briefing to Rep. Hamilton  
**Importance:** High

Hi Britt,

These are not the same slides we used for the BRC on February 3. It appears that there was an attempt to shorten the spent fuel pool slides by 1) moving some of them to the end (as background slides) and 2) combining some of them. Some important ideas are no longer on the slides. For example, the slides no longer state that NRC added a requirement for spent fuel pool makeup.

I request that we go back to the original spent fuel pool slides. To conserve time at the briefing, I can go quickly through the slides and skip bullets as necessary. I really don't want to spend the rest of today and tomorrow revising slides.

Thanks,  
Jason

---

**From:** Hill, Brittain  
**Sent:** Thursday, March 24, 2011 8:57 AM  
**To:** Gibson, Kathy; Santiago, Patricia; Schaperow, Jason  
**Subject:** ACTION: Review slides for 3/28/11 Briefing to Rep. Hamilton

These are a subset of the same slides we used to brief the Blue Ribbon Commission folks on 2/3/11. Given the current events in Japan, are there any slides that RES believes should be modified? Clearly, we are not trying to incorporate new information about the Japan events into the slides, and I suspect that no changes are needed. Nevertheless, given our limited understanding of what has transpired the past weeks, are there any modifications that appear warranted?

Please let me know before COB Friday so that I will have sufficient time to incorporate changes and print copies for our use on Monday's briefing.

Thanks-  
Britt

Brittain E. Hill, Ph.D.  
Sr. Advisor for Repository Science  
US Nuclear Regulatory Commission  
MS EBB-2-B02, NMSS/HLWRS/TRD  
Washington, DC 20555-0001

Ph (301) 492-3168; Fax (301) 492-3357;  
Mobile (b)(6) email: [Brittain.Hill@nrc.gov](mailto:Brittain.Hill@nrc.gov)

---

**From:** ET02 Hoc  
**Sent:** Thursday, March 24, 2011 5:55 PM  
**To:** ET05 Hoc  
**Subject:** FW: FYI - FW: Nuclear Problems in Japan  
**Attachments:** Fukuchima\_eng\_20110320.pps

---

**From:** Karas, Rebecca  
**Sent:** Thursday, March 24, 2011 1:28 PM  
**To:** ET02 Hoc; RST01 Hoc; RST12 Hoc  
**Subject:** FW: FYI - FW: Nuclear Problems in Japan

Rebecca Karas, Chief  
Geosciences and Geotechnical Engineering Branch 1  
Division of Site and Environmental Reviews  
Office of New Reactors  
U.S. Nuclear Regulatory Commission  
Phone: 301-415-7533  
Fax: 301-415-5397

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**From:** Flanders, Scott  
**Sent:** Thursday, March 24, 2011 1:00 PM  
**To:** Karas, Rebecca  
**Subject:** FW: FYI - FW: Nuclear Problems in Japan

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**From:** Bergman, Thomas  
**Sent:** Thursday, March 24, 2011 12:15 PM  
**To:** NRO\_SES Distribution  
**Cc:** LIA08 Hoc; LIA06 Hoc  
**Subject:** FYI - FW: Nuclear Problems in Japan

Apologize if this has been previously distributed. It is an Areva presentation on the event. Has good graphics to go with the information.

---

**From:** Santos, Daniel  
**Sent:** Thursday, March 24, 2011 11:11 AM  
**To:** Bergman, Thomas; Dixon-Herrity, Jennifer; Jung, Ian; Jackson, Terry; Norato, Michael; Jenkins, Ronaldo; Hawkins, Kimberly; Terao, David; Hsia, Anthony  
**Subject:** FW: Nuclear Problems in Japan

This was forwarded to me by one of my MDEP counterparts.

AAAA/398

**From:** Lojk, Robert [mailto:Robert.Lojk@cnsccsn.gc.ca]  
**Sent:** Thursday, March 24, 2011 9:51 AM  
**To:** Santos, Daniel  
**Subject:** Nuclear Problems in Japan

Daniel:

In case you guys haven't seen this, Areva has done a good job illustrating the Japanese event.

See you in Vienna.

Saludos,

Bob  
Robert Lojk, P. Eng.  
Director, Systems Engineering Division  
Canadian Nuclear Safety Commission  
613 947 3992

(b)(6) (Cell)

\*\*\*\*\*  
The information contained in this e-mail is intended solely for the use of the named addressee. Access, copying, or re-use of the e-mail or any information contained therein by any other person is not authorized. If you are not the intended recipient, please notify us immediately by returning the e-mail to the originator.

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\*\*\*\*\*

**Wittick, Brian**

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**From:** Wittick, Brian  
**Sent:** Wednesday, April 20, 2011 12:46 PM  
**To:** Emche, Danielle  
**Subject:** Re: Read out from 4/20 meetings

Thanks Danielle

Sent from NRC BlackBerry  
Brian Wittick

(b)(6)

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**From:** Emche, Danielle  
**To:** Wittick, Brian  
**Sent:** Wed Apr 20 08:48:38 2011  
**Subject:** RE: Read out from 4/20 meetings

Brian,

For planning with DOE and DOS and meeting with GOJ, if you're able to influence the dialogue, Margie and I were discussing some insight yesterday. Recognizing that, although NRC doesn't have a position per se, we do have an interest in preserving the relationship and don't want discussions with GOJ on invoking the convention to spiral over liability and reimbursement issues. That would miss the point. Margie suggested, rather than focusing on liability and reimbursement, discussions should open with and emphasize the global desire of countries to contribute to the recovery effort in Japan and the understanding that only the convention would provide the framework for and administration of this.

It's not clear how the convention could be implemented since it never has been done before. It might be possible to consider liability and reimbursement on a case-by-case basis approach (this was a suggestion from MOFA that we heard in a previous meeting). We all look forward to hearing how things go.

Danielle

---

**From:** Wittick, Brian  
**Sent:** Wednesday, April 20, 2011 6:16 AM  
**To:** Wittick, Brian; Doane, Margaret; Mamish, Nader  
**Cc:** LIA08 Hoc; LIA02 Hoc; Foggie, Kirk; Abrams, Charlotte; Emche, Danielle  
**Subject:** RE: Read out from 4/20 meetings

Margie,

Attached please find the results of the Tuesday meetings.

VR/  
Brian

AAAA/399

**Wittick, Brian**

---

**From:** Wittick, Brian  
**Sent:** Wednesday, April 20, 2011 12:35 PM  
**To:** Schwartzman, Jennifer  
**Subject:** Re: FYI - IAEA Technical Briefing Summary for April 19, 2011 (attached and pasted below).

Thanks

Sent from NRC BlackBerry  
Brian Wittick

(b)(6)

---

**From:** Schwartzman, Jennifer  
**To:** Wittick, Brian  
**Cc:** Foggie, Kirk; Emche, Danielle  
**Sent:** Wed Apr 20 08:14:04 2011  
**Subject:** RE: FYI - IAEA Technical Briefing Summary for April 19, 2011 (attached and pasted below).

They were just there – they left last week. This is different than the rad monitoring folks.

---

**From:** Wittick, Brian  
**Sent:** Wednesday, April 20, 2011 8:14 AM  
**To:** Schwartzman, Jennifer  
**Cc:** Foggie, Kirk; Emche, Danielle  
**Subject:** Fw: FYI - IAEA Technical Briefing Summary for April 19, 2011 (attached and pasted below).

Any idea when the team of BWR experts from IAIA were at Daiichi? Is this the same as the two rad monitoring techs that went there a few weeks ago.

Sent from NRC BlackBerry  
Brian Wittick

(b)(6)

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**From:** LIA08 Hoc  
**To:** Liaison Japan  
**Sent:** Wed Apr 20 07:35:50 2011  
**Subject:** FW: FYI - IAEA Technical Briefing Summary for April 19, 2011 (attached and pasted below).

For your info. Let me know if you already receive these documents from IAEA. DOEs sitrep this morning noted a 23 degree C rise in the temp of SFP #2 from yesterdays temp readings. I have asked our RST to look at.

Jeff Temple  
Liaison Team Coordinator  
US Nuclear Regulatory Commission  
email: lia08.hoc@nrc.gov  
Desk Ph: 301-816-5185

---

**From:** Zimmerman, Roy  
**Sent:** Wednesday, April 20, 2011 7:33 AM  
**To:** OST01 HOC; LIA08 Hoc

• Cc: RST01 Hoc; Hoc, PMT12

Subject: FW: FYI - IAEA Technical Briefing Summary for April 19, 2011 (attached and pasted below).

Do we send this report to the site team? If not, we should start, thx

---

From: Weber, Michael

Sent: Wednesday, April 20, 2011 6:49 AM

To: OST01 HOC; Zimmerman, Roy

Cc: Virgilio, Martin; Merzke, Daniel; Hoc, PMT12; LIA08 Hoc; RST01 Hoc

Subject: FYI - IAEA Technical Briefing Summary for April 19, 2011 (attached and pasted below).

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From: Shaffer, Mark R [mailto:ShafferMr@state.gov]

Sent: Wednesday, April 20, 2011 3:08 AM

To: Shaffer, Mark R; Scheland, Mark DL; IAEA Vienna; Davies, Glyn T

Cc: LIA02 Hoc; Schwartzman, Jennifer; daniel.piccuta@pacom.mil; johnsonsm@oro.doe.gov; david.arulanantham@pacom.mil; brian.p.mackey@pacom.mil; sharon.gouveia@pacom.mil; william.meserve@us.army.mil; william.b.johnson@pacom.mil; cecile.shea@usmc.mil; james.f.cole@navy.mil; brian.woo@hickam.af.mil; pacom.j9.all@pacom.mil; Weber, Michael; Collins, Elmo; charles.casto@nrc.gov; s.reynolds@nrc.gov; ET01 Hoc; ET02 Hoc; OST02 HOC; LIA02 Hoc

Subject: IAEA Technical Briefing Summary for April 19, 2011 (attached and pasted below).

### IAEA Technical Briefing on Fukushima Accident - April 19, 2011

The IAEA Technical Briefing today was led by Deputy Director General Denis Flory, and supported by Mr. Miro Lipar, from the Division of Nuclear Installation Safety; Ms. Elena Buglova, Acting Director for the Incident & Emergency Center; Rethy Cchem, from IAEA Division of Human Health, and Hartmuth Mies, from IAEA's Marine Environmental Laboratories in Monaco.

*For consistency with IAEA's key messages presented during the technical briefings, much of the text below is taken directly from DDG Flory and his team's speaker notes.*

#### Current Situation

Overall, the situation at the Fukushima Daiichi nuclear power plant remains very serious but there are early signs of recovery in some functions, such as electrical power and instrumentation.

On April 17, the Ministry of Economy, Trade and Industry (METI) announced that TEPCO had issued a "Roadmap towards Restoration from the Accident at the Fukushima Daiichi Nuclear Power Station". The roadmap outlines 63 measures to be taken in two steps over a period of six to nine months.

#### Changes to Fukushima Daiichi Plant Status

The IAEA receives information from a variety of official Japanese sources through the nation's national competent authority, the Nuclear and Industrial Safety Agency. The information provided in the briefing today is based on information received up to 07:00 UTC on April 19, 2011.

TEPCO has provided a plan to NISA for the transfer of highly contaminated water from the basement floor of the turbine building of **Unit 2** to the Main Building of the Radioactive Waste Treatment Facilities in order to reduce the risk of this stagnant waste water being discharged to the environment.

On April 17-18, an unmanned robot was used to conduct inspections of the Reactor Buildings in **Units 1, 2 and 3**.

As of April 18, white smoke was still observed coming from **Units 2, 3 and 4**.

In **Unit 1**, fresh water is being continuously injected into the RPV through the feed-water line at an indicated flow rate of 6 m<sup>3</sup>/h using a temporary electric pump with off-site power. In **Units 2 and 3**, fresh water is being continuously injected through the fire extinguisher lines at an indicated rate of 7 m<sup>3</sup>/h using temporary electric pumps with off-site power.

RPV temperatures remain above cold shutdown conditions in all Units. In **Unit 1** the temperature at the feed water nozzle of the RPV is 170°C and at the bottom of the RPV is 115°C. In **Unit 2**, the temperature at the feed water nozzle of the RPV is 142°C. In **Unit 3** the temperature at the feed water nozzle of the RPV is 100°C and at the bottom of the RPV is 114°C.

In **Unit 1** Nitrogen gas is being injected into the containment vessel to reduce the possibility of hydrogen combustion within the containment vessel. The pressure in this containment vessel has stabilized. The pressure in the RPV is increasing. In **Units 2 and 3** Reactor Pressure Vessel and Drywell pressures remain at atmospheric pressure.

On April 18, the concrete pump truck sprayed water into the **Unit 3** spent fuel pool. On April 17, approximately 140 tones of fresh water was pumped into the **Unit 4** spent fuel pool.

There has been no change in the status in **Units 5 and 6** or in Common Spent Fuel Storage Facility.

On April 17-18, anti-scattering agent was sprayed over an additional 3100 m<sup>2</sup> area near the Centralized Waste Treatment Facility.

### **Radiation Monitoring**

On April 18, deposition of I-131 was detected in 6 prefectures ranging from 2.3 to 65 Bq/m<sup>2</sup>. Deposition of Cs-137 was detected in 2 prefectures; the values reported were 4.7 and 14.8 Bq/m<sup>2</sup>.

Gamma dose rates are measured daily in all 47 prefectures. The values tend to decrease over time. For Fukushima, on April 18, a dose rate of 1.9 µSv/h was reported. In the Ibaraki prefecture, a gamma dose rate of 0.13 µSv/h was reported; in all other prefectures, reported gamma dose rates were below 0.1 µSv/h.

Dose rates are also reported specifically for the Eastern part of the Fukushima prefecture, for distances beyond 30 km from Fukushima-Daiichi. On April 17, the values in this area ranged from 0.1 to 23 µSv/h.

MEXT has set up an additional monitoring program in cooperation with local universities. On April 18, measurements of the gamma dose rates were reported for 53 cities in 40 prefectures. In Fukushima City, a value of 0.38 µSv/h was observed; in 9 cities, gamma dose rates ranged from 0.13 to 0.17 µSv/h. For the other cities, gamma dose rates of less than 0.1 µSv/h were reported.

In drinking water, I-131 or Cs-137 is detectable at very low levels only in a few prefectures. As of April 17, one restriction for infants related to I-131 (100 Bq/l) is in place in a small scale water supply in a village of the Fukushima prefecture.

On April 18, the IAEA Team made measurements at 12 different locations in the Fukushima area at distances ranging from 13 to 43 km, South and Southwest from the Fukushima nuclear power plant. At these locations, the dose rates ranged from 0.25 to 6.8 µSv/h. At the same locations, results of beta-gamma contamination measurements ranged from 0.01 to 0.15 Megabecquerel/m<sup>2</sup>.

Analytical results related to food contamination were reported by the Japanese Ministry of Health, Labor and Welfare on April 18, and covered a total of 23 samples taken on the 8th, 15th, 17th and 18th of April. Analytical results for all of the samples of various vegetables, shiitake mushrooms, leafy vegetables, fruit (strawberry),

fish and unprocessed raw milk in eight prefectures (Chiba, Fukushima, Gunma, Hokkaido, Ibaraki, Niigata, Saitama and Yamagata) indicated that I-131, Cs-134 and/or Cs-137 were either not detected or were below the regulation values set by the Japanese authorities.

### **Marine Monitoring**

TEPCO Monitoring Program:

TEPCO is conducting a program for seawater (surface sampling) at a number of near-shore and off-shore monitoring locations following a directive from NISA, on 16th April TEPCO announced they will increase the number of sea sampling points from 10 to 16. A further four points will be added at 3 km from the coast and two points will be added at 8 km from the coast. On some days, two samples were collected at the same sampling point, a few hours apart and analyzed separately.

Until April 3, a general decreasing trend in radioactivity was observed at the sampling points TEPCO1 to TEPCO4. After the discharge of contaminated water on April 4, a temporary increase in radioactivity has been reported; however, since April 5, a general decreasing trend has been observed in the concentration of radionuclides in sea water for all TEPCO sampling points.

At all TEPCO sampling points since April 9, a decreasing trend has been observed.

MEXT Off-shore Monitoring Program:

Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT) initiated the off-shore monitoring program on March 23 and subsequently 4 points were added to the off-shore sampling scheme. On April 4, MEXT added two sampling points to the north and west of the site

The results reported on April 18 (sampling date April 15) showed that Cs-137 and I-131 were detected at MEXT 4, 6 and 8. The highest concentrations were recorded at MEXT4 (below 200Bq/l for Cs-137 and about 160 Bq/l for I-131). At MEXT 6 and 8 sampling locations both Cs-137 and I-131 were reported at levels below about 40 Bq/l.

The results reported on April 19 (sampling date April 17) showed that at the stations MEXT 5, 7 and 9, Cs-137 and I-131 are below 90 Bq/l. Neither Cs-137 nor I-131 were detected at the new sampling points noted above.

### **Additional IAEA Activities**

The IAEA mission of BWR experts to Japan provided the Agency with a unique opportunity to communicate directly with the various stakeholders working to address challenges at both the Daiichi and Daini reactor sites. All organizations fully cooperated with the IAEA team and provided the team with a better understanding of event sequences, current challenges and future plans and priorities.

The BWR experts toured the Fukushima Daiichi site and the Emergency center. At all facilities, the IAEA team noted a strong, positive attitude broadly displayed by the management, support and task implementation teams, even though the situation is not yet stabilized. Activities appeared to be well organized, efforts were thoroughly planned, and responsibilities well communicated.

### **Questions from Member States**

Only three Member States asked questions today; Germany, Australia and Singapore. Japan spoke immediately after the staff presentations, to provide Member States with a brief overview of the "Roadmap towards Restoration from the Accident at the Fukushima Daiichi Nuclear Power Station."

Member State's questions focused primarily on TEPCO's plan for handling the significant amount of contaminated water at the site, and in particular, does Fukushima have the storage capacity to hold the thousands of tones of water, without another discharge to the sea.

IAEA stated that there is not currently enough storage capacity, but tanks are being constructed on site now, and there is also a ship located off shore that will be used to store the water. Right now, workers at the site are basically shuffling the water from one storage area to the other until the tanks are completed. IAEA pointed to TEPCO's roadmap where "Target 6 and Target 7" specifically describe the countermeasures that are planned to address the situation. Additionally, IAEA noted that a water treatment system is also being constructed on site so that contaminated water can be "filtered" and then be re-cycled for cooling, rather than continuing to add new volumes of water.

### **Closing Remarks**

DDG Flory closed the meeting by stating that the next IAEA Technical Briefing will be conducted on April 28, unless significant changes at the Fukushima site warrant an earlier briefing.

This email is UNCLASSIFIED.

## IAEA Technical Briefing on Fukushima Accident - April 19, 2011

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On April 18, the IAEA Team made measurements at 12 different locations in the Fukushima area at distances ranging from 13 to 43 km, South and Southwest from the Fukushima nuclear power plant. At these locations, the dose rates ranged from 0.25 to 6.8  $\mu$ Sv/h. At the same locations, results of beta-gamma contamination measurements ranged from 0.01 to 0.15 Megabecquerel/m<sup>2</sup>.

Analytical results related to food contamination were reported by the Japanese Ministry of Health, Labor and Welfare on April 18, and covered a total of 23 samples taken on the 8th, 15th, 17th and 18th of April. Analytical results for all of the samples of various vegetables, shiitake

mushrooms, leafy vegetables, fruit (strawberry), fish and unprocessed raw milk in eight prefectures (Chiba, Fukushima, Gunma, Hokkaido, Ibaraki, Niigata, Saitama and Yamagata) indicated that I-131, Cs-134 and/or Cs-137 were either not detected or were below the regulation values set by the Japanese authorities.

## **Marine Monitoring**

### TEPCO Monitoring Program

TEPCO is conducting a program for seawater (surface sampling) at a number of near-shore and off-shore monitoring locations following a directive from NISA, on 16th April TEPCO announced they will increase the number of sea sampling points from 10 to 16. A further four points will be added at 3 km from the coast and two points will be added at 8 km from the coast. On some days, two samples were collected at the same sampling point, a few hours apart and analyzed separately.

Until April 3, a general decreasing trend in radioactivity was observed at the sampling points TEPCO1 to TEPCO4. After the discharge of contaminated water on April 4, a temporary increase in radioactivity has been reported; however, since April 5, a general decreasing trend has been observed in the concentration of radionuclides in sea water for all TEPCO sampling points.

At all TEPCO sampling points since April 9, a decreasing trend has been observed.

### MEXT Off-shore Monitoring Program

Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT) initiated the off-shore monitoring program on March 23 and subsequently 4 points were added to the off-shore sampling scheme. On April 4, MEXT added two sampling points to the north and west of the site

The results reported on April 18 (sampling date April 15) showed that Cs-137 and I-131 were detected at MEXT 4, 6 and 8. The highest concentrations were recorded at MEXT4 (below 200Bq/l for Cs-137 and about 160 Bq/l for I-131). At MEXT 6 and 8 sampling locations both Cs-137 and I-131 were reported at levels below about 40 Bq/l.

The results reported on April 19 (sampling date April 17) showed that at the stations MEXT 5, 7 and 9, Cs-137 and I-131 are below 90 Bq/l. Neither Cs-137 nor I-131 were detected at the new sampling points noted above.

## **IAEA Activities**

The IAEA mission of BWR experts to Japan provided the Agency with a unique opportunity to communicate directly with the various stakeholders working to address challenges at both the Daiichi and Daini reactor sites. All organizations fully cooperated with the IAEA team and provided the team with a better understanding of event sequences, current challenges and future plans and priorities.

The BWR experts toured the Fukushima Daiichi site and the Emergency center. At all facilities, the IAEA team noted a strong, positive attitude broadly displayed by the management, support and task implementation teams, even though the situation is not yet stabilized. Activities appeared to be well organized, efforts were thoroughly planned, and responsibilities well communicated.

### **Questions from Member States**

Only three Member States asked questions today; Germany, Australia and Singapore. Japan spoke immediately after the staff presentations, to provide Member States with a brief overview of the "Roadmap towards Restoration from the Accident at the Fukushima Daiichi Nuclear Power Station."

Member State's questions focused primarily on TEPCO's plan for handling the significant amount of contaminated water at the site, and in particular, does Fukushima have the storage capacity to hold the thousands of tones of water, without another discharge to the sea.

IAEA stated that there is not currently enough storage capacity, but tanks are being constructed on site now, and there is also a ship located off shore that will be used to store the water. Right now, workers at the site are basically shuffling the water from one storage area to the other until the tanks are completed. IAEA pointed to TEPCO's roadmap where "Target 6 and Target 7" specifically describe the countermeasures that are planned to address the situation. Additionally, IAEA noted that a water treatment system is also being constructed on site so that contaminated water can be "filtered" and then be re-cycled for cooling, rather than continuing to add new volumes of water.

### **Closing Remarks**

DDG Flory closed the meeting by stating that the next IAEA Technical Briefing will be conducted on April 28, unless significant changes at the Fukushima site warrant an earlier briefing.

**From:** Lewis, Robert  
**To:** Case, Michael; Williams, Shawn; Brach, Bill; Camper, Larry  
**Subject:** Re: Your thoughts ...  
**Date:** Thursday, March 24, 2011 5:20:22 PM

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I support having a position sheet done going into css.

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**From:** Case, Michael  
**To:** Williams, Shawn; Brach, Bill; Camper, Larry; Lewis, Robert  
**Sent:** Thu Mar 24 17:01:38 2011  
**Subject:** RE: Your thoughts ...

It's a reasonable question given the times.

**From:** Williams, Shawn  
**Sent:** Thursday, March 24, 2011 4:27 PM  
**To:** Brach, Bill; Camper, Larry; Lewis, Robert; Case, Michael  
**Subject:** Your thoughts ...

I was about to send the below e-mail to my normal CSS distribution but I wanted to get your thoughts first...

I am wondering if you think I should assign an office to create a "Position Sheet" for Agenda Item 2, "Possible future implication on IAEA Safety Standards of the recent events in Japan" or if you agree with me, that it is too early and out of process.

-----  
All,

We just received the official 29<sup>th</sup> CSS Provisional Agenda (attached).

There are two additional Agenda Items from the draft version I previously provided.

**Agenda Item 2: Possible future implication on IAEA Safety Standards of the recent events in Japan**

- 2.1 Presentations from the Japanese CSS member
- 2.2 IAEA Response
- 2.3 Future activities

**Agenda Item 3: Feedback from the CNS review meeting (Position Sheet assigned to NRR)**

I revised the Green Ticket to match the new Agenda and I am ready to issue the Green Ticket except, I have one question for the SSCs.

- (1) Concerning Agenda Item 2, the normal process is for the SSC's to first evaluate the issue (during their SSC meetings), and then bring forth their recommendations to the CSS. I am

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guessing an Action from the 29<sup>th</sup> CSS will be for this to happen. Given that, and given that it seems that the Agenda Item is mostly information on IAEA 's Japan response and future activities, and given that we really know little about the accident at this time, and given that we have a Task Force that will be evaluating the issues, I tend to think it is too early to assign an Office the lead to create a "Position Sheet." As background for this Agenda Item, I would include any proposals from the Task Force.

Do you think I should assign an office to create a "Position Sheet" for Agenda Item 2? If so, what office do you think should have the lead? Or is it too early as I propose.

**From:** D.Delattre@iaea.org [mailto:D.Delattre@iaea.org]  
**Sent:** Thursday, March 24, 2011 11:38 AM  
**To:** agonzale@sede.arn.gov.ar; (b)(6) carl-magnus.larsson@arpansa.gov.au; Jean-Paul.Samain@wr-cs.be; lavinhas@cnen.gov.br; ramzi.jammal@cnsccsn.gc.ca; Liu.hua@bnn.cn; (b)(6) Jukka.Laaksonen@stuk.fi; andre-claude.lacoste@asn.fr; Dieter.majer@bmu.bund.de; ssbajaj@aerb.gov.in; ilevanon@iaec.gov.il; nakamura-koichiro1@meti.go.jp; chyun@kins.re.kr; shakil@pnra.org; (b)(6) vbezz@gan.ru; gclapiss@nnr.co.za; agurgui@csn.es; Leif.Moberg@ssm.se; mykolaichuk@hq.snrc.gov.ua; mike.weightman@hse.gsi.gov.uk; Virgilio, Martin; lcdung@most.gov.vn; peter.faross@ec.europa.eu; claire.cousins@addenbrookes.nhs.uk; rmeserve@ciw.edu; uichiro.yoshimura@oecd.org; raja.dg@aelb.gov.my  
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**Subject:** IAEA - Commission on Safety Standards - meeting from 25 to 27 May 2011 - message #1

Dear CSS members.

The next CSS meeting is planned from 25 to 27 May 2011 and I am pleased to inform you that the invitation letters are being prepared. For your convenience, I attach here an electronic version of the provisional agenda.

<<CSSagn29 rev3.doc>>

I have started to post last week on the CSS web site, i.e. more than two and a half months in advance to the meeting, the material for submission to you. You may find these at the following address:

<http://www-ns.iaea.org/committees/css/> in the folder "CSS documents for comment". Other material for information is available in the folder "Documents provided by the Secretariat for information".

The only draft that still need to be posted is the draft safety requirement DS414 on Safety of Nuclear Power Plants: Design. It is currently under review by the NUSCC Chair in order to verify that changes proposed by the Technical Editors and agreed to by the Technical Officer don't affect the substance of the draft after its approval by the Committees. I intend to post the final draft at the latest on 29 March so as to comply with the eight weeks deadline.

Among the drafts, you will also find the draft safety requirement DS379 on Radiation Protection and Safety of Radiation Sources, the revised International BSS. You will note that on part will need to be updated taking into account the result of the ICRP deliberation on the exposure to the eye lenses. It is expected to receive the result in April 2011 and this will be mentioned to you as soon as we receive it.

You therefore have most of the material available for your review around nine weeks in advance to the meeting. I would appreciate it very much if, as agreed to be the standard practice, you also post your comments on the documents submitted for approval two weeks in advance to the meeting, i.e. by 6 May 2011. This will also allow you to see in advance the comments from other members and the responsible Technical Officers to take them into account and provide you, at the meeting, with their proposed answer for your consideration.

Please read the general information available on this CSS web page, as well as the instructions on how to use it, in particular on how to register, login and post comments on the documents submitted to you. I attach here again these instructions.

<<GuidanceontheuseoftheCSSmembersarea.doc>>

For your presentations on 8.1 (Topical discussion on the Use of Safety Standards) and 8.2 (Regulatory Issues), I would also appreciate it very much if you could send to me in advance to the meeting (also two weeks) your input for these two items, with a preference for separate papers for each of these items. I will upload them on the web site as soon as I receive them. In particular for the agenda item 8.1, I would appreciate if you could indicate recent use of IAEA safety standards for preparing regulatory documents or performing other regulatory activities.

For Mr Laaksonen, Vinhas and Virgilio who are CSS representatives at the Joint AdSec CSS task force, I confirm that the meeting of the task force will be held on 24 May 2011, starting at 8:30.

Finally, please don't hesitate to contact my Secretary Frances Klimscha for any assistance needed for the meeting arrangements. Her email address is [f.klimscha@iaea.org](mailto:f.klimscha@iaea.org). Her telephone is +43 1 26 00 22286. In this regard, I'd like to request that you confirm soon to her your participation at the next CSS meeting as well as the name of any assistant at the meeting (one assistant normally according to the Terms of Reference).

Best regards.

Dominique Delattre

Scientific Secretary of the CSS

Head, Safety Standards and Application Unit

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