

## Tang, David

---

**From:** Tang, David  
**Sent:** Wednesday, March 16, 2011 7:19 AM  
**To:** 'Sean Soong'  
**Subject:** FW: info on Japanese reactors  
**Attachments:** ENGNEWS01\_1300168169P.pdf

Sean, fyi.

David

---

**From:** Einziger, Robert  
**Sent:** Wednesday, March 16, 2011 7:09 AM  
**Subject:** info on Japanese reactors



Incident occurred	Service	Service	Service	Damage	Damage	Damage
	Damaged	Unknown	Damaged	Not Damaged	Not Damaged	Not Damaged
	Not Damaged	Damage Suspected	Not Damaged	Not Damaged	Not Damaged	Not Damaged
	Not Functional	Not Functional	Not Functional	Not necessary	Not necessary	Not necessary
wer	Not Functional	Not Functional	Not Functional	Not necessary	Not necessary	Not necessary
	Severely Damaged	Slightly Damaged	Severely Damaged	Partially Damaged	Not Damaged	Not Damaged
	Radiation monitor detect radiation increase in the environment (NPS border: 8,217 $\mu$ Sv/h at 8:31)					
	Unknown	Recovering after Dried-up	Unknown	Safe	Safe	Safe
	Stable	(No info)	Stable	Safe	Safe	Safe
	Stable	D/W: Unknown, S/P: Atmosphere	Stable	Safe	Safe	Safe
	Done	Done	Done	Not necessary	Not necessary	Not necessary
ent Vessel	Done	to be decided	to be decided	Not necessary	Not necessary	Not necessary
	Done	Preparing	Done	Not necessary	Not necessary	Not necessary
	20km from NPS					
	* People who live between 20km to 30km from the Fukushima #1NPS are to stay indoors.					
	Level 4 (estimated by NISA)					
	<p>Fire broke on the 4th floor of the Unit-4 Reactor Building around 6AM and the radiation monitor readings increased outside of the building: 30mSv between Unit-2 and Unit-3, 400mSv beside Unit-3, 100mSv beside Unit-4 at 10:22.</p> <p>It is estimated that the spent fuels stored in the spent fuel pit heated and hydrogen was generated from these fuels, resulting in the explosion. TEPCO later announced the fire had been extinguished.</p> <p>Other staff and workers than 50 TEPCO employees, who are engaged in water injection operation, have been evacuated.</p>					

Fukushima #2 Nuclear Power Station				
	1	2	3	4
	1100	1100	1100	1100
	BWR-5	BWR-5	BWR-5	BWR-5
ke occurred	Service	Service	Service	Service
	Not Damaged	Not Damaged	Not Damaged	Not Damaged
	Not Damaged	Not Damaged	Not Damaged	Not Damaged
	Functioning	Functioning	Functioning	Functioning
wer	Not necessary	Not necessary	Not necessary	Not necessary
	Not Damaged	Not Damaged	Not Damaged	Not Damaged
	Stable (NPS border: 38.5 $\mu$ Sv/h at 6:00)			
	(No info )	(No info )	(No info )	(No info )
	(No info )	(No info )	(No info )	(No info )
	(No info )	(No info )	(No info )	(No info )
	Not necessary	Not necessary	Not necessary	Not necessary
ent Vessel	Not necessary	Not necessary	Not necessary	Not necessary
	Not necessary	Not necessary	Not necessary	Not necessary
	10km from NPS			
	(No Info)			

[Significance]

: low



## Forsyth, Daniel

---

**From:** Forsyth, Daniel  
**Sent:** Wednesday, March 16, 2011 12:46 PM  
**To:** Keefe, Molly  
**Subject:** RE: I got nothing-

Yes, heard back and he understood.

The white steam is the fuel pool boiling. Site boundary dose is around 200 mrem/hr.



## Kauffman, John

---

**From:** Beasley, Benjamin  
**Sent:** Wednesday, March 16, 2011 7:50 AM  
**To:** Kauffman, John  
**Subject:** RE: SBO impact on Mark I's

Please keep a few notes as you and others think of possible issues that may come from this event. In a month or two, when we learn the true sequence of the event, we will pull out the notes and consider what may be reasonable issues to propose. I am putting a reminder in my task list for May to discuss possible issues.

---

**From:** Kauffman, John  
**Sent:** Wednesday, March 16, 2011 7:26 AM  
**To:** Beasley, Benjamin  
**Subject:** RE: SBO impact on Mark I's

Probably a good idea...clearly, there was something wrong with the Rx. Building designs that allowed the three (?) RB explosions. Not sure if the Japanese had hardened vents, but I would assume so. My recollection is that as mods go, it was not an onerous one.

Regarding SBO, it may be appropriate to re-visit the idea of a "bunkered," air-cooled EDG (or multiple EDGs).

Certainly, the Japanese event highlights the importance of CCF....lots to think about. JVK

---

**From:** Beasley, Benjamin  
**Sent:** Tuesday, March 15, 2011 5:02 PM  
**To:** Kauffman, John  
**Subject:** FW: SBO impact on Mark I's

I have been wondering if, after things settle down, you or I should propose a generic issue on extended station blackout.

BB

---

**From:** Lane, John  
**Sent:** Tuesday, March 15, 2011 2:28 PM  
**To:** Beasley, Benjamin  
**Subject:** SBO impact on Mark I's

Ben, FYI--Here is a report from ORNL from the late '80s, a time when NRC was actively studying containment/secondary containment failure issues. It provides a little bit of background information about station blackout studies undertaken then and the impact of SBO on the secondary containment.

The NRC required Mark I's to add a hardened vent around 1990, when it was discovered (probably from NUREG 1150) that the containment was likely to fail (up to 90% likely) as a result of some core melt accidents. The fix was intended to allow for a gradual release of overpressure to maintain the containment integrity as much as possible. I don't know if the Japanese plants added the hardened wetwell vent but with GE/Hitachi right there, I'm sure they are well aware of it.



**From:** Shepherd, James  
**Sent:** Wednesday, March 16, 2011 6:59 AM  
**To:** FSME\_DWMEP\_DURLD\_RDB  
**Subject:** Emailing: TEPCO Press Release Impact to TEPCO's Facilities due to Tohoku-Taiheiyu-Oki Earthquake (as of 200PM).htm

## Corporate Information

---

### Press Releases

---

Press Release (Mar 16,2011)  
Impact to TEPCO's Facilities due to Tohoku-Taiheiyu-Oki Earthquake (as of 2:00PM)

---

Below is the status of TEPCO's major facilities that suffered from the Tohoku-Taiheiyu-Oki Earthquake that occurred at 2:46PM, March 11th 2011.  
\*new items are underlined

[Nuclear Power Station]

Fukushima Daiichi Nuclear Power Station:

Units 1 to 3: shutdown due to earthquake

Units 4 to 6: outage due to regular inspection at the occurrence of earthquake

\*The national government has instructed to evacuate for those local residents within 20km radius of the site periphery and to remain indoors for those local residents within 30km radius of the site periphery.

\*Since the value of radioactive materials (iodine, etc) at the site (outside) measured by monitoring car exceeded the ordinary level, it was determined that a specific incident stipulated in article 15, clause 1 occurred (Extraordinary increase of radiation dose at site boundary).

- 4:17 pm, March 15th at the main gate of the site
- 11:05 pm, March 15th at the main gate of the site

\* Unit 1

The explosive sound and white smoke was confirmed near Unit 1 after the big quake occurred at 3:36pm, March 12th. We have started sea water injection at 8:20 pm and then boric acid into the reactor.

\*Unit 2

At 1:25 pm, March 14th, since the Reactor Core Isolation Cooling System has failed, it was determined that a specific incident stipulated in article 15, clause 1 occurred (failure of reactor cooling function). At 5:17 pm, while the water level in the reactor reached the top of the fuel rod, we have restarted the water injection with the valve operation. At approximately 6:14 am, March 15th, the extraordinary sound was confirmed near the suppression chamber and the pressure inside the



chamber decreased afterwards. It was determined that there is a possibility that something extraordinary happened in the suppression chamber. While sea water injection to the reactor continued, TEPCO employees and workers from other companies not in charge of injection work started tentative evacuation to a safe location. Sea water injection to the reactor is still under operation.

\*Unit 3

At 6:50 am, March 14th, while water injection to the reactor was under operation, the pressure in the reactor containment vessel increased to 530 kPa. As a result, at 7:44 am, it was determined that a specific incident stipulated in article 15, clause 1 occurred (abnormal increase of the pressure of reactor containment vessel). Afterwards, the pressure has gradually decreased (as of 9:05 am, 450 kPa).

At approximately 11:01 am, March 14th, an explosion followed by white smoke occurred near Unit 3. 4 TEPCO employees and 3 workers from other companies (all of them are conscious) have sustained injuries and they were already dispatched to the hospital by ambulances.

\*Unit 4

At approximately 6:00 am, March 15th, an explosive sound occurred and the damage in the 5th floor roof of Unit 4 reactor building was confirmed. At 9:38 am, the fire near the north-west part of 4th floor of Unit 4 reactor building was confirmed. At approximately 11:00 am, TEPCO employee confirmed that the fire was off.

At approximately 5:45 am, a TEPCO employee discovered a fire at the northwest corner of the Nuclear Reactor Building. TEPCO immediately reported this incident to the fire department and the local government and prepared to extinguish the fire. However, during an inspection at approximately 6:15 am, TEPCO staff found no signs of fire.

Fukushima Daini Nuclear Power Station:

Units 1 to 4: shutdown due to earthquake

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

\*As the radiation dose at the site boundary exceeded the limitation, it was determined that a specific incident stipulated in article 15, clause 1 occurred (Extraordinary increase of radiation dose at site boundary) at 9:58 pm, March 14th and at 0:00 am, March 15th.

\*Reactor cooling function was restored and cooling of reactors was conducted. As a result, all reactors achieved cold shutdown: Unit 1 at 5:00 pm, March 14th, Unit 2 at 6:00 pm, March 14th, Unit 3 at 0:15 pm, March 12th, Unit 4 at 7:15 am, March 15th.

\* (Unit 1)

As it is confirmed that the temperature of the Emergency Equipment Cooling Water System<sup>\*1</sup> has increased, at 3:20 pm, March 15th, we stopped the Residual Heat Removal System (B) for the inspection. Subsequently, failure was detected in the power supply facility associated with the pumps of the Emergency Equipment Cooling Water System. At 4:25 pm, March 15th, after replacing the power facility, the pumps and the Residual Heat Removal System (B) have been reactivated.

\* (Unit 4)

As it is confirmed that the pressure at the outlet of the pumps of the Emergency Equipment Cooling Water System<sup>\*1</sup> has been decreased, at 8:05 pm, March 15th, we stopped the Residual Heat Removal System



(B) for the inspection. Subsequently, failure was detected in the power supply facility associated with the pumps of the Emergency Equipment Cooling Water System. At 9:25 pm, March 15th, after replacing the relevant facility, the pumps and the Residual Heat Removal System (B) have been reactivated.

\*1: emergency water system in which cooling water (pure water) circulates which exchanged the heat with sea water in order to cool down bearing pumps and/or heat exchangers etc.

Kashiwazaki Kariwa Nuclear Power Station:

Units 1, 5, 6, 7: normal operation

Units 2 to 4: outage due to regular inspection

[Thermal Power Station]

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

Hitachinaka Thermal Power Station Unit 1: shutdown due to earthquake

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

Ohi Thermal Power Station Unit 2: shutdown due to earthquake

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

[Hydro Power Station]

\* All the stations have been restored.

[Transmission System, etc.]

All substation failed due to the earthquake have been restored.

[Blackout in TEPCO's Service Area]

Total of about 5,100 households are out of power.

Tokyo: 0

Kanagawa Pref.: 0

Tochigi Pref.: 0

Chiba Pref.: 0

Saitama Pref.: 0

Gunma Pref.: 0

Ibaraki Pref.: 5,100

Yamanashi Pref.: 0

Shizuoka Pref.: 0 (east of Fuji River)

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

Backup supply from Shinshinano Conversion Station: 600MW

Backup supply from Sakuma Conversion Station: 300MW

Backup supply from Higashi Shimizu Conversion Station: 100MW

Backup supply from Kitahon Interconnection Facility: 600MW

Considering the critical balance of our power supply capacity and expected power demand forward, in order to avoid unexpected blackout, TEPCO has implemented rolling blackout (planned blackout alternates from one area to another) since yesterday. We will make our utmost to secure the stable power supply as early as possible.

For customers who will be subject to rolling blackout, please be prepared for the announced blackout periods. Also for customers who are not subject to blackouts, TEPCO appreciates your continuous cooperation in reducing electricity usage by avoiding using unnecessary lighting and electrical equipment.

[Others]

Please do NOT touch cut-off electric wires.

In order to prevent fire, please make sure to switch off the electric appliances such as hair drier and to shut down the breaker of distribution board when you leave your house.

For the customer who has in-house power generation, please secure fuel for generator.

[☐ back to page top](#)

LL Right Reserved Copyright 2005-2007 TEPCO

- [Legal Notices](#)

**Kauffman, John**

---

**From:** Kammerer, Annie  
**Sent:** Wednesday, March 16, 2011 5:29 PM  
**To:** RES Distribution  
**Subject:** sharepoint site where latest and greatest seismic Q&As can be found moving forward

Please see the file that contains the latest document at...

<http://portal.nrc.gov/edo/nrr/NRR%20TA/FAQ%20Related%20to%20Events%20Occuring%20in%20Japan/Forms/AllItems.aspx>

We will be updating this daily or almost daily in the foreseeable future. So please go to this site if you'd like to see the latest.

The site gives RES the credit since we're the lead and started it; but there is a big team supporting this that includes staff from RES, NRO, NRR and the regions.

Annie



## Kauffman, John

---

**From:** Beasley, Benjamin  
**Sent:** Wednesday, March 16, 2011 12:03 PM  
**To:** Kauffman, John  
**Subject:** Am I right?

### Article:

"One problem is a lack of data about the nuclear reactors themselves. The NRC task force said the agency has detailed data on what it calls plant fragility — the probability that the expected earthquake would damage the reactor's core — for only one-third of the nation's nuclear plants. That's because only the plants that had been thought to be in areas of higher seismic risk had done detailed studies. For the rest, the scientists had to estimate from other information submitted by plant operators."

### Correction:

The NRC task force had more information for some plants than for others. The difference is based on the type of analysis the plant operator chose to use. Two thirds of the plant operators used a bounding analysis while the other third performed a more detailed analysis. The choice of analysis method was not connected to an area of higher seismic risk.

*INRR*

**From:** Hiland, Patrick  
**To:** Gray, Kathy; Brown, Frederick; Uhle, Jennifer; Skeen, David; Dudes, Laura; Case, Michael; Ruland, William; Holian, Brian  
**Cc:** Evans, Michele; Thorp, John; Thomas, Eric; Collins, Frank; Hasselberg, Rick; Holahan, Gary; OST02 HOC; McGinty, Tim; Lubinski, John  
**Subject:** RE: Staffing the Ops Center 24/7  
**Date:** Wednesday, March 16, 2011 8:51:00 PM

---

Looks fine to me.

*release*

*INRR*

**From:** Gray, Kathy  
**Sent:** Wednesday, March 16, 2011 4:48 PM  
**To:** Brown, Frederick; Uhle, Jennifer; Skeen, David; Dudes, Laura; Hiland, Patrick; Case, Michael; Ruland, William; Holian, Brian  
**Cc:** Evans, Michele; Thorp, John; Thomas, Eric; Collins, Frank; Hasselberg, Rick; Holahan, Gary; OST02 HOC; McGinty, Tim; Lubinski, John  
**Subject:** RE: Staffing the Ops Center 24/7

*release*

RST Directors:

Attached you will find the RST Director schedule for March 19-April 10. If you have any questions or conflicts, please let me know. Thanks!

*INRR*

**From:** Brown, Frederick  
**Sent:** Tuesday, March 15, 2011 9:28 PM  
**To:** Uhle, Jennifer; Skeen, David; Dudes, Laura; Hiland, Patrick; Monninger, John; Case, Michael; Holahan, Gary; Ruland, William; Giitter, Joseph  
**Cc:** Evans, Michele; Thorp, John; Thomas, Eric; Gray, Kathy; Collins, Frank; Hasselberg, Rick  
**Subject:** Re: Staffing the Ops Center 24/7

*release*

I'm going to ask John Thorp to have Kathy Gray coordinate the RST director position for us.

*INSIR*

**From:** OST02 HOC  
**To:** Uhle, Jennifer; Skeen, David; Dudes, Laura; Hiland, Patrick; Monninger, John; Case, Michael; Holahan, Gary; Ruland, William; Brown, Frederick  
**Cc:** Evans, Michele  
**Sent:** Tue Mar 15 18:20:18 2011  
**Subject:** Staffing the Ops Center 24/7

#### RST Directors:

Per EDO direction we plan to staff the Ops Center 24/7 while we have staff dispatched in Japan. And we are currently planning to identify a second team to send to Japan in about 2 weeks, with the idea that they may stay there for an additional two weeks. That would take us out to April 10 or so.

Staffing in the IRC will remain at the current levels for potentially another week. Possibly we will be able to scale back somewhat at that point. The intent is to develop a schedule through April 10 at this point. The immediate focus is to staff for the first week, starting Saturday March 19.

We'd like to have a little more consistency in the staffing of most positions. So we'd

*4/71*

like to staff the **RST director** in 4 day blocks, three shifts each day, starting March 19.

**Fred Brown/Tim McGinty/John Lubinski** has offered to take the lead to coordinate among the potential **RST** Directors to fill the schedule. Please work with him and provide at least the schedule for the first four day block by COB Wednesday March 16.

*Michele*



**From:** [Rivera-Lugo, Richard](#)  
**To:** [Case, Michael](#)  
**Cc:** [Richards, Stuart](#)  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN  
**Date:** Thursday, March 17, 2011 9:40:52 AM  
**Attachments:** [Memo re- Waiver of Work Schedule and Pay Cap Rules for Work in Response to the Events in Japan..pdf](#)

---

Mike,

Should we distribute this memo to all DE staff? Or should I collect the names of those who are working in the Ops center and make sure that they make the necessary arrangements in regards to their HRMS profile?

Richie

*Richard Rivera-Lugo*, EIT, MEM  
Technical Assistant (Acting)  
U.S. Nuclear Regulatory Commission – HQ  
RES/DE  
Ph. 301-251-7652  
Fax 301-251-7420  
Mail M.S. C5C07M  
E-mail [Richard.Rivera-Lugo@nrc.gov](mailto:Richard.Rivera-Lugo@nrc.gov)



Please consider the Environment before printing this e-mail.

---

**From:** Flory, Shirley **On Behalf Of** RidsResOd Resource  
**Sent:** Thursday, March 17, 2011 9:18 AM  
**To:** Rini, Brett; Armstrong, Kenneth; Ibarra, Jose; Rivera-Lugo, Richard; Case, Michael; Coe, Doug; Coyne, Kevin; Gibson, Kathy; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Sheron, Brian; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

---

**From:** RidsResPmdaMail Resource  
**Sent:** Thursday, March 17, 2011 8:50 AM  
**To:** Valentin, Andrea; RidsResOd Resource  
**Cc:** Donaldson, Leslie; Chan, Deborah; Isakovic, Nadja  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

Please read the following memo in response to work schedules and pay cap for Japan response.

Thanks,  
Heather

---

**From:** Khan, Charline (HR)  
**Sent:** Thursday, March 17, 2011 7:29 AM

✓/92

**To:** RidsAcrsAcnw\_MailCTR Resource; RidsAslbpManagement Resource; RidsOgcMailCenter Resource; RidsOcaaMailCenter Resource; RidsOcfoMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; RidsOcaMailCenter Resource; RidsOpaMail Resource; RidsSecyMailCenter Resource; RidsSecyCorrespondenceMCTR Resource; RidsEdoMailCenter Resource; RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsOeMailCenter Resource; RidsFsmeOd Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsHrMailCenter Resource; RidsNroOd Resource; RidsNroMailCenter Resource; RidsNmssOd Resource; RidsNrrOd Resource; RidsNrrMailCenter Resource; RidsResOd Resource; RidsResPmdaMail Resource; RidsSbcrMailCenter Resource; RidsNsirOd Resource; RidsNsirMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource

**Cc:** Davidson, Lawrence; Buchholz, Jeri; Johns, Nancy

**Subject:** WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by J. Buchholz for/  
Office of Human Resources

DATED: March 16, 2011

**SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN  
RESPONSE TO THE EVENTS IN JAPAN**

ADAMS Accession No. ML11075A003 refers

**NOTE: Electronic distribution only**

*Charline Khan*

**Administrative Assistant (Rotation)**

**U.S. NUCLEAR REGULATORY COMMISSION**

**Office of Human Resources**

**P:301-492-2318**

**Charline.Khan@nrc.gov**

March 16, 2011

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/**RA by J. Buchholz for/**  
Office of Human Resources

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR  
WORK IN RESPONSE TO THE EVENTS IN JAPAN

I have approved a waiver of the U.S. Nuclear Regulatory Commission (NRC) work schedule rules, as well as a waiver of the biweekly cap on combined salary plus premium pay, for NRC employees serving in and supporting the NRC Operations Center, as well as NRC employees working in Japan, in response to the current, serious nuclear power plant issues in that country.

#### Work Schedule Limitations

NRC permits a variety of types of work schedules, including 5-4/9 compressed work schedules (CWS) and NEWFlex flexible work schedules that include limitations on permissible workdays and working clock hours. Other types of work schedules, including Expanded-Compressed work schedules (E-CWS) in emergency situations, and First-40 work schedules in unusual situations, do not contain such limitations. A summary of work schedule options may be found on the intranet at <http://www.internal.nrc.gov/HR/work-schedule.html>.

I have approved a waiver of limitations on permissible workdays and working clock hours for NRC employees working in response to these events. As a result, employees on 5-4/9 CWS may work weekends, employees on NEWFlex may work Sundays, and employees on both types of work schedules may work any clock hours, as appropriate (an exception to the 11.25 hour maximum limitation on NEWFlex workdays is not possible).

#### Biweekly Cap

As a matter of Federal-wide law and regulations, employees who are exempt from the Fair Labor Standards Act (most NRC employees are exempt) normally are subject to a biweekly cap on combined salary plus premium pay. This year, the cap is equal to the salary for GG-15 step 10. Premium pay includes the following categories: night premium pay, Sunday premium pay, holiday premium pay, overtime premium pay, and "regular" compensatory time off (not religious compensatory time off or Special Compensatory Time Off for Travel).

For further details, please see the February 3, 2011, NRC Announcement entitled "Employee Resources: 2011 Cap on Combined Salary Plus Premium Pay," available on the intranet at <http://www.internal.nrc.gov/announcements/items/7625.html>.



### Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

### Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

MEMORANDUM TO THOSE ON THE ATTACHED LIST DATED: March 16, 2011

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK  
IN RESPONSE TO THE EVENTS IN JAPAN

Edwin M. Hackett, Executive Director, Advisory Committee on Reactor Safeguards	RidsAcrsAcnw_MailCTR Resource
E. Roy Hawkens, Chief Administrative Judge, Atomic Safety and Licensing Board Panel	RidsAslbpManagement Resource
Stephen G. Burns, General Counsel	RidsOgcMailCenter Resource
Brooke D. Poole, Director, Office of Commission Appellate Adjudication	RidsOcaaMailCenter Resource
James E. Dyer, Chief Financial Officer	RidsOcfoMailCenter Resource
Hubert T. Bell, Inspector General	RidsOigMailCenter Resource
Margaret M. Doane, Director, Office of International Programs	RidsOipMailCenter Resource
Rebecca L. Schmidt, Director, Office of Congressional Affairs	RidsOcaMailCenter Resource
Eliot B. Brenner, Director, Office of Public Affairs	RidsOpaMail Resource
Annette Vietti-Cook, Secretary of the Commission	RidsSecyMailCenter Resource
	RidsSecyCorrespondenceMCTR Resource
R. William Borchardt, Executive Director for Operations	RidsEdoMailCenter Resource
Michael F. Weber, Deputy Executive Director for Materials, Waste, Research, State, Tribal, and Compliance Programs, OEDO	RidsEdoMailCenter Resource
Darren B. Ash, Deputy Executive Director for Corporate Management, OEDO	RidsEdoMailCenter Resource
Martin J. Virgilio, Deputy Executive Director for Reactor and Preparedness Programs, OEDO	RidsEdoMailCenter Resource
Mary C. Muessle, Acting Assistant for Operations, OEDO	RidsEdoMailCenter Resource
Kathryn O. Greene, Director, Office of Administration	RidsAdmMailCenter Resource
Patrick D. Howard, Director, Computer Security Office	RidsCsoMailCenter Resource
Roy P. Zimmerman, Director, Office of Enforcement	RidsOeMailCenter Resource
Charles L. Miller, Director, Office of Federal and State Materials and Environmental Management Programs	RidsFsmeOd Resource
Cheryl L. McCrary, Director, Office of Investigations	RidsOiMailCenter Resource
Thomas M. Boyce, Director, Office of Information Services	RidsOis Resource
Miriam L. Cohen, Director, Office of Human Resources	RidsHRMailCenter Resource
Michael R. Johnson, Director, Office of New Reactors	RidsNroOd Resource
	RidsNroMailCenter Resource
Catherine Haney, Director, Office of Nuclear Material Safety and Safeguards	RidsNmssOd Resource
Eric J. Leeds, Director, Office of Nuclear Reactor Regulation	RidsNrrOd Resource
	RidsNrrMailCenter Resource
Brian W. Sheron, Director, Office of Nuclear Regulatory Research	RidsResOd Resource
	RidsResPmdaMail Resource
Corenthis B. Kelley, Director, Office of Small Business and Civil Rights	RidsSbcrMailCenter Resource
James T. Wiggins, Director, Office of Nuclear Security and Incident Response	RidsNsirOd Resource
William M. Dean, Regional Administrator, Region I	RidsNsirMailCenter Resource
Victor M. McCree, Regional Administrator, Region II	RidsRgn1MailCenter Resource
Mark A. Satorius, Regional Administrator, Region III	RidsRgn2MailCenter Resource
Elmo E. Collins, Jr., Regional Administrator, Region IV	RidsRgn3MailCenter Resource
	RidsRgn4MailCenter Resource

Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

**DISTRIBUTION:**

HR r/f

DIRECTORY/SUBDIRECTORY: G:\HRPP\PAY

DOCUMENT NAME: Waiver of Biweekly Cap for Japan Response.docx

WITS/EDO/HR TICKET NO. :

SUBJECT FILE FOLDER NAME:

ADAMS ACCESSION NUMBER: ML11075A003

☐ Publicly Available      ☒ Non-Publicly Available    ☐ Sensitive      ☒ Non-Sensitive

OFFICE	HR/HRPP	HR/HRPP	HR/HROP	HR/ODD	HR/OD
NAME	LDavidson	NJohns LDavidson for	JBuchholz	GTracy JBuchholz for	MCohen JBuchholz for
DATE	3/16/2011	3/16/2011	3/16/2011	3/16/2011	3/16/2011

**OFFICIAL RECORD COPY**



Attachment NRC\_8.joboptions (13738 Bytes) cannot be converted to PDF format.

**From:** [Rivera-Lugo, Richard](#)  
**To:** [Csontos, Aladar](#); [Gavrilas, Mirela](#); [Boyce, Tom \(RES\)](#); [Sydnor, Russell](#); [Koshy, Thomas](#); [Hogan, Rosemary](#); [Graves, Herman](#)  
**Cc:** [Case, Michael](#); [Richards, Stuart](#)  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN  
**Date:** Thursday, March 17, 2011 11:16:29 AM  
**Attachments:** [Memo re- Waiver of Work Schedule and Pay Cap Rules for Work in Response to the Events in Japan..pdf](#)

---

Branch Chiefs,

Please read the attached memo from the Office of HR on the recently granted waiver of work schedule and pay caps due to the events in Japan. Make sure that any of your staff who are providing support at the Ops Center or in any other way directly related to the events in Japan do the appropriate adjustments in their HRMS accounts.

More detailed information and points of contact are provided in the memo.

Thanks,  
Richie

*Richard Rivera-Lugo*, EIT, MEM  
Technical Assistant (Acting)  
U.S. Nuclear Regulatory Commission – HQ  
RES/DE  
Ph. 301-251-7652  
Fax 301-251-7420  
Mail M.S. C5C07M  
E-mail [Richard.Rivera-Lugo@nrc.gov](mailto:Richard.Rivera-Lugo@nrc.gov)



Please consider the Environment before printing this e-mail.

---

**From:** Flory, Shirley **On Behalf Of** RidsResOd Resource  
**Sent:** Thursday, March 17, 2011 9:18 AM  
**To:** Rini, Brett; Armstrong, Kenneth; Ibarra, Jose; Rivera-Lugo, Richard; Case, Michael; Coe, Doug; Coyne, Kevin; Gibson, Kathy; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Sheron, Brian; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

---

**From:** RidsResPmdaMail Resource  
**Sent:** Thursday, March 17, 2011 8:50 AM  
**To:** Valentin, Andrea; RidsResOd Resource  
**Cc:** Donaldson, Leslie; Chan, Deborah; Isakovic, Nadja  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

Please read the following memo in response to work schedules and pay cap for Japan response.

Thanks,

U/73

Heather

**From:** Khan, Charline (HR)

**Sent:** Thursday, March 17, 2011 7:29 AM

**To:** RidsAcraAcnw\_MailCTR Resource; RidsAslbpManagement Resource; RidsOgcMailCenter Resource; RidsOcaaMailCenter Resource; RidsOcfoMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; RidsOcaMailCenter Resource; RidsOpaMail Resource; RidsSecyMailCenter Resource; RidsSecyCorrespondenceMCTR Resource; RidsEdoMailCenter Resource; RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsOeMailCenter Resource; RidsFsmeOd Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsHrMailCenter Resource; RidsNroOd Resource; RidsNroMailCenter Resource; RidsNmssOd Resource; RidsNrrOd Resource; RidsNrrMailCenter Resource; RidsResOd Resource; RidsResPmdaMail Resource; RidsSbcrMailCenter Resource; RidsNsirOd Resource; RidsNsirMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource

**Cc:** Davidson, Lawrence; Buchholz, Jeri; Johns, Nancy

**Subject:** WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by J. Buchholz for/  
Office of Human Resources

DATED: March 16, 2011

**SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN  
RESPONSE TO THE EVENTS IN JAPAN**

ADAMS Accession No. ML11075A003 refers

**NOTE: Electronic distribution only**

*Charline Khan*

**Administrative Assistant (Rotation)**

**U.S. NUCLEAR REGULATORY COMMISSION**

**Office of Human Resources**

**P:301-492-2318**

**Charline.Khan@nrc.gov**

March 16, 2011

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/**RA by J. Buchholz for/**  
Office of Human Resources

SUBJECT: **WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR  
WORK IN RESPONSE TO THE EVENTS IN JAPAN**

I have approved a waiver of the U.S. Nuclear Regulatory Commission (NRC) work schedule rules, as well as a waiver of the biweekly cap on combined salary plus premium pay, for NRC employees serving in and supporting the NRC Operations Center, as well as NRC employees working in Japan, in response to the current, serious nuclear power plant issues in that country.

#### Work Schedule Limitations

NRC permits a variety of types of work schedules, including 5-4/9 compressed work schedules (CWS) and NEWFlex flexible work schedules that include limitations on permissible workdays and working clock hours. Other types of work schedules, including Expanded-Compressed work schedules (E-CWS) in emergency situations, and First-40 work schedules in unusual situations, do not contain such limitations. A summary of work schedule options may be found on the intranet at <http://www.internal.nrc.gov/HR/work-schedule.html>.

I have approved a waiver of limitations on permissible workdays and working clock hours for NRC employees working in response to these events. As a result, employees on 5-4/9 CWS may work weekends, employees on NEWFlex may work Sundays, and employees on both types of work schedules may work any clock hours, as appropriate (an exception to the 11.25 hour maximum limitation on NEWFlex workdays is not possible).

#### Biweekly Cap

As a matter of Federal-wide law and regulations, employees who are exempt from the Fair Labor Standards Act (most NRC employees are exempt) normally are subject to a biweekly cap on combined salary plus premium pay. This year, the cap is equal to the salary for GG-15 step 10. Premium pay includes the following categories: night premium pay, Sunday premium pay, holiday premium pay, overtime premium pay, and "regular" compensatory time off (not religious compensatory time off or Special Compensatory Time Off for Travel).

For further details, please see the February 3, 2011, NRC Announcement entitled "Employee Resources: 2011 Cap on Combined Salary Plus Premium Pay," available on the intranet at <http://www.internal.nrc.gov/announcements/items/7625.html>.

Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).



Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

**DISTRIBUTION:**

HR r/f

DIRECTORY/SUBDIRECTORY: G:\HRPP\PAY

DOCUMENT NAME: Waiver of Biweekly Cap for Japan Response.docx

WITS/EDO/HR TICKET NO. :

SUBJECT FILE FOLDER NAME:

ADAMS ACCESSION NUMBER: ML11075A003

☐ Publicly Available    ☒ Non-Publicly Available    ☐ Sensitive    ☒ Non-Sensitive

OFFICE	HR/HRPP	HR/HRPP	HR/HROP	HR/ODD	HR/OD
NAME	LDavidson	NJohns LDavidson for	JBuchholz	GTracy JBuchholz for	MCohen JBuchholz for
DATE	3/16/2011	3/16/2011	3/16/2011	3/16/2011	3/16/2011

**OFFICIAL RECORD COPY**

MEMORANDUM TO THOSE ON THE ATTACHED LIST DATED: March 16, 2011

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK  
IN RESPONSE TO THE EVENTS IN JAPAN

Edwin M. Hackett, Executive Director, Advisory Committee on Reactor Safeguards	RidsAcrsAcnw_MailCTR Resource
E. Roy Hawkens, Chief Administrative Judge, Atomic Safety and Licensing Board Panel	RidsAslbpManagement Resource
Stephen G. Burns, General Counsel	RidsOgcMailCenter Resource
Brooke D. Poole, Director, Office of Commission Appellate Adjudication	RidsOcaaMailCenter Resource
James E. Dyer, Chief Financial Officer	RidsOcfoMailCenter Resource
Hubert T. Bell, Inspector General	RidsOigMailCenter Resource
Margaret M. Doane, Director, Office of International Programs	RidsOipMailCenter Resource
Rebecca L. Schmidt, Director, Office of Congressional Affairs	RidsOcaMailCenter Resource
Eliot B. Brenner, Director, Office of Public Affairs	RidsOpaMail Resource
Annette Vietti-Cook, Secretary of the Commission	RidsSecyMailCenter Resource
	RidsSecyCorrespondenceMCTR Resource
R. William Borchardt, Executive Director for Operations	RidsEdoMailCenter Resource
Michael F. Weber, Deputy Executive Director for Materials, Waste, Research, State, Tribal, and Compliance Programs, OEDO	RidsEdoMailCenter Resource
Darren B. Ash, Deputy Executive Director for Corporate Management, OEDO	RidsEdoMailCenter Resource
Martin J. Virgilio, Deputy Executive Director for Reactor and Preparedness Programs, OEDO	RidsEdoMailCenter Resource
Mary C. Muessle, Acting Assistant for Operations, OEDO	RidsEdoMailCenter Resource
Kathryn O. Greene, Director, Office of Administration	RidsAdmMailCenter Resource
Patrick D. Howard, Director, Computer Security Office	RidsCsoMailCenter Resource
Roy P. Zimmerman, Director, Office of Enforcement	RidsOeMailCenter Resource
Charles L. Miller, Director, Office of Federal and State Materials and Environmental Management Programs	RidsFsmeOd Resource
Cheryl L. McCrary, Director, Office of Investigations	RidsOiMailCenter Resource
Thomas M. Boyce, Director, Office of Information Services	RidsOis Resource
Miriam L. Cohen, Director, Office of Human Resources	RidsHRMailCenter Resource
Michael R. Johnson, Director, Office of New Reactors	RidsNroOd Resource
	RidsNroMailCenter Resource
Catherine Haney, Director, Office of Nuclear Material Safety and Safeguards	RidsNmssOd Resource
Eric J. Leeds, Director, Office of Nuclear Reactor Regulation	RidsNrrOd Resource
	RidsNrrMailCenter Resource
Brian W. Sheron, Director, Office of Nuclear Regulatory Research	RidsResOd Resource
	RidsResPmdaMail Resource
Corenthis B. Kelley, Director, Office of Small Business and Civil Rights	RidsSbcrMailCenter Resource
James T. Wiggins, Director, Office of Nuclear Security and Incident Response	RidsNsirOd Resource
William M. Dean, Regional Administrator, Region I	RidsNsirMailCenter Resource
Victor M. McCree, Regional Administrator, Region II	RidsRgn1MailCenter Resource
Mark A. Satorius, Regional Administrator, Region III	RidsRgn2MailCenter Resource
Elmo E. Collins, Jr., Regional Administrator, Region IV	RidsRgn3MailCenter Resource
	RidsRgn4MailCenter Resource

Attachment NRC\_10.joboptions (13738 Bytes) cannot be converted to PDF format.

**From:** Sheron, Brian  
**To:** Coyne, Kevin; Bonaccorso, Amy; Calvo, Antony; Case, Michael; Coe, Doug; Correia, Richard; Dion, Jeanne; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Rini, Brett; Sangimino, Donna-Marie; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN  
**Date:** Thursday, March 17, 2011 9:55:22 AM

---

Andrea, can PMDA take the lead to collect the list of names of staff that are performing emergency-related premium work and the dates that the people worked. Divisions should supply this information to Andrea. Thanks.

---

**From:** Flory, Shirley **On Behalf Of** RidsResOd Resource  
**Sent:** Thursday, March 17, 2011 9:18 AM  
**To:** Rini, Brett; Armstrong, Kenneth; Ibarra, Jose; Rivera-Lugo, Richard; Case, Michael; Coe, Doug; Coyne, Kevin; Gibson, Kathy; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Sheron, Brian; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

---

**From:** RidsResPmdaMail Resource  
**Sent:** Thursday, March 17, 2011 8:50 AM  
**To:** Valentin, Andrea; RidsResOd Resource  
**Cc:** Donaldson, Leslie; Chan, Deborah; Isakovic, Nadja  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

Please read the following memo in response to work schedules and pay cap for Japan response.

Thanks,  
Heather

---

**From:** Khan, Charline (HR)  
**Sent:** Thursday, March 17, 2011 7:29 AM  
**To:** RidsAcraAcnw\_MailCTR Resource; RidsAslbpManagement Resource; RidsOgcMailCenter Resource; RidsOcaaMailCenter Resource; RidsOcofMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; RidsOcaMailCenter Resource; RidsOpaMail Resource; RidsSecyMailCenter Resource; RidsSecyCorrespondenceMCTR Resource; RidsEdoMailCenter Resource; RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsOeMailCenter Resource; RidsFsmeOd Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsHrMailCenter Resource; RidsNroOd Resource; RidsNroMailCenter Resource; RidsNmssOd Resource; RidsNrrOd Resource; RidsNrrMailCenter Resource; RidsResOd Resource; RidsResPmdaMail Resource; RidsSbcrMailCenter Resource; RidsNsirOd Resource; RidsNsirMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource  
**Cc:** Davidson, Lawrence; Buchholz, Jeri; Johns, Nancy  
**Subject:** WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by J. Buchholz for/

4/74

Office of Human Resources

DATED: March 16, 2011

**SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN  
RESPONSE TO THE EVENTS IN JAPAN**

ADAMS Accession No. ML11075A003 refers

**NOTE: Electronic distribution only**

*Charline Khan*

**Administrative Assistant (Rotation)**

**U.S. NUCLEAR REGULATORY COMMISSION**

**Office of Human Resources**

**P:301-492-2318**

**Charline.Khan@nrc.gov**



From:  
To:

Davidson, Lawrence

1HK  
Abraham, Susan; Abrams, Charlotte; Ader, Charles; Akstulewicz, Frank; Albert, Ronald; Allwein, Russell; Alston, Timothy; Andersen, James; Anderson, Joseph; Armentrout, Deborah; Ash, Darren; Ash, Melissa; Astwood, Heather; Auluck, Rajender; Austin, Joseph; Ayres, David; Bahadur, Sher; Bailey, Marissa; Bailey, Stewart; Baker, Pamela; Banas, Paul; Barss, Dan; Bartlett, Bruce; Bartley, Jonathan; Bartley, Malion; Batkin, Joshua; Baum, Robin; Bayliff, Shirley; Beardsley, James; Beasley, Benjamin; Bell, Hubert; Bell, Marvin; Bellamy, Ronald; Bellinger, Alesha; Benjamin, Jamie; Benner, Eric; Benney, Brian; Bergman, Thomas; Biggins, James; Bladey, Cindy; Blamey, Alan; Bloom, Steven; Bloomer, Tamara; Blount, Tom; Boger, Bruce; Boland, Anne; Bolduc, Angela; Bonser, Brian; Borchardt, Bill; Borden, William; Bouling, Ramona; Bower, Fred; Bower, Phyllis; Boyce, Tom (RES); Boyce, Thomas (OIS); Brady, Joseph; Brenner, Eliot; Brezovec, Michael; Broadus, Doug; Brooks, Kenneth; Brown, Frederick; Brown, Tony; Brown, Milton; Brown, Rohn; Bubar, Patrice; Buchholz, Jeri; Buckley, Michael; Bumpass, Sheila; Burns, Stephen; Burritt, Arthur; Burton, Stephen; Burton, William; Bush-Goddard, Stephanie; Cain, Chuck; Caldwell, Robert; Calle, Joselito; Cameron, Jamnes; Campbell, Andy; Campbell, Larry; Campbell, Stephen; Campbell, Vivian; Camper, Larry; Caniano, Roy; Cardenas, Daniel; Carlson, Robert; Carpenter, Cynthia; Case, Michael; Casto, Chuck; Casto, Greg; Cataldo, Paul; Catts, Michelle; Champion, Bryan; Chang, Helen; Chang, Lydia; Cheok, Michael; Chernoff, Harold; Chernoff, Margaret; Chokshi, Niles; Christensen, Harold; Clark, Jeff; Clay, Earnestine; Clayton, Brent; Clifford, James; Cobey, Eugene; Cochrum, Steven; Coe, Doug; Cohen, Miriam; Cohen, Ronald; Cohen, Stephen; Colaccino, Joseph; Coleman, Judy; Collins, Daniel; Collins, Elmo; Conte, Richard; Cook, Christopher; Corbett, James; Cordes, John; Correia, Richard; Costello, Ralph; Coyne, Kevin; Croteau, Rick; Crowe, Eddy; Cruz, Jeffrey; Csontos, Aladar; Cubbage, Amy; Cubellis, Louis; Cullison, David; Curtis, David; Daley, Robert; Daly, Jill; Dambly, Jan; Daniel, Susan; Danna, James; Dapas, Marc; Davis, Henry; Davis, Jack; Davis, Marlene; Dean, Michael; Dean, Bill; Dehn, Janine; Delligatti, Mark; Dembek, Stephen; Demoss, Gary; Dennig, Robert; Dentel, Glenn; Desai, Binoy; Dias, Antonio; Diaz-Toro, Diana; Dickson, Billy; Dingbaum, Stephen; DiPaolo, Eugene; Dixon, John; Dixon-Herrity, Jennifer; Doane, Margaret; Dodmead, James; Doerflein, Lawrence; Donaldson, Leslie; Donnell, Tremaine; Donoghue, Joseph; Doornbos, Roger; Dorman, Dan; Dorsey, Jeryll; Dosch, William; Dreisbach, Jason; Drogitis, Spiros; Dudes, Laura; Dumbacher, David; Duncan, Eric; Dwyer, James; Dyer, Jim; Eads, Johnny; Easson, Pamela; Egan, Dennis; Egli, Richard; Einberg, Christian; Elkins, Scott; Ellegood, John; Elliott, Robert; Ellsbury, Richard; Erlanger, Craig; Ernstes, Michael; Brown, Cris; Evans, Carolyn; Michele.ca@nrc.gov; Farnholtz, Thomas; Felts, Russell; Fenton, Darlene; Ferdas, Marc; Ferrell, Kimberly; Ficks, Ben; Fields, Leslie; Finney, Patrick; Fitch, Karen; Flanders, Scott; Flynn, Sean; Foster, Jack; Franke, Mark; Franovich, Rani; Fredericks, Carl; Freeman, Scott; Fretz, Robert; Frumkin, Daniel; Frye, Timothy; Fuller, Michael; Gaddy, Vincent; Gallo, Jenny; Galloway, Melanie; Gartman, Michael; Gavrilas, Mirela; Giantelli, Adelaide; Gibson, Kathy; Giessner, John; Glitter, Joseph; Givvines, Mary; Gody, Tony; Golder, Jennifer; Golshan, KG; Gorham, Tajuan; Gott, William; Graham, Thorne; Grancovitz, Teresa; Grant, Jeffery; Graser, Dan; Gray, Mel; Greene, Kathryn; Grice, Thomas; Griffin, Steven; Grobe, Jack; Hawkins, Kimberly; Gusack, Barbara; Guthrie, Eugene; Guttmann, Jack; Haag, Robert; Habighorst, Peter; Hackett, Edwin; Haeg, Lucas; Haire, Mark; Hall, Donald; Hall, Patricia; Hamzehee, Hossein; Haney, Catherine; Hansell, Samuel; Harris, Tim; Harrison, Donnie; Hatchett, Gregory; Hawken, Roy; Hay, Michael; Hayden, Elizabeth; Hays, Myra; Heck, James; Heck, Jared; Helton, Shana; Henderson, Pamela; Hickey, James; Hiland, Patrick; Hills, David; Hilton, Nick; Hiltz, Thomas; Hirsch, Patricia; Hoeg, Tim; Hogan, Rosemary; Holahan, Gary; Holahan, Patricia; Holian, Brian; Holland, Crystal; Holody, Daniel; Holonich, Joseph; Holt, BJ; Hopper, George; Howard, Patrick; Howe, Allen; Howell, Art; Howell, Linda; Hoxie, Chris; Hsia, Anthony; Hsu, Caroline; Hsueh, Kevin; Huber, Deborah; Hudson, Jody; Humerick, David; Hunegs, Gordon; Hunter, James; Huth, Virginia; Hutto, Andy; Huyck, Doug; Imboden, Andy; Itzkowitz, Marvin; Jackson, Deborah; Jackson, Donald; Jackson, Terry; James, Lois; Jankovich, John; Janney, Margie; Jarvis, Rodney; Jenkins, Ronaldo; Jernell, Eleni; Johns, Nancy; Johnson, Michael; Johnson, Clay; Johnson, Robert; Jolicœur, John; Jones, Bradley; Jones, Evan; Jones, William; Josey, Jeffrey; Joustra, Judith; Julian, Emile; Jung, Ian; Junge, Michael; Kahler, Robert; Kaplan, Michele; Karas, Rebecca; Kellar, Ray; Kelley, Corentis; Kemerer, Myron; Kemker, Brian; Kennedy, Kriss; Kennedy, Silas; Kerben, Valerie; Kern, David; Khanna, Meena; Kim, Yong; Kimble, Daniel; King, Donald; King, Michael; Kinneman, John; Kirkland, John; Kirkwood, Sara; Klein, Alex; Knutson, Ed; Kobetz, Timothy; Kokajko, Lawrence; Kolaczky, Kenneth; Konzman, Carl; Koshy, Thomas; Kowal, Mark; Kramer, John; Krohn, Paul; Krsek, Robert; Krupnick, David; Kulesa, Gloria; Kulp, Jeffrey; Kunowski, Michael; Lam, Donna; Lambert, Kenneth; Landau, Mindy; Langan, Scott; Lankford, Jeffrey; Lantz, Ryan; Lara, Julio; Larkin, Grant; Laura, Richard; Layton, Michael; Le, Hong; Lee, Bert; Lee, David; Lee, Richard; Lee, Samson; Lee, Samuel; Leeds, Eric; Lennartz, Jay; Lesser, Mark; Lew, David; Lewis, Robert; Lipa, Christine; Lombard, Mark; Long, Chris; Lopez, Joseph; Lorson, Raymond; Loudon, Patrick; Lubinski, John; Luehman, James; Lui, Christiana; Lukes, Robert; Lund, Louise; Lupold, Timothy; Lyons-Burke, Kathy; Ma, May; Madden, Patrick; Madison, Wil; Magruder, Stewart; Mamish, Nader; Marklev, Michael; Marshall, Jane; Marshfield, Mark; Martin, Gillian; Masnik, Michael; Masse, Todd; Matheson, Mary; Mathew, Roy; Matthews, David; Mattingley, Joel; Maxin, Mark; Mayfield, Michael; McCann, Carrie; McConnell, Keith; McCoppin, Michael; McCoy, Gerald; McCrary, Cheryl; McCree, Victor; McDermott, Brian; McGhee, James; McGill, Clinton; McGinty, Tim; McGowan, Anna; McHale, John; McKelvey, Harold; McKenna, Eileen; McKenney, Christopher; McKirgan, John; McMillan, Joseph; McMurtry, Anthony; Mendiola, Anthony; Meyer, David; Michalak, Paul; Miller, Charles; Miller, Chris; Miller, Geoffrey; Miller, Marie; Miller, Mark; Miller, Michael; Miotla, Sherri; Mitchell, Matthew; Mitchell, Reggie; Mohseni, Aby; Monk, Robert; Monninger, John; Montgomery, Jack; Moore, Scott; Moore, Thomas; Moorman, James; Morris, Eddie; Morris, James; Morris, R. Michael; Morris, Scott; Morrissey, Thomas; Moulding, Patrick; Moy, Romona; Mrowca, Lynn; Muessle, Mary; Munday, Joel; Murphy, Jerome; Murphy, Martin; Musser, Randy; Narick, Marianne; Nazario, Tony; Nease, Rebecca; Neff, Deborah; Nelson, Robert; Nichols, Russell; Nieh, Ho; Norato, Michael; Norris, Michael; Nute-Blackshear, Lora; OBrien, Kenneth; OBryan, Phil; O'Donohue, Kathleen; Offutt, David; Ogle, Chuck; OKeefe, Neil; Okleson, Edward; Ordaz, Vonna; Orth, Steven; O'Sullivan, Kevin; Ott, William; Ousley, Elizabeth; Owens, Janice; Paradiso, Karen; Partlow, Benjamin; Pascarelli, Robert; Peck, Michael; Pederson, Cynthia; Pelke, Patricia; Pellet, John; Pelton, David; Peralta, Juan; Perry, Jamila; Perry, Neil; Persinko, Andrew; Peters, Sean; Peterson, Gordon; Peterson, Hironori; Pham, Bo; Phillips, Charles; Piccone, Josephine; Pool, Stephen; Poole, Brooke; Powell, Amy; Powell, Dawn; Powell, Raymond; Prescott, Peter; Pretzello, Andrew; Price, Georgette; Pruett, Troy; Pstrak, David; Pulliam, Timothy;



Quay, Theodore; Quichocho, Jessie; Rabideau, Peter; Rahimi, Meraj; Raione, Richard; Rajnic, Cecilia; Ramirez, Frances; Rasmussen, Richard; Rasouli, Houman; Raspa, Rossana; Rayland, Andrew; Raymond, William; Reckley, William; Reddick, Darani; Reece, James; Regan, Christopher; Reis, Terrence; Remsburg, Kristy; Reynolds, Steven; Reynoso, John; Rheume, Cynthia; Ricci, John; Rich, Daniel; Rich, Thomas; Richards, Stuart; Ricketts, Paul; Riemer, Kenneth; Ring, Mark; Roach, Edward; Roach, Gregory; Roberts, Darrell; Rodgers, Felecia; Rogge, John; Rosenberg, Stacey; Ross, Thierry; Ross-Lee, MaryJane; Rothschild, Trip; Rough, Richard; Rowhani, Bahman; Royal, Judith; Rubenstone, James; Rubic, Mark; Ruiz, Robert; Ruland, William; Rule, David; Rutkowski, John; Rutledge, Steven; Rzepka, Robert; Sabisch, Andrew; Safford, Carrie; Salgado, Nancy; Salley, MarkHenry; Salter, Susan; Sanchez, Alba; Sanchez, Alfred; Sangimino, Donna-Marie; Santiago, Patricia; Santos, Cavetano; Sargent, Kimberly; Satorius, Mark; Schaaf, Robert; Schaeffer, James; Schmidt, Rebecca; Schneider, Max; Schnetzler, Bonnie; Schoenmann, Sandra; Schroeder, Daniel; Schum, Constance; Scott, Catherine; Scott, Michael; Sealing, Donna; Segala, John; Serepca, Beth; Seymour, Deborah; Shaeffer, Scott; Shaffer, Steve; Shannon, Mel; Shannon, Michael; Sharkey, Jeffrey; Shay, Jason; Shear, Gary; Shehee, James; Sheron, Brian; Shields, James; Shoop, Undine; Shuaibi, Mohammed; Silva, Patricia; Simms, Sophonia; Skeen, David; Skokowski, Richard; Smith, Arthur; Smith, Brian; Smith, Galen; Smith, Rich; Smith, Tuwanda; Solorio, Dave; Sosa, Belkys; Sotiropoulos, Dina; Spencer, Mary; Spindler, David; Spitzberg, Blair; StAmour, Norman; Stablein, King; Stapleton, Bernard; Stetson, Kathleen; Stewart, Scott; Stewart, Sharon; Stoedter, Karla; Stone, AnnMarie; Suber, Gregory; Subosits, Stephen; Sullivan, Allen; Swain, Karol; Sydnor, Russell; Sykes, Marvin; Szyperski, Bill; Tailleart, Don; Talley, Sandra; Tappert, John; Tate, Travis; Taylor, Robert; Tenaglia, Mickey; Terao, David; Terry, Leslie; Thaggard, Mark; Thomas, Brian; Thomas, Christopher; Thorp, John; Tonacci, Mark; Tracy, Glenn; Tran, Tu; Trapp, James; Travick, Vanette; Trent, Glenn; Tschiltz, Michael; Turner, Joseph; Turtill, Richard; Uhle, Jennifer; Ulses, Anthony; Usilton, William; Valentin, Andrea; Vogel, Anton; Vias, Steven; Vietti-Cook, Annette; Virgilio, Martin; VonTill, Bill; Voytko, Victoria; Walker, Tracy; Walker, Wayne; Wall, Scott; Warnick, Greg; Wastler, Sandra; Waters, Michael; Watson, Bruce; Weaver, Doug; Webber, Robert; Weber, Michael; Weerakkody, Sunil; Welling, Blake; Werkheiser, David; Werner, Greg; Wert, Leonard; West, Garmon; West, Steven; Westreich, Barry; Whetstone, Jack; White, Duncan; White, Darrell; Whited, Ryan; Whitten, Jack; Widdup, Joseph; Widmann, Malcolm; Wiggins, Jim; Williams, Barbara; Williams, Evelyn; Williams, Kevin; Williams, Michael; Williams, Mona; Williams-Johnson, Patrice; Williamson, Edward; Wilson, Ernest; Wilson, George; Wilson, Peter; Wood, Gene; Wood, Kent; Wright, Lisa (Gibney); Wrona, David; Wunder, George; Yerokun, Jimi; Young, Cale; Young, Mitzi; Zane, Steven; Zeiler, John; Zimmerman, Jacob; Zimmerman, Roy; Zobler, Marian

**Cc:** Scott, Tracy; Tallarico, Alison; Thoman, Raymond; Jones, Jackie; Blair, Tina; Chin, Allison; Dean, Vivian; Evans(HR), Marilyn; Himmelberg, Jude; Jackson, Briana; Jaigobind, Savi; Silberfeld, Dafna; Watson, Madonna; Williams, Michelle; Atkinson, Jeanne; Broadwater, Lynne; Brown, Keisa; Hicks, Beverly; Hicks, Valencia; Jonsson, Dawn; Lindsay, Sandy; Marziale, Riqueza; ORourke, Christine; Reeves, Gloria; Scott, Mary; Thomas-Richards, Karen; Todd, Colleen

**Date:** Thursday, March 17, 2011 2:07:15 PM

**Attachments:** Work Schedule and Premium Pay Guidance for Japan Response 3.docx

---

Managers, supervisors, team leaders, and T&L Coordinators,

Attached for your information is a document that addresses, in detail, work schedules and premium pay for individuals who serve in and support the NRC Operations Center or work in Japan, in response to the current, serious nuclear power plant issues in that country. NSIR and the NRC Japanese support team leader will provide the document to all participants.

T&L Coordinators, please note that participants in your organization may contact you to request a change in their HRMS workgroups for pay periods in which they perform emergency response work.

Participants should contact me if they have any questions on work schedules or premium pay.

Larry Davidson  
Office of Human Resources  
Nuclear Regulatory Commission  
301-492-2286; [lawrence.davidson@nrc.gov](mailto:lawrence.davidson@nrc.gov)



## **WORK SCHEDULE AND PREMIUM PAY GUIDANCE FOR RESPONSE TO EVENTS IN JAPAN**

Please first review this document and contact Larry Davidson of the Office of Human Resources (301-492-2286 or [lawrence.davidson@nrc.gov](mailto:lawrence.davidson@nrc.gov)) for any needed assistance.

### **Work Schedules**

One or more types of work schedules may be appropriate during a pay period in which you serve in and support the NRC Operations Center or work in Japan, in response to the current, serious nuclear power plant issues in that country. You are authorized to select the type of work schedule you will work during the pay period depending on:

- Your specific workdays and work clock hours in the Operations Center or in Japan, as well as any flexibility you have to choose those workdays and clock hours;
- Your entitlement to premium pay for work in the Operations Center or Japan;
- Your performance, if any, of regular duties outside of the Operations Center/Japan during the pay period; and,
- Your loss of earned credit hours if you switch from NEWFlex to another type of work schedule.

Possible work schedules include:

- Compressed work schedule – Appropriate if, during the entire pay period, your workdays and work clock hours are fixed (i.e., you do not have any flexibility to choose either) and there are fewer than ten nonovertime workdays in the pay period (at least one nonovertime workday contains more than eight nonovertime hours). Note that restrictions on nonovertime work clock hours and weekend workdays have been lifted for the pay period. An Expanded-Compressed Work Schedule may be appropriate (see the Yellow Announcement at <http://www.internal.nrc.gov/announcements/yellow/2003/2003-032.html> and Article 6.10.3 of the Collective Bargaining Agreement).
- NEWFlex - Appropriate if, during at least a portion of the pay period, you have some discretion to select your workdays and/or work clock hours (for example, if/when performing regular duties outside of the Operations Center or Japan). Note that restrictions on nonovertime work clock hours and weekend workdays have been lifted for the pay period.
- First-40 – Appropriate if it is impracticable to prescribe a regular schedule of definite hours of duty for each workday of the workweek (likely not appropriate).

Note that you must advise your T&L coordinator to change your HRMS workgroup if you change the type of schedule you work, e.g., if you normally work CWS and change to NEWFlex for the pay period in which you serve in and support the NRC Operations Center or work in Japan. Also note that if you switch from NEWFlex to another type of work schedule, you will lose and will be paid for any accumulated credit hours.

Also note that if you work fewer than 80 hours serving in and supporting the NRC Operations Center or working in Japan, your “home” supervisor will allow you discretion, to the extent possible, to decide how/when to cover any missing time.

### **Premium Pay**

Cap on Combined Salary Plus Premium Pay – The biweekly cap on premium pay has been lifted and will be applied on an annual basis during any pay period in which you serve in and support the NRC Operations Center or work in Japan (the annual cap will benefit you if you are paid a salary below the GG-15 step 10 salary rate). Your organization has been advised to contact CFO with employee names and dates of work.

Overtime pay or regular comp time – Overtime (limited to the higher of: your regular rate; or, 150% of GG-10 step 10) is paid for your work in excess of your full-time work schedule during the pay period. You may choose to be compensated via regular compensatory time off instead (limited to a 40-hour pay period carryover) if your overtime work was not scheduled in advance of the workweek, or regardless of when it was scheduled if you are on NEWFlex.

TRCs – Use “OT” for overtime pay and “COMPE” for regular comp time.

Night premium (10%) – This premium is paid for your *nonovertime* work between 6:00 p.m. and 6:00 a.m. the following morning, and for your *overtime* work during these clock hours if the work was scheduled in advance of the week in which you performed it. Also, this premium is paid for your periods of paid leave, if any, during night clock hours if, during the pay period, you have fewer than 8 hours of total paid leave inclusive of both night and day work.

TRC – NDIFF (hours must also be recorded under another TRC such as REG or OT).

Sunday premium (25%) – This premium is paid for your *nonovertime* work performed on a shift(s), any part(s) of which falls on a Sunday (e.g., a shift from Saturday at 6:00 p.m. to Sunday at 6:00 a.m.). Sunday premium is not payable for periods of nonwork, including leave, holidays not worked, and excused absence.

TRC – SUNP (hours must also be recorded under another TRC such as REG).

Standby status - You are eligible for special overtime pay if you are restricted by official order to a designated post of duty and assigned to be in a state of readiness to perform work, versus actually performing work, with limitations on your activities so substantial that you cannot use

your time effectively for your own purposes. We do not anticipate that any employee will be in a standby status.

### **Miscellaneous**

#### **Employee Assistance Program (EAP)**

Free, confidential counseling is available to you and your family members to address emotional issues, work problems, substance abuse, stress, crisis, marital/family concerns, financial matters, legal issues, eldercare resources, and childcare referrals. Call 1-800-869-0276 or check [www.eapconsultants.com](http://www.eapconsultants.com).

#### **Travel**

If you travel to/from Japan:

- Keep a log of specific travel times and work clock hours to help NRC compute your entitlement to compensation.
- Consider enrolling in the Smart Traveler Enrollment Program or STEP) to make it easier for the Embassy/Consulates to contact you in case of an emergency. You may enroll at <https://travelregistration.state.gov>, or if you have no internet access, directly at the U.S. Embassy or U.S. Consulates.
- If you are paid a salary below the GG-15 step 10 salary rate, you are entitled to overtime pay (limited to higher of: your regular rate; or, 150% of GG-10 step 10) for travel to/from Japan, and if the travel is during night hours (6:00 p.m. to 6:00 a.m.) and scheduled in advance of the workweek, you are also entitled to night premium pay. You may substitute regular compensatory time off (limited to a 40-hour pay period carryover) for overtime pay if your travel was not scheduled in advance of the workweek, or regardless of when it was scheduled if you are on NEWFlex.

TRCs – Use “OT” for overtime pay, “COMPE” for regular comp time, and “NDIFF” for night premium pay.



Ex 2

**From:** Givvines, Mary *NR*  
**To:** Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Galloway, Melanie; Glitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David; Westreich, Barry  
**Cc:** NRR BRANCH CHIEFS; Leeds, Eric; Grobe, Jack; Boger, Bruce; Gorham, Tajuan; Compton, Makeeka  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN  
**Date:** Thursday, March 17, 2011 9:33:04 AM  
**Attachments:** Memo re- Waiver of Work Schedule and Pay Cap Rules for Work in Response to the Events in Japan..pdf

---

LT,

If the attached memo still doesn't address all your staff's work schedule flexibilities while supporting the Japan situation – please let me know.

Mary

*release*

**From:** Khan, Charline *HR*  
**Sent:** Thursday, March 17, 2011 7:29 AM  
**To:** RidsAcraAcnw\_MailCTR Resource; RidsAslbpManagement Resource; RidsOgcMailCenter Resource; RidsOcaaMailCenter Resource; RidsOcoMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; RidsOcaMailCenter Resource; RidsOpaMail Resource; RidsSecyMailCenter Resource; RidsSecyCorrespondenceMCTR Resource; RidsEdoMailCenter Resource; RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsOeMailCenter Resource; RidsFsmeOd Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsHrMailCenter Resource; RidsNroOd Resource; RidsNroMailCenter Resource; RidsNmssOd Resource; RidsNrrOd Resource; RidsNrrMailCenter Resource; RidsResOd Resource; RidsResPmdaMail Resource; RidsSbcrMailCenter Resource; RidsNsirOd Resource; RidsNsirMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource  
**Cc:** Davidson, Lawrence; Buchholz, Jeri; Johns, Nancy  
**Subject:** WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by J. Buchholz for/  
Office of Human Resources

DATED: March 16, 2011

**SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN**

ADAMS Accession No. ML11075A003 refers

**NOTE: Electronic distribution only**

*Charline Khan*  
**Administrative Assistant (Rotation)**  
**U.S. NUCLEAR REGULATORY COMMISSION**  
**Office of Human Resources**  
**P:301-492-2318**

*U/76*

***Charline.Khan@nrc.gov***



March 16, 2011

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by J. Buchholz for/  
Office of Human Resources

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR  
WORK IN RESPONSE TO THE EVENTS IN JAPAN

I have approved a waiver of the U.S. Nuclear Regulatory Commission (NRC) work schedule rules, as well as a waiver of the biweekly cap on combined salary plus premium pay, for NRC employees serving in and supporting the NRC Operations Center, as well as NRC employees working in Japan, in response to the current, serious nuclear power plant issues in that country.

#### Work Schedule Limitations

NRC permits a variety of types of work schedules, including 5-4/9 compressed work schedules (CWS) and NEWFlex flexible work schedules that include limitations on permissible workdays and working clock hours. Other types of work schedules, including Expanded-Compressed work schedules (E-CWS) in emergency situations, and First-40 work schedules in unusual situations, do not contain such limitations. A summary of work schedule options may be found on the intranet at <http://www.internal.nrc.gov/HR/work-schedule.html>.

I have approved a waiver of limitations on permissible workdays and working clock hours for NRC employees working in response to these events. As a result, employees on 5-4/9 CWS may work weekends, employees on NEWFlex may work Sundays, and employees on both types of work schedules may work any clock hours, as appropriate (an exception to the 11.25 hour maximum limitation on NEWFlex workdays is not possible).

#### Biweekly Cap

As a matter of Federal-wide law and regulations, employees who are exempt from the Fair Labor Standards Act (most NRC employees are exempt) normally are subject to a biweekly cap on combined salary plus premium pay. This year, the cap is equal to the salary for GG-15 step 10. Premium pay includes the following categories: night premium pay, Sunday premium pay, holiday premium pay, overtime premium pay, and "regular" compensatory time off (not religious compensatory time off or Special Compensatory Time Off for Travel).

For further details, please see the February 3, 2011, NRC Announcement entitled "Employee Resources: 2011 Cap on Combined Salary Plus Premium Pay," available on the intranet at <http://www.internal.nrc.gov/announcements/items/7625.html>.

Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

MEMORANDUM TO THOSE ON THE ATTACHED LIST DATED: March 16, 2011

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK  
IN RESPONSE TO THE EVENTS IN JAPAN

Edwin M. Hackett, Executive Director, Advisory Committee on Reactor Safeguards	RidsAcrsAcnw_MailCTR Resource
E. Roy Hawkens, Chief Administrative Judge, Atomic Safety and Licensing Board Panel	RidsAslbpmManagement Resource
Stephen G. Burns, General Counsel	RidsOgcMailCenter Resource
Brooke D. Poole, Director, Office of Commission Appellate Adjudication	RidsOcaaMailCenter Resource
James E. Dyer, Chief Financial Officer	RidsOcofMailCenter Resource
Hubert T. Bell, Inspector General	RidsOigMailCenter Resource
Margaret M. Doane, Director, Office of International Programs	RidsOipMailCenter Resource
Rebecca L. Schmidt, Director, Office of Congressional Affairs	RidsOcaMailCenter Resource
Eliot B. Brenner, Director, Office of Public Affairs	RidsOpaMail Resource
Annette Vietti-Cook, Secretary of the Commission	RidsSecyMailCenter Resource
	RidsSecyCorrespondenceMCTR Resource
R. William Borchardt, Executive Director for Operations	RidsEdoMailCenter Resource
Michael F. Weber, Deputy Executive Director for Materials, Waste, Research, State, Tribal, and Compliance Programs, OEDO	RidsEdoMailCenter Resource
Darren B. Ash, Deputy Executive Director for Corporate Management, OEDO	RidsEdoMailCenter Resource
Martin J. Virgilio, Deputy Executive Director for Reactor and Preparedness Programs, OEDO	RidsEdoMailCenter Resource
Mary C. Muessle, Acting Assistant for Operations, OEDO	RidsEdoMailCenter Resource
Kathryn O. Greene, Director, Office of Administration	RidsAdmMailCenter Resource
Patrick D. Howard, Director, Computer Security Office	RidsCsoMailCenter Resource
Roy P. Zimmerman, Director, Office of Enforcement	RidsOeMailCenter Resource
Charles L. Miller, Director, Office of Federal and State Materials and Environmental Management Programs	RidsFsmeOd Resource
Cheryl L. McCrary, Director, Office of Investigations	RidsOiMailCenter Resource
Thomas M. Boyce, Director, Office of Information Services	RidsOis Resource
Miriam L. Cohen, Director, Office of Human Resources	RidsHRMailCenter Resource
Michael R. Johnson, Director, Office of New Reactors	RidsNroOd Resource
	RidsNroMailCenter Resource
Catherine Haney, Director, Office of Nuclear Material Safety and Safeguards	RidsNmssOd Resource
Eric J. Leeds, Director, Office of Nuclear Reactor Regulation	RidsNrrOd Resource
	RidsNrrMailCenter Resource
Brian W. Sheron, Director, Office of Nuclear Regulatory Research	RidsResOd Resource
	RidsResPmdaMail Resource
Corenthis B. Kelley, Director, Office of Small Business and Civil Rights	RidsSbcrMailCenter Resource
James T. Wiggins, Director, Office of Nuclear Security and Incident Response	RidsNsirOd Resource
William M. Dean, Regional Administrator, Region I	RidsNsirMailCenter Resource
Victor M. McCree, Regional Administrator, Region II	RidsRgn1MailCenter Resource
Mark A. Satorius, Regional Administrator, Region III	RidsRgn2MailCenter Resource
Elmo E. Collins, Jr., Regional Administrator, Region IV	RidsRgn3MailCenter Resource
	RidsRgn4MailCenter Resource



Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

**DISTRIBUTION:**

HR r/f

DIRECTORY/SUBDIRECTORY: G:\HRPP\PAY

DOCUMENT NAME: Waiver of Biweekly Cap for Japan Response.docx

WITS/EDO/HR TICKET NO. :

SUBJECT FILE FOLDER NAME:

ADAMS ACCESSION NUMBER: ML11075A003

☐ Publicly Available ☒ Non-Publicly Available ☐ Sensitive ☒ Non-Sensitive

OFFICE	HR/HRPP	HR/HRPP	HR/HROP	HR/ODD	HR/OD
NAME	LDavidson	NJohns LDavidson for	JBuchholz	GTracy JBuchholz for	MCohen JBuchholz for
DATE	3/16/2011	3/16/2011	3/16/2011	3/16/2011	3/16/2011

OFFICIAL RECORD COPY

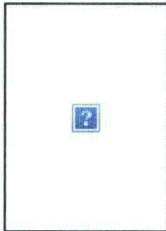
From: [EDO Update](#)  
To: [Taylor, Renee](#)  
Subject: EDO Update  
Date: Thursday, March 17, 2011 4:08:43 PM

EDO Banner

EDO Banner

## EDO Update

Thursday, March 17, 2011



The situation at the Fukushima reactor site in Japan continues to be very serious and dynamic. The NRC has responded quickly and effectively to an incredibly challenging situation. We have staffed the Operations Center 24/7 since last Friday and we have a team of 11 individuals who are in Japan to 1) provide support to the U.S. ambassador and the embassy, 2) interface with the Japanese regulator and licensee, and 3) help to facilitate coordination of the U.S. Government response. The Chairman was on Capitol Hill yesterday to brief committees of both the House and Senate on what is happening and how the NRC is responding. The quality of the work done by the NRC staff is clearly recognized and appreciated by all of our stakeholders.

Given the available information, we continue to be very concerned about the condition of three reactor cores and two spent fuel pools. Based on calculations performed by NRC experts for the situation as a whole, we now believe that it is appropriate for U.S. residents within 50 miles of the Fukushima reactors to evacuate. Our recommendation is based on NRC guidelines for public safety that would be used in the U.S. under similar circumstances. At the same time, however, we do not expect any part of the U.S. or its territories to experience any harmful levels of radioactivity, given the great distances involved. We continue to do analyses to verify our understanding of this issue. The NRC is working closely with our federal partners to monitor radiation releases from the Japanese nuclear power plants.

We will continue to place emphasis on communication activities. The agency is being flooded with phone calls from the media, stakeholders, and the general public. Once again, thank you to everyone who is pitching in to help deal with this volume of activity.

Given the dynamic situation, there will be an All-Hands meeting tomorrow at 2:00 p.m. in the One White Flint auditorium, with VTC to the regions, Technical Training Center, and headquarters satellite offices. Overflow seating will be available in

4/77

the TWFN Exhibit Area as well as the Commission Hearing Room. (There will also be a bridge line: 888-820-8960; pass code: 8690842.) I will give you an update on what we know, and answer any questions to the best of my ability. In addition, we are expecting to have a Commission meeting early next week. We will provide a link to the briefing materials as soon as possible. Finally, you may find these documents prepared by the Office of Nuclear Reactor Regulation to be of interest:  
<http://portal.nrc.gov/edo/nrr/default.aspx>.

---



Bill Borchardt, EDO



**From:** Case, Michael *mes*  
**To:** Ruland, William  
**Subject:** Midnight update  
**Date:** Thursday, March 17, 2011 8:51:21 AM

---

At our 7:00 call, Bechtel had found all the pumps and parts for 4 systems in Australia. We're trying to move them to Yokota.  
Sent from Blackberry  
Michael Case.

V178

**From:** [Howe, Allen](#) *NRK*  
**To:** [Leeds, Eric](#); [Grobe, Jack](#); [Boger, Bruce](#)  
**Cc:** [Meighan, Sean](#); [Ruland, William](#); [Boska, John](#); [Nelson, Robert](#); [Gitter, Joseph](#)  
**Subject:** FW: Japan Event Commission Meeting  
**Date:** Thursday, March 17, 2011 9:53:18 AM  
**Attachments:** [110321 NRC Response to Events in Japan Scheduling Note.docx](#)  
[110321 Closed Events in Japan and Commission Agenda Scheduling Note.docx](#)

---

**From:** Merzke, Daniel *SCU*  
**Sent:** Thursday, March 17, 2011 7:50 AM  
**To:** Howe, Allen  
**Subject:** FW: Japan Event Commission Meeting

Allen, here are the scheduling notes that SECY sent to the Chairman's office.

**From:** Baval, Rochelle *SCU*  
**Sent:** Thursday, March 17, 2011 7:43 AM  
**To:** Andersen, James; Merzke, Daniel  
**Cc:** Laufer, Richard  
**Subject:** RE: Japan Event Commission Meeting

Good Morning,

Attached are the two scheduling notes for meetings regarding the events in Japan that were sent to the Chairman's office yesterday. Both say the meetings are on Monday, but there has not been a decision when the meetings will be held. They could be Monday, Tuesday or Wednesday. I'm hoping that we can at least get this decision today.

The closed meeting is about NRC's strategy to address significant issues and the Commission's agenda (what meetings should the Commission have based on the events in Japan-ones already scheduled and new meetings; what meetings should be postponed and be replaced by different meetings; what papers should the Commission focus on; what papers could be delayed), all based on the events in Japan and how we may need to refocus, at least for the next six months.

Let me know if there are questions.

I'll let you know as we get decisions on these meetings.

*Rochelle*

**From:** Andersen, James *10900*  
**Sent:** Wednesday, March 16, 2011 12:07 PM  
**To:** Baval, Rochelle  
**Cc:** Merzke, Daniel  
**Subject:** Japan Event Commission Meeting

Rochelle,

We are starting to get questions from the staff on this meeting. Can you please use Dan

and myself as the OEDO contacts when you find out any information. I would like to try to keep this somewhat in process. Thanks.

Jim A.

## SCHEDULING NOTE

**Title:** **BRIEFING ON NRC RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN (Public Meeting)**

**Purpose:** To provide the Commission a status on the recent events in Japan, NRC's response, and planned actions.

**Scheduled:** **March 21, 2011**  
**9:00 am**

**Duration:** Approx. 2 hours

**Location:** Commissioners' Conference Room OWFN

<b>Participants:</b>	<b>Presentation</b>
<b><u>NRC Staff Panel</u></b>	<b>50 mins.*</b>
<b>Bill Borchardt</b> , Executive Director for Operations <u>Topic:</u> Overview of Japanese event and U.S. response	15 mins.*
<b>Mike Weber</b> , Deputy Executive Director Materials, Waste, Research, State, Tribal and Compliance Programs <u>Topic:</u> Potential Consequences; what will be seen in the U.S.	10 mins.*
<b>Marty Virgilio</b> , Deputy Executive Director for Reactor and Preparedness Programs <u>Topic:</u> Situation assessment for U.S. reactors and applicants	10 mins.*
<b>Elliot Brenner</b> , Director, Office of Public Affairs <u>Topic:</u> Communication challenges	5 mins.*
<b>Eric Leeds</b> , Director, Office of Nuclear Reactor Regulation <u>Topic:</u> Path forward; near term and longer term	10 mins.*
<b>Commission Q &amp; A</b>	<b>50 mins.</b>
<b>Discussion – Wrap-up</b>	<b>5 mins.</b>

Documents:

Background materials due to SECY: prior to the briefing.

Slides due to SECY: prior to the briefing.

Draft: 3/16/11

### **SCHEDULING NOTE**

**Title:** **DISCUSSION OF MANAGEMENT ISSUES (Closed – Ex. 9)**

**Purpose:** To provide the Commission an opportunity to discuss strategy for addressing issues of most interest for inquiry based on the recent events in Japan and discuss the focus of the Commission's agenda.

**Scheduled:** **March 21, 2011**  
**11:00 am**

**Duration:** Approx. 1.5 hours

**Location:** Commissioners' Conference Room, 1<sup>st</sup> fl OWFN

**NRC Staff**

**Presentation**  
**20 mins.\***

**Topics:**

- Strategy for Addressing Issues of Most Interest for Inquiry Based on the Recent Events in Japan
- Focus of the Commission's Agenda over the Next Six Months

**Commission Q & A and Discussion** **50 mins.**

**Discussion – Wrap-up** **5 mins.**

\*For presentation only and does not include time for Commission Q & A's

**Documents:**

Background materials due to SECY: prior to the briefing.

Slides due to SECY: prior to the briefing.

**From:** Case, Michael *11/25*  
**To:** Ruland, William  
**Subject:** FW: Assessment of cooling requirements for Fukushima units 1-3  
**Date:** Thursday, March 17, 2011 9:32:17 AM

---

FYI

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

From: Gavrilas, Mirela  
Sent: Thursday, March 17, 2011 9:24 AM  
To: Case, Michael; Gibson, Kathy  
Subject: FW: Assessment of cooling requirements for Fukushima units 1-3

fyi

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

From: Michael Corradini [<mailto:corradini@engr.wisc.edu>]  
Sent: Thursday, March 17, 2011 9:23 AM  
To: Farmer, Mitchell T.  
Cc: Tinkler, Charles; Basu, Sudhamay; Lee, Richard; Gavrilas, Mirela  
Subject: RE: Assessment of cooling requirements for Fukushima units 1-3

Mitch - I agree with your analysis. I am doing RASCAL calcs about dose effects.

--

Michael Corradini, Chair  
Engineering Physics  
University of Wisconsin  
(608)263-1648 [Fax: 3-7451]  
[corradini@engr.wisc.edu](mailto:corradini@engr.wisc.edu)  
<http://www.engr.wisc.edu/ep>

Quoting "Farmer, Mitchell T." <[farmer@anl.gov](mailto:farmer@anl.gov)>:

> Hi everyone,  
>  
> I want to make two final suggestions that I thought of this morning  
> and I'm sending it to you in hopes that it can be factored into the  
> accident management at the site ASAP. My hand calculations below  
> indicated that at the fire pumping rate of 30 T/hour through the  
> cores (?) outlet core temp on unit 1 should go subcooled today.  
> However, it's going to be another week at least for units 2-3. I've  
> also heard about salt crystallization concerns, and that may be  
> detrimental to flow passages through the core/core debris. So, if  
> they are getting more equipment on site, it would be very beneficial  
> to double the pumping capacity for units 2/3 to try to get those  
> subcooled ASAP. This would: 1) decrease crystallization rate of salt  
> and 2) really reduce source term from the cores. Then, the only  
> steaming you should be able to see from the plants would be the  
> spent fuel pools which they are attacking now. This would help  
> clarify some of the aerial data from units 2-3 if the only steam  
> source were the pools.  
>  
> Second, I don't know if the drywell plugs are still in place, but if  
> you flood the drywell to the extent that it fills out the top, then  
> some of the water spilling onto the deck would make it into the SFP??

4/80

>  
> This is my last direct contact, we now have to go through DOE, but I  
> want to get info out as fast as possible so that it can help if  
> viable.  
>  
> Praying for the Japanese,  
> Mitch  
>  


---

> From: Farmer, Mitchell T.  
> Sent: Monday, March 14, 2011 1:31 PM  
> To: 'Tinkler, Charles'; Basu, Sudhamay; Lee, Richard; Gavrilas, Mirela  
> Subject: FW: Assesment of cooling requirements for  
> Fukushima units 1-3  
>  
>  
> FYI.  
> Mitch  
>  


---

> From: Farmer, Mitchell T.  
> Sent: Monday, March 14, 2011 1:22 PM  
> To: Grandy, Christopher; Khalil, Hussein S.; Peters, Mark T.;  
> Sattelberger, Alfred P.  
> Cc: 'corradin@cae.wisc.edu'; Seidensticker, Ralph W.  
> Subject: Assesment of cooling requirements for Fukushima units 1-3  
>  
> All,  
>  
> I did a few back of the envelope calculations to scope out what the  
> cooling requirements will be at Fukushima units 1-3 in the event  
> that they are not able to reestablish power to the site and,  
> thereby, normal cooling functions at these plants.  
>  
> The limited information I have suggests that they are supplying 30  
> MT/hour of seawater to unit 1, and so I'll assume that the same is  
> currently going to units 2 and 3. To put this in perspective, that  
> amount of cooling flow can remove 2.8 MW while remaining subcooled  
> at atmospheric conditions, and up to 21.7 MW if this amount of water  
> is completely boiled off. Ideally, you would like to get to  
> subcooled outlet core conditions so you'll stop forming steam and  
> then you can stop the venting that is causing concern right now.  
>  
> That amount of heat removal needs to be compared to the decay heat  
> levels in these reactors to determine when subcooled conditions can  
> be reached. Unit 1 was 460 Mwe and Units 2- 3 were 784 Mwe per  
> Chris's previous email. Thus, I estimate the thermal power levels  
> of these reactors to be 1200 MWt and 2000 MWt, respectively. After  
> three days (or currently), the power level for a U core would fall  
> to about 0.4 % assuming that the reactors had operated for 200  
> full-power days before the earthquake (a little higher for the MOX  
> core but I don't have data to assess that). Thus, decay heat in  
> Unit 1 is now about 4.8 MW and for Units 2/3 it's about 8 MWt. Thus,  
> I suspect they're still venting steam at all three units. I then  
> looked at the times when the decay heat will fall below the level at  
> which subcooling can be achieved (ie 2.8 MWt core decay heat level)  
> and for unit 1 that is 6 days total (ie 3 days from now) and for  
> units 2 and 3 it will be about 16 days (ie 13 more days).  
>  
> This is a worst case scenario that assumes they can't get electricit  
> back to the site and establish normal cooling function; ie they have  
> to rely on sea water injection. Also, I assumed 200 full power

> days; the power level could be less or a little more if I  
> overestimated/underestimated operation times.  
>  
> As far as coolability of the degraded cores, my opinion is that  
> units 1 and 3 are in coolable configurations; it's been 3 days now  
> and if the configuraiton was not coolable the material most likely  
> would have failed the reactor pressure vessel. I guess the jury is  
> still out on Unit 2; I think the entire core has gone dry at least  
> once. The good news is that the decay heat is way down from what it  
> was a few hours after the accident was initiated.  
>  
> Mitch  
>  
>



**From:** [RidsNrrOd Resource](#)  
**To:** [Ruland, William](#); [Bahadur, Sher](#); [Thomas, Brian](#); [Lubinski, John](#); [McGinty, Tim](#); [Blount, Tom](#); [Quay, Theodore](#); [Brown, Frederick](#); [Giitter, Joseph](#); [Nelson, Robert](#); [Howe, Allen](#); [Holian, Brian](#); [Galloway, Melanie](#); [Cheok, Michael](#); [Lee, Samson](#); [Hiland, Patrick](#); [Skeen, David](#); [Givvines, Mary](#); [Ferrell, Kimberly](#)  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN  
**Date:** Thursday, March 17, 2011 8:23:37 AM  
**Attachments:** [SecureZIP Attachments.zip](#)  
**Importance:** High

---

**From:** Khan, Charline *HK*  
**Sent:** Thursday, March 17, 2011 7:29 AM  
**To:** RidsAcraAcnw\_MailCTR Resource; RidsAslbpManagement Resource; RidsOgcMailCenter Resource; RidsOcaaMailCenter Resource; RidsOcfoMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; RidsOcaMailCenter Resource; RidsOpaMail Resource; RidsSecyMailCenter Resource; RidsSecyCorrespondenceMCTR Resource; RidsEdoMailCenter Resource; RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsOeMailCenter Resource; RidsFsmeOd Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsHrMailCenter Resource; RidsNroOd Resource; RidsNroMailCenter Resource; RidsNmssOd Resource; RidsNrrOd Resource; RidsNrrMailCenter Resource; RidsResOd Resource; RidsResPmdaMail Resource; RidsSbcrMailCenter Resource; RidsNsirOd Resource; RidsNsirMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource  
**Cc:** Davidson, Lawrence; Buchholz, Jeri; Johns, Nancy  
**Subject:** WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by J. Buchholz for/  
Office of Human Resources

DATED: March 16, 2011

**SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN  
RESPONSE TO THE EVENTS IN JAPAN**

ADAMS Accession No. ML11075A003 refers

**NOTE: Electronic distribution only**

*Charline Khan*

**Administrative Assistant (Rotation)**

**U.S. NUCLEAR REGULATORY COMMISSION**

**Office of Human Resources**

**P:301-492-2318**

***Charline.Khan@nrc.gov***

4/81

March 16, 2011

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/**RA by J. Buchholz for/**  
Office of Human Resources

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR  
WORK IN RESPONSE TO THE EVENTS IN JAPAN

I have approved a waiver of the U.S. Nuclear Regulatory Commission (NRC) work schedule rules, as well as a waiver of the biweekly cap on combined salary plus premium pay, for NRC employees serving in and supporting the NRC Operations Center, as well as NRC employees working in Japan, in response to the current, serious nuclear power plant issues in that country.

#### Work Schedule Limitations

NRC permits a variety of types of work schedules, including 5-4/9 compressed work schedules (CWS) and NEWFlex flexible work schedules that include limitations on permissible workdays and working clock hours. Other types of work schedules, including Expanded-Compressed work schedules (E-CWS) in emergency situations, and First-40 work schedules in unusual situations, do not contain such limitations. A summary of work schedule options may be found on the intranet at <http://www.internal.nrc.gov/HR/work-schedule.html>.

I have approved a waiver of limitations on permissible workdays and working clock hours for NRC employees working in response to these events. As a result, employees on 5-4/9 CWS may work weekends, employees on NEWFlex may work Sundays, and employees on both types of work schedules may work any clock hours, as appropriate (an exception to the 11.25 hour maximum limitation on NEWFlex workdays is not possible).

#### Biweekly Cap

As a matter of Federal-wide law and regulations, employees who are exempt from the Fair Labor Standards Act (most NRC employees are exempt) normally are subject to a biweekly cap on combined salary plus premium pay. This year, the cap is equal to the salary for GG-15 step 10. Premium pay includes the following categories: night premium pay, Sunday premium pay, holiday premium pay, overtime premium pay, and "regular" compensatory time off (not religious compensatory time off or Special Compensatory Time Off for Travel).

For further details, please see the February 3, 2011, NRC Announcement entitled "Employee Resources: 2011 Cap on Combined Salary Plus Premium Pay," available on the intranet at <http://www.internal.nrc.gov/announcements/items/7625.html>.

### Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

### Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).



MEMORANDUM TO THOSE ON THE ATTACHED LIST DATED: March 16, 2011

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK  
IN RESPONSE TO THE EVENTS IN JAPAN

Edwin M. Hackett, Executive Director, Advisory Committee on Reactor Safeguards	RidsAcrsAcnw_MailCTR Resource
E. Roy Hawken, Chief Administrative Judge, Atomic Safety and Licensing Board Panel	RidsAslbpmManagement Resource
Stephen G. Burns, General Counsel	RidsOgcMailCenter Resource
Brooke D. Poole, Director, Office of Commission Appellate Adjudication	RidsOcaaMailCenter Resource
James E. Dyer, Chief Financial Officer	RidsOcfoMailCenter Resource
Hubert T. Bell, Inspector General	RidsOigMailCenter Resource
Margaret M. Doane, Director, Office of International Programs	RidsOipMailCenter Resource
Rebecca L. Schmidt, Director, Office of Congressional Affairs	RidsOcaMailCenter Resource
Eliot B. Brenner, Director, Office of Public Affairs	RidsOpaMail Resource
Annette Vietti-Cook, Secretary of the Commission	RidsSecyMailCenter Resource
	RidsSecyCorrespondenceMCTR Resource
R. William Borchardt, Executive Director for Operations	RidsEdoMailCenter Resource
Michael F. Weber, Deputy Executive Director for Materials, Waste, Research, State, Tribal, and Compliance Programs, OEDO	RidsEdoMailCenter Resource
Darren B. Ash, Deputy Executive Director for Corporate Management, OEDO	RidsEdoMailCenter Resource
Martin J. Virgilio, Deputy Executive Director for Reactor and Preparedness Programs, OEDO	RidsEdoMailCenter Resource
Mary C. Muessle, Acting Assistant for Operations, OEDO	RidsEdoMailCenter Resource
Kathryn O. Greene, Director, Office of Administration	RidsAdmMailCenter Resource
Patrick D. Howard, Director, Computer Security Office	RidsCsoMailCenter Resource
Roy P. Zimmerman, Director, Office of Enforcement	RidsOeMailCenter Resource
Charles L. Miller, Director, Office of Federal and State Materials and Environmental Management Programs	RidsFsmeOd Resource
Cheryl L. McCrary, Director, Office of Investigations	RidsOiMailCenter Resource
Thomas M. Boyce, Director, Office of Information Services	RidsOis Resource
Miriam L. Cohen, Director, Office of Human Resources	RidsHRMailCenter Resource
Michael R. Johnson, Director, Office of New Reactors	RidsNroOd Resource
	RidsNroMailCenter Resource
Catherine Haney, Director, Office of Nuclear Material Safety and Safeguards	RidsNmssOd Resource
Eric J. Leeds, Director, Office of Nuclear Reactor Regulation	RidsNrrOd Resource
	RidsNrrMailCenter Resource
Brian W. Sheron, Director, Office of Nuclear Regulatory Research	RidsResOd Resource
	RidsResPmdaMail Resource
Corenthis B. Kelley, Director, Office of Small Business and Civil Rights	RidsSbcrMailCenter Resource
James T. Wiggins, Director, Office of Nuclear Security and Incident Response	RidsNsirOd Resource
William M. Dean, Regional Administrator, Region I	RidsNsirMailCenter Resource
Victor M. McCree, Regional Administrator, Region II	RidsRgn1MailCenter Resource
Mark A. Satorius, Regional Administrator, Region III	RidsRgn2MailCenter Resource
Elmo E. Collins, Jr., Regional Administrator, Region IV	RidsRgn3MailCenter Resource
	RidsRgn4MailCenter Resource

Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

DISTRIBUTION:

HR r/f

DIRECTORY/SUBDIRECTORY: G:\HRPP\PAY

DOCUMENT NAME: Waiver of Biweekly Cap for Japan Response.docx

WITS/EDO/HR TICKET NO. :

SUBJECT FILE FOLDER NAME:

ADAMS ACCESSION NUMBER: ML11075A003

☐ Publicly Available ☒ Non-Publicly Available ☐ Sensitive ☒ Non-Sensitive

OFFICE	HR/HRPP	HR/HRPP	HR/HROP	HR/ODD	HR/OD
NAME	LDavidson	NJohns LDavidson for	JBuchholz	GTracy JBuchholz for	MCohen JBuchholz for
DATE	3/16/2011	3/16/2011	3/16/2011	3/16/2011	3/16/2011

OFFICIAL RECORD COPY



## Kauffman, John

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 17, 2011 7:02 AM  
**To:** Kauffman, John  
**Subject:** FW: RES support for commission meeting on Monday 3/21.  
**Attachments:** Assistance with Commission Brief

**Importance:** High

It is likely that we will need to help Pat with some points on GI-199. Doug thinks it will be a public meeting so we should keep that in mind. Please start on a key message related to the Japanese earthquake and draft any Q&A that come to mind. I will forward some Q&A from Annie.

Ben

---

**From:** Coyne, Kevin  
**Sent:** Wednesday, March 16, 2011 6:56 PM  
**To:** Salley, MarkHenry; Kuritzky, Alan; Marksberry, Don; Ott, William; Beasley, Benjamin  
**Cc:** Demoss, Gary; Stutzke, Martin; Ibarra, Jose; Hudson, Daniel; Peters, Sean; Xing, Jing; Coe, Doug; Correia, Richard  
**Subject:** FW: RES support for commission meeting on Monday 3/21.  
**Importance:** High

Just wanted to give you a head's up...

Still a bit fuzzy exactly what we need to provide, but we will need to help NRR with this emergent Commission briefing. NRR has the lead, but we need to be ready to lend a hand. More specifics will come after an Office TA scheduling call tomorrow, but you may want to start thinking about these topics:

Bill Borchardt intends to cover:

Advance Our Understanding of Safety and Risk

Marty Virgilio's portion will cover:

- External Events
  - Seismic
  - Flood
  - Tsunamis
- Severe Accidents
  - SBO
  - B.5.b/50.54 (hh)(2)
  - SAMGs
  - Hydrogen control
  - Emergency planning

- Spent Fuel

Bill Borchardt's talk seems more in the DSA area (but might provide an opening for the emerging Level 3 project). Marty Virgilio appears to be touching on topics with some tie to DRA (particularly if NRR wants to address relative risk significance of these events for the US or touch on GI-199). It's a short briefing, so everything would be at a very high level. Obviously, once we have feedback from NRR we'll have a better idea where to head with this...

Kevin

---

**From:** Dion, Jeanne

**Sent:** Wednesday, March 16, 2011 6:43 PM

**To:** Coe, Doug; Gibson, Kathy; Coyne, Kevin; Case, Michael; Sheron, Brian; Uhle, Jennifer

**Cc:** Rini, Brett; Armstrong, Kenneth

**Subject:** RES support for commission meeting on Monday 3/21.

NRR has requested RES to support a commission briefing on Monday 3/21. They are looking for background information, slides, key messages, talking points and possible Q&A- see the attached message. This might be a public meeting- our input will need to be fairly high level. NRR will provide more information after the EDO alignment meeting tomorrow 3/17.

Bill Borchardt's presentation, "Overview of Japanese Event and US response"

- RES to provide slides/information on "Advancing our understanding of safety and risk" (more info to come)

Mike Weber's presentation, "Situation assessment for US reactors and applicants"

- RES to provide slides/information on "Consequence Projections in Japan and what we might expect to see in the US"

Marty Virgilio's presentation, "Situation assessment for US reactors and applicants."

- RES to assist NRR as requested.

I will be in a meeting tomorrow morning (8am to noon)- Kenneth Armstrong will attend the 8:45am meeting.

Thanks,

Jeanne Dion

Technical Assistant (Acting)

U.S. Nuclear Regulatory Commission

Office of Nuclear Regulatory Research

[jeanne.dion@nrc.gov](mailto:jeanne.dion@nrc.gov)

301-251-7482

## Kauffman, John

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 17, 2011 7:03 AM  
**To:** Kauffman, John  
**Subject:** FW: sharepoint site where latest and greatest seismic Q&As can be found moving forward

---

**From:** Kammerer, Annie  
**Sent:** Wednesday, March 16, 2011 5:29 PM  
**To:** RES Distribution  
**Subject:** sharepoint site where latest and greatest seismic Q&As can be found moving forward

Please see the file that contains the latest document at...

<http://portal.nrc.gov/edo/nrr/NRR%20TA/FAQ%20Related%20to%20Events%20Occuring%20in%20Japan/Forms/AllItems.aspx>

We will be updating this daily or almost daily in the foreseeable future. So please go to this site if you'd like to see the latest.

The site gives RES the credit since we're the lead and started it; but there is a big team supporting this that includes staff from RES, NRO, NRR and the regions.

Annie

## Kauffman, John

---

**From:** Ibarra, Jose  
**Sent:** Thursday, March 17, 2011 12:17 PM  
**To:** Kauffman, John  
**Subject:** Weekly Input

John,  
My input for the week:

Performed TA functions including participating in the weekly meetings. Collected RIC feedback on lesions learned and sent the information to PMDA. Collected and compiled DRA list of staff to man the IRC during the Japan nuclear emergency. This effort also identified the staff available to go to Japan. Started reviewing the last Info Digest in order to update the information. Reported to the branch the highlights of the weekly RES meeting.

Thanks. Jose

## Kauffman, John

---

**From:** Wegner, Mary  
**Sent:** Thursday, March 17, 2011 1:53 PM  
**To:** Kauffman, John; Beasley, Benjamin  
**Subject:** Weekly Report  
**Attachments:** image002.jpg

### Weekly Report March 14 – 18, 2011

#### Ongoing major events:

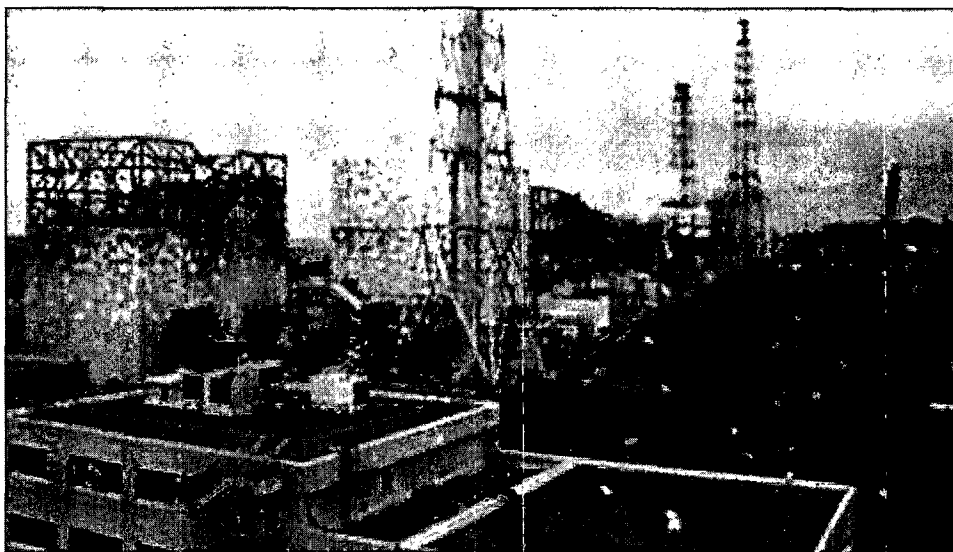
##### Crystal River 3

Tensioning is on hold. After completion of the first sequence (sequence 100 of 112) of Pass 11, the acoustic monitors at the upper level of Bay 5-6 began picking up a noise signal. The noise signals transitioned downward to the lower acoustic monitors. The signals from the three embedded strain gages in Bay 5-6 slowly increase then failed. Workers on the containment roof heard popping sounds. Workers outside of Bay 5-6 heard noise coming from the containment. The licensee implemented their contingency plan. Impulse response (IR) testing is ongoing and should be completed later on March 15. Laser scan measurements inside containment were completed last night. Preliminary IR results indicate a delamination in Bay 5-6 of which the extent is not yet determined. Bay 5-6 is adjacent to the spent fuel pool and contains the two transfer tubes. For the current Mode, containment integrity only relies on an intact containment liner. There is currently no impact on the spent fuel pool, however the licensee is still reviewing any potential impacts to the pool. The inspectors walked down the outside of Bay 5-6 and did not see any noticeable cracking. The inspectors will follow-up on the licensee's review with respect to the spent fuel pool.

Additional Details: Unlike the Bay that delaminated in 2009, Bay 5-6 is adjacent to the auxiliary building's spent fuel pool and contains the two transfer tubes. This will increase the difficulty associated with repairs. See attached photos. For the current Mode, containment integrity relies only on an intact containment liner. The liner was inspected with no problems noted. There is currently no impact on the spent fuel pool. The inspectors walked down the outside of Bay 5-6 and did not see any noticeable cracking.

#### Current Events: Earthquake in Japan

Fukushima Daiichi units 1, 2, and 3





## **Kauffman, John**

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 17, 2011 2:34 PM  
**To:** Kauffman, John  
**Subject:** FW: Weekly Report  
**Attachments:** image002.jpg

Could there be a generic problem at all post-tensioned containments?

---

**From:** Wegner, Mary  
**Sent:** Thursday, March 17, 2011 1:53 PM  
**To:** Kauffman, John; Beasley, Benjamin  
**Subject:** Weekly Report

### **Weekly Report March 14 – 18, 2011**

#### **Ongoing major events:**

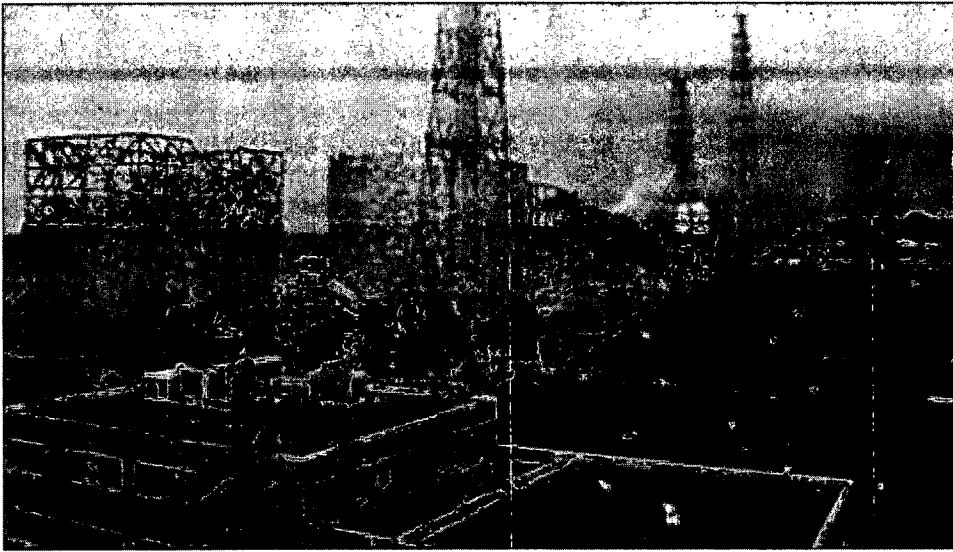
##### **Crystal River 3**

Tensioning is on hold. After completion of the first sequence (sequence 100 of 112) of Pass 11, the acoustic monitors at the upper level of Bay 5-6 began picking up a noise signal. The noise signals transitioned downward to the lower acoustic monitors. The signals from the three embedded strain gages in Bay 5-6 slowly increase then failed. Workers on the containment roof heard popping sounds. Workers outside of Bay 5-6 heard noise coming from the containment. The licensee implemented their contingency plan. Impulse response (IR) testing is ongoing and should be completed later on March 15. Laser scan measurements inside containment were completed last night. Preliminary IR results indicate a delamination in Bay 5-6 of which the extent is not yet determined. Bay 5-6 is adjacent to the spent fuel pool and contains the two transfer tubes. For the current Mode, containment integrity only relies on an intact containment liner. There is currently no impact on the spent fuel pool, however the licensee is still reviewing any potential impacts to the pool. The inspectors walked down the outside of Bay 5-6 and did not see any noticeable cracking. The inspectors will follow-up on the licensee's review with respect to the spent fuel pool.

Additional Details: Unlike the Bay that delaminated in 2009, Bay 5-6 is adjacent to the auxiliary building's spent fuel pool and contains the two transfer tubes. This will increase the difficulty associated with repairs. See attached photos. For the current Mode, containment integrity relies only on an intact containment liner. The liner was inspected with no problems noted. There is currently no impact on the spent fuel pool. The inspectors walked down the outside of Bay 5-6 and did not see any noticeable cracking.

#### **Current Events: Earthquake in Japan**

Fukushima Daiichi units 1, 2, and 3



## White, Bernard

---

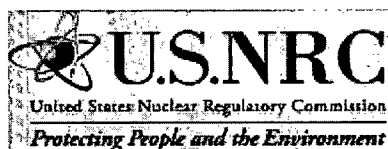
**From:** Garcia-Santos, Norma  
**Sent:** Thursday, March 17, 2011 8:20 PM  
**To:** Bajwa, Chris; Borowsky, Joseph; Solis, Jorge; Tafazzoli, Sheiba; Ireland, JoAnn; Lindsay, Haile; Parkhill, Ron; Chang, Jimmy  
**Subject:** FW: EDO Update

FYI: See information highlighted below. There will be an All Hands Meeting tomorrow at 2:00 pm to talk about the situation in Japan.

Norma

---

**From:** EDO Update [<mailto:nrc.announcement@nrc.gov>]  
**Sent:** Thursday, March 17, 2011 4:08 PM  
**To:** Taylor, Renee  
**Subject:** EDO Update



## EDO Update

---

Thursday, March 17, 2011



The situation at the Fukushima reactor site in Japan continues to be very serious and dynamic. The NRC has responded quickly and effectively to an incredibly challenging situation. We have staffed the Operations Center 24/7 since last Friday and we have a team of 11 individuals who are in Japan to 1) provide support to the U.S. ambassador and the embassy, 2) interface with the Japanese regulator and licensee, and 3) help to facilitate coordination of the U.S. Government response. The Chairman was on Capitol Hill yesterday to brief committees of both the House and Senate on what is happening and how the NRC is responding. The quality of the work done by the NRC staff is clearly recognized and appreciated by all of our stakeholders.

Given the available information, we continue to be very concerned about the condition of three reactor cores and two spent fuel pools. Based on calculations performed by NRC experts for the situation as a whole, we now believe that it is appropriate for U.S. residents within 50 miles of the Fukushima reactors to evacuate. Our recommendation is based on NRC guidelines for public safety that would be used in the U.S. under similar circumstances. At the same time, however, we do not expect any part of the U.S. or its territories to experience any harmful levels of radioactivity, given the great distances involved. We continue to do analyses to verify our understanding of this issue. The NRC is working closely with our federal partners to monitor radiation releases from the Japanese nuclear power plants.

We will continue to place emphasis on communication activities. The agency is being flooded with phone calls from the media, stakeholders, and the general public. Once again, thank you to everyone who is pitching in to help deal with this volume of activity.

Given the dynamic situation, there will be an All-Hands meeting tomorrow at 2:00 p.m. in the One White Flint auditorium, with VTC to the regions, Technical Training Center, and headquarters satellite offices. Overflow seating will be available in the TWFN Exhibit Area as well as the Commission Hearing Room. (There will also be a bridge line: 888-820-8960; pass code: 8690842.) I will give you an update on what we know, and answer any questions to the best of my ability. In addition, we are expecting to have a Commission meeting early next week. We will provide a link to the briefing materials as soon as possible. Finally, you may find these documents prepared by the Office of Nuclear Reactor Regulation to be of interest:  
<http://portal.nrc.gov/edo/nrr/default.aspx>.

---

*Bill*

Bill Borchardt, EDO

**From:** [Hiland, Patrick](#) *inrr*  
**To:** [Roquecruz, Carla](#)  
**Cc:** [Skeen, David](#)  
**Subject:** RE: Request for staff that can support OIP .... Additional Staff requirements outside Ops Center Long Term Staffing  
**Date:** Thursday, March 17, 2011 7:56:00 AM

---

Thanks Carla and don't worry this will be going on for years. *release*

---

**From:** Roquecruz, Carla *inrr*  
**Sent:** Thursday, March 17, 2011 1:33 AM  
**To:** Hiland, Patrick; Skeen, David  
**Subject:** FW: Request for staff that can support OIP .... Additional Staff requirements outside Ops Center Long Term Staffing  
**Importance:** High

Hi Pat and Dave,  
Why is all this happening when i am not there?? i would've love to help with this!!!! i wish i was there crazy with work than here :(

i hope you are all doing well.

see ya in april,  
Carla *release*

---

**From:** Astwood, Heather *inrr*  
**Sent:** Wednesday, March 16, 2011 1:38 PM  
**To:** Azeem, Almas; Cartwright, William; Cusumano, Victor; Fields, Leslie; Heida, Bruce; Meighan, Sean; Nguyen, Quynh; Roquecruz, Carla; Susco, Jeremy; Titus, Brett; Valentine, Nicholee  
**Cc:** Boger, Bruce  
**Subject:** FW: Request for staff that can support OIP .... Additional Staff requirements outside Ops Center Long Term Staffing

Dear NRR TAs

Please see the request below. EDO is asking that we support OIP. OIP is asking for names of people who would be interested in helping them with the Japan crisis. They are not sure exactly what the work would entail at this point. It could be doing shifts for OIP in the Ops Center, it could be fielding calls and questions from regulators from other countries or it could be helping with OIP's normal case load.

Eric Leeds would like to support this request. He specifically does not want us to hurt any of NRR's increasing workload but we should help if we can. The time spent assisting OIP could be broken down in a variety of ways. It is unlikely that anyone would be detailed to OIP for a long period of time (i.e. 2 months straight). More likely it would one day a week, or two weeks of one person, then two weeks of a different person. Whatever fits their needs and NRR's need to do our normal case work. The timing is negotiable.

OIP is specifically looking for people who have some international experience. Several members of the international team have already volunteered. Please let me know if there is anyone in your division that would also like to add their names to the list. Note they are asking for the names by COB today. However, I think tomorrow morning would also work.

Heather Astwood *release*

*U/88*



International Team Leader  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
301-415-1075

---

**From:** Muesle, Mary *MD*  
**Sent:** Wednesday, March 16, 2011 9:32 AM  
**To:** Evans, Michele; Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitis, Spiros; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Greene, Kathryn; Stewart, Sharon; Howard, Patrick; Miller, Charles; Moore, Scott; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Dorman, Dan; Johnson, Michael; Holahan, Gary; Leeds, Eric; Boger, Bruce; Grobe, Jack; Zimmerman, Roy; Campbell, Andy; Sheron, Brian; Uhle, Jennifer; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Casto, Chuck; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Andersen, James; Akstulewicz, Brenda; Belmore, Nancy; Quesenberry, Jeannette; Kreuter, Jane; Armstrong, Janine; Hudson, Sharon; Ellis, Mary; Hasan, Nasreen; Ronewicz, Lynn; Schumann, Stacy; Daniels, Stanley; Casby, Marcia; Thomas, Loretta; Walker, Dwight; Sprogeris, Patricia; Schwarz, Sherry; Ross, Robin; Cohen, Shari; Riddick, Nicole; Flory, Shirley; Veltri, Debra; Matakas, Gina; ODaniell, Cynthia; Miles, Patricia; Lee, Pamela; Dubose, Sheila; Buckley, Patricia; Tomczak, Tammy; Owen, Lucy; Tannenbaum, Anita; Gusack, Barbara; Harrington, Holly; Ricketts, Paul; Howell, Linda; Higginbotham, Tina; Ross, Brenda; Boyce, Thomas (OIS); Schaeffer, James; Jackson, Donald  
**Cc:** Williams, Shawn; Andersen, James; Ramsey, Jack  
**Subject:** Additional Staff requirements outside Ops Center Long Term Staffing  
**Importance:** High

OPA and OIP expect large call volumes today and in the next few weeks given expected news from Japan. OIP is looking for names of people who have desk officer or other OIP or international experience to assist them in the event that current staff cannot meet the work demands for call inquiries as well as ongoing international work. Please provide Shawn Williams and I a list of names that could serve to help OIP in this capacity and their general availability over the next week and month. It is difficult to determine the need level at this time, but as in the Op Center, it is anticipated OIP will have for an additional month. We would like the list of names by COB today.

Thanks

Mary

Mary Muesle  
Assistant for Operations - Acting  
Office of the Executive Director for Operations  
U.S. Nuclear Regulatory Commission  
301-415-1703 office  
301-415-2700 fax

---

**From:** Evans, Michele *INSIR*  
**Sent:** Tuesday, March 15, 2011 5:53 PM  
**To:** Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitis, Spiros; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Greene, Kathryn; Stewart, Sharon; Howard, Patrick; Miller, Charles; Moore, Scott; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Dorman, Dan; Johnson, Michael; Holahan, Gary; Leeds, Eric; Boger, Bruce; Grobe, Jack; Zimmerman, Roy; Campbell, Andy; Sheron, Brian; Uhle, Jennifer; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Casto, Chuck; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Muesle, Mary; Andersen, James; Akstulewicz, Brenda; Belmore, Nancy; Quesenberry, Jeannette; Kreuter, Jane; Armstrong, Janine; Hudson, Sharon;

Ellis, Marv; Hasan, Nasreen; Ronewicz, Lynn; Schumann, Stacy; Daniels, Stanley; Casby, Marcia; Thomas, Loretta; Walker, Dwight; Sprogeris, Patricia; Schwarz, Sherry; Ross, Robin; Cohen, Shari; Riddick, Nicole; Flory, Shirley; Veltri, Debra; Matakas, Gina; ODaniell, Cynthia; Miles, Patricia; Lee, Pamela; Dubose, Sheila; Buckley, Patricia; Tomczak, Tammy; Owen, Lucy; Tannenbaum, Anita; Gusack, Barbara; Harrington, Holly; Ricketts, Paul; Howell, Linda; Higginbotham, Tina; Ross, Brenda; Boyce, Thomas (OIS); Schaeffer, James; Jackson, Donald

**Subject:** Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Everyone,

Please find attached 1) a list of current positions being staffed in the Ops Center and 2) the staff identified as available to support in Japan.

Regarding additional staff available to support in the ops center, the primary needs are for the specialized positions on the PMT and anyone with previous international experience in OIP.

Regarding support in Japan, please provide any updates/changes to the list by COB March 17. The target time frame for sending these staff members is March 27-April 9, so please consider that when considering staff to put on the list.

Thanks for your support.

*Michele*



**From:** [Case, Michael](#) RES  
**To:** [Hiland, Patrick](#); [Coe, Doug](#); [Skeen, David](#)  
**Cc:** [Beasley, Benjamin](#); [Coyne, Kevin](#); [Correia, Richard](#)  
**Subject:** RE: Response requested: Assistance with Commission Brief  
**Date:** Thursday, March 17, 2011 9:06:45 AM  
**Attachments:** [Seismic QAs March 17th 2am update.msg](#)

---

Seismic folks have been working in the Ops Center to pull together just about every question imaginable on seismic and tsunamis. The 2am version is attached.

---

**From:** Hiland, Patrick MKR  
**Sent:** Thursday, March 17, 2011 7:55 AM  
**To:** Coe, Doug; Skeen, David  
**Cc:** Beasley, Benjamin; Coyne, Kevin; Correia, Richard; Case, Michael  
**Subject:** RE: Response requested: Assistance with Commission Brief  
**Importance:** High

Thanks Doug.

David, I believe Mike Case has folks to handle seismic and tsunamis. I'm adding him to cc list and perhaps he can take part. As you know our seismic folks focus on structures and SRP vs. detailed seismic- tsunami design. Mike should be able to participate or provide a senior staff person.

release

---

**From:** Coe, Doug RES  
**Sent:** Wednesday, March 16, 2011 10:47 PM  
**To:** Hiland, Patrick; Skeen, David  
**Cc:** Beasley, Benjamin; Coyne, Kevin; Correia, Richard  
**Subject:** RE: Response requested: Assistance with Commission Brief

Pat/Dave,  
I'm out of country and Kevin Coyne is acting Director RES/DRA, and I'll be back late Sunday night and in the office on Monday. Rich Correia is coming over to replace Chris Lui on Mar 28. We can provide you with GI-199 bullets or back you up as needed at the Commission meeting. Please let Kevin and Ben know how you want to present GI-199 and what we can do to support you. One thought is that we may need to indicate a consideration of tsunami for coastal or near-coastal plants in the information we request from licensees although that isn't something we've discussed to-date.  
Doug

---

**From:** Hiland, Patrick MKR  
**Sent:** Wednesday, March 16, 2011 8:57 PM  
**To:** Skeen, David  
**Cc:** Coe, Doug; Beasley, Benjamin  
**Subject:** FW: Response requested: Assistance with Commission Brief

p.s. I can handle GI-199, but RES (Coe or Beasley) did the heavy lifting.

release

---

**From:** Howe, Allen MKR  
**Sent:** Wednesday, March 16, 2011 4:47 PM  
**To:** Ruland, William; Brown, Frederick; McGinty, Tim; Blount, Tom; Quay, Theodore; Lubinski, John; Thomas, Brian; Nelson, Robert; Giitter, Joseph; Westreich, Barry; Bahadur, Sher; Holian, Brian; Cheok, Michael; Lee, Samson; Wilson, George; Hiland, Patrick; Skeen, David  
**Cc:** Martin, Robert; Meighan, Sean  
**Subject:** Response requested: Assistance with Commission Brief

4/89

**Importance:** High

LT – I am looking for the right folks to pull together background information, slides, key messages, talking points and possible Q&A for the Commission briefing on the Japan event. The briefing is likely to happen Monday. Looks like a busy weekend. I will attend the ET standup tomorrow to discuss. Please let me know who will support. The areas where NRR has the lead and where specific support is needed are as follows:

**Situation Assessment For US Reactors and Applicants – Marty Virgilio– lead NRR, RES support**

- External Events
  - Seismic – DE
  - Flood -DE
  - Tsunamis - DE
- Severe Accidents
  - SBO - DE/DRA
  - B.5.b/50.54 (hh)(2) – DRA/DIRS
  - SAMGs - DSS
  - Hydrogen control DSS
  - Emergency planning - NSIR
- Spent fuel – DSS, NMSS support for dry casks

**Path Forward and Priorities – Eric Leeds – lead NRR**

- Near Term Actions
  - In Support of Response
  - Near term regulatory actions - DPR
  - TI for inspections - DIRS
  - Generic Communications - DPR
  - Licensing actions – DORL
- Longer Term Actions
  - Lessons Learned From this Event – process based on past lessons learned e.g. TMI, Chernobyl, Davis-Besse, Japan earthquake at KK
  - Resolution of GSI 199 - DE
- Industry actions

Thanks - Allen



Attachment Seismic QAs March 17th 2am update.msg (2560 Bytes) cannot be converted to PDF format.

*inner*  
**From:** Gray, Kathy  
**To:** Brown, Frederick; Uhle, Jennifer; Skeen, David; Dudes, Laura; Hiland, Patrick; Case, Michael; Ruland, William; Holian, Brian  
**Cc:** Evans, Michele; Thorp, John; Thomas, Eric; Collins, Frank; Hasselberg, Rick; Holahan, Gary; OST02 HOC; McGinty, Tim; Lubinski, John; Gray, Kathy  
**Subject:** (Resending) RST Director Schedule for March 19-April 10 (Resending)  
**Date:** Thursday, March 17, 2011 10:45:43 AM  
**Attachments:** [RST Director Schedule 1.docx](#)  
**Importance:** High

---

I thought it might be best to resend the RST Director Schedule for March 19 – April 10 since we were experiencing slow service yesterday.

If you have any questions or conflicts with the proposed schedule please let me know ASAP w/cc to Eric Thomas. Thanks!

*release*

*inner*  
**From:** Gray, Kathy  
**Sent:** Wednesday, March 16, 2011 4:48 PM  
**To:** Brown, Frederick; Uhle, Jennifer; Skeen, David; Dudes, Laura; Hiland, Patrick; Case, Michael; Ruland, William; Holian, Brian  
**Cc:** Evans, Michele; Thorp, John; Thomas, Eric; Collins, Frank; Hasselberg, Rick; Holahan, Gary; OST02 HOC; McGinty, Tim; Lubinski, John  
**Subject:** RE: Staffing the Ops Center 24/7

RST Directors:

Attached you will find the RST Director schedule for March 19-April 10. If you have any questions or conflicts, please let me know. Thanks!

*release*

*inner*  
**From:** Brown, Frederick  
**Sent:** Tuesday, March 15, 2011 9:28 PM  
**To:** Uhle, Jennifer; Skeen, David; Dudes, Laura; Hiland, Patrick; Monninger, John; Case, Michael; Holahan, Gary; Ruland, William; Giitter, Joseph  
**Cc:** Evans, Michele; Thorp, John; Thomas, Eric; Gray, Kathy; Collins, Frank; Hasselberg, Rick  
**Subject:** Re: Staffing the Ops Center 24/7

I'm going to ask John Thorp to have Kathy Gray coordinate the RST director position for us.

*release*

*inner*  
**From:** OST02 HOC  
**To:** Uhle, Jennifer; Skeen, David; Dudes, Laura; Hiland, Patrick; Monninger, John; Case, Michael; Holahan, Gary; Ruland, William; Brown, Frederick  
**Cc:** Evans, Michele  
**Sent:** Tue Mar 15 18:20:18 2011  
**Subject:** Staffing the Ops Center 24/7

**RST Directors:**

Per EDO direction we plan to staff the Ops Center 24/7 while we have staff dispatched in Japan. And we are currently planning to identify a second team to send to Japan in about 2 weeks, with the idea that they may stay there for an additional two weeks. That would take us out to April 10 or so.

*4/90*

Staffing in the IRC will remain at the current levels for potentially another week. Possibly we will be able to scale back somewhat at that point. The intent is to develop a schedule through April 10 at this point. The immediate focus is to staff for the first week, starting Saturday March 19.

We'd like to have a little more consistency in the staffing of most positions. So we'd like to staff the **RST director** in 4 day blocks, three shifts each day, starting March 19.

**Fred Brown/Tim McGinty/John Lubinski** has offered to take the lead to coordinate among the potential **RST** Directors to fill the schedule. Please work with him and provide at least the schedule for the first four day block by COB Wednesday March 16.

*Michele*

3/16/2011  
4:30pm

## Reactor Safety Team (RST) Director Schedule

### March 18 – March 25, 2011

Shift	3/18 (Fri)	3/19 (Sat)	3/20 (Sun)	3/21 (Mon)	3/22 (Tues)	3/23 (Wed)	3/24 (Thur)	3/25 (Fri)
7am–3pm	(Laura Dudes)	Laura Dudes	Laura Dudes	Fred Brown	Fred Brown	Fred Brown	Fred Brown	Pat Hiland
3pm–11pm	(Bill Ruland)	Dave Skeen	Dave Skeen	Dave Skeen	Dave Skeen	Bill Ruland	Bill Ruland	Bill Ruland
11pm–7am	Jennifer Uhle	Jennifer Uhle	Jennifer Uhle	Jennifer Uhle	Brian Holian	Brian Holian	Brian Holian	Brian Holian

### March 26 – April 2, 2011

Shift	3/26 (Sat)	3/27 (Sun)	3/28 (Mon)	3/29 (Tues)	3/30 (Wed)	3/31 (Thur)	4/1 (Fri)	4/2 (Sat)
7am–3pm	Pat Hiland	Pat Hiland	Pat Hiland	Jennifer Uhle	Jennifer Uhle	Jennifer Uhle	Jennifer Uhle	Brian Holian
3pm–11pm	Bill Ruland	Fred Brown	Fred Brown	Fred Brown	Fred Brown	Bill Ruland	Bill Ruland	Bill Ruland
11pm–7am	Mike Case	Mike Case	Mike Case	Mike Case	Dave Skeen	Dave Skeen	Dave Skeen	Dave Skeen

### April 3 – April 10, 2011

Shift	4/3 (Sun)	4/4 (Mon)	4/5 (Tues)	4/6 (Wed)	4/7 (Thur)	4/8 (Fri)	4/9 (Sat)	4/10 (Sun)
7am–3pm	Brian Holian	Brian Holian	Brian Holian	Mike Case	Mike Case	Mike Case	Mike Case	Dave Skeen
3pm–11pm	Bill Ruland	Jennifer Uhle	Jennifer Uhle	Jennifer Uhle	Jennifer Uhle	Pat Hiland	Pat Hiland	Pat Hiland
11pm–7am	Laura Dudes	Laura Dudes	Laura Dudes	Laura Dudes	Fred Brown	Fred Brown	Fred Brown	Fred Brown



*NR*  
**From:** [Hiland, Patrick](#)  
**To:** [Wilson, George](#)  
**Subject:** FW: Additional Staff requirements outside Ops Center Long Term Staffing  
**Date:** Thursday, March 17, 2011 3:51:00 PM  
**Importance:** High

---

You might want to volunteer unless you have another IRC position? Can't think of anyone else; perhaps Marty? Need to know way around NRC.

*NR*  
**From:** Givvines, Mary  
**Sent:** Thursday, March 17, 2011 3:48 PM  
**To:** Givvines, Mary; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Cunningham, Mark; Evans, Michele; Galloway, Melanie; Giitter, Joseph; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; Lund, Louise; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David  
**Cc:** Leeds, Eric; Grobe, Jack; Boger, Bruce  
**Subject:** RE: Additional Staff requirements outside Ops Center Long Term Staffing  
**Importance:** High

All,

I only received 1 name from DPR and the rest are from PMDA. Any others as I need to respond today.

*NR*  
**From:** Givvines, Mary  
**Sent:** Wednesday, March 16, 2011 12:57 PM  
**To:** Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; 'Cunningham, Mark'; Evans, Michele; Galloway, Melanie; Giitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; Lund, Louise; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David  
**Cc:** Leeds, Eric; Grobe, Jack; Boger, Bruce  
**Subject:** FW: Additional Staff requirements outside Ops Center Long Term Staffing  
**Importance:** High

All,

I will go ahead and lead this effort to obtain a list of potential staff. I know that Bill is super busy – can you provide me with names and I will forward to the EDO office? I would appreciate sending me names by noon tomorrow.

Thanks

*NR*  
**From:** Grobe, Jack  
**Sent:** Wednesday, March 16, 2011 11:18 AM  
**To:** Givvines, Mary; Ruland, William  
**Cc:** Leeds, Eric; Boger, Bruce  
**Subject:** Fw: Additional Staff requirements outside Ops Center Long Term Staffing  
**Importance:** High

Mary and Bill.

Please take the lead and respond directly.

V/a1



Jack Grobe, Deputy Director, NRR

---

**From:** Muessele, Mary *DM*

**To:** Evans, Michele; Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitis, Spiros; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Greene, Kathryn; Stewart, Sharon; Howard, Patrick; Miller, Charles; Moore, Scott; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Dorman, Dan; Johnson, Michael; Holahan, Gary; Leeds, Eric; Boger, Bruce; Grobe, Jack; Zimmerman, Roy; Campbell, Andy; Sheron, Brian; Uhle, Jennifer; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Casto, Chuck; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Andersen, James; Akstulewicz, Brenda; Belmore, Nancy; Quesenberry, Jeannette; Kreuter, Jane; Armstrong, Janine; Hudson, Sharon; Ellis, Marv; Hasan, Nasreen; Ronewicz, Lynn; Schumann, Stacy; Daniels, Stanley; Casby, Marcia; Thomas, Loretta; Walker, Dwight; Sprogeris, Patricia; Schwarz, Sherry; Ross, Robin; Cohen, Shari; Riddick, Nicole; Flory, Shirley; Veltri, Debra; Matakas, Gina; ODaniell, Cynthia; Miles, Patricia; Lee, Pamela; Dubose, Sheila; Buckley, Patricia; Tomczak, Tammy; Owen, Lucy; Tannenbaum, Anita; Gusack, Barbara; Harrington, Holly; Ricketts, Paul; Howell, Linda; Higginbotham, Tina; Ross, Brenda; Boyce, Thomas (OIS); Schaeffer, James; Jackson, Donald

**Cc:** Williams, Shawn; Andersen, James; Ramsey, Jack

**Sent:** Wed Mar 16 09:31:40 2011

**Subject:** Additional Staff requirements outside Ops Center Long Term Staffing

OPA and OIP expect large call volumes today and in the next few weeks given expected news from Japan. OIP is looking for names of people who have desk officer or other OIP or international experience to assist them in the event that current staff cannot meet the work demands for call inquiries as well as ongoing international work. Please provide Shawn Williams and I a list of names that could serve to help OIP in this capacity and their general availability over the next week and month. It is difficult to determine the need level at this time, but as in the Op Center, it is anticipated OIP will have for an additional month. We would like the list of names by COB today.

Thanks

Mary

Mary Muessele

Assistant for Operations - Acting

Office of the Executive Director for Operations

U.S. Nuclear Regulatory Commission

301-415-1703 office

301-415-2700 fax

---

**From:** Evans, Michele *MSK*

**Sent:** Tuesday, March 15, 2011 5:53 PM

**To:** Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitis, Spiros; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Greene, Kathryn; Stewart, Sharon; Howard, Patrick; Miller, Charles; Moore, Scott; Cohen, Miriam; Tracy, Glenn; Haney, Catherine; Dorman, Dan; Johnson, Michael; Holahan, Gary; Leeds, Eric; Boger, Bruce; Grobe, Jack; Zimmerman, Roy; Campbell, Andy; Sheron, Brian; Uhle, Jennifer; Dean, Bill; Lew, David; McCree, Victor; Wert, Leonard; Casto, Chuck; Satorius, Mark; Pederson, Cynthia; Collins, Elmo; Howell, Art; Muessele, Mary; Andersen, James; Akstulewicz, Brenda; Belmore, Nancy; Quesenberry, Jeannette; Kreuter, Jane; Armstrong, Janine; Hudson, Sharon; Ellis, Marv; Hasan, Nasreen; Ronewicz, Lynn; Schumann, Stacy; Daniels, Stanley; Casby, Marcia; Thomas, Loretta; Walker, Dwight; Sprogeris, Patricia; Schwarz, Sherry; Ross, Robin; Cohen, Shari; Riddick, Nicole; Flory, Shirley; Veltri, Debra; Matakas, Gina; ODaniell, Cynthia; Miles, Patricia; Lee, Pamela; Dubose, Sheila; Buckley, Patricia; Tomczak, Tammy; Owen, Lucy; Tannenbaum, Anita; Gusack, Barbara; Harrington, Holly; Ricketts, Paul; Howell, Linda; Higginbotham, Tina; Ross, Brenda; Boyce,

Thomas (OIS); Schaeffer, James; Jackson, Donald

**Subject:** Follow-up from 4 pm teleconference on Ops Center Long Term Staffing

Everyone,

Please find attached 1) a list of current positions being staffed in the Ops Center and 2) the staff identified as available to support in Japan.

Regarding additional staff available to support in the ops center, the primary needs are for the specialized positions on the PMT and anyone with previous international experience in OIP.

Regarding support in Japan, please provide any updates/changes to the list by COB March 17. The target time frame for sending these staff members is March 27-April 9, so please consider that when considering staff to put on the list.

Thanks for your support.

*Michele*



*NR*  
**From:** Givvines, Mary  
**To:** Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheek, Michael; Evans, Michele; Galloway, Melanie; Glitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David; Westreich, Barry  
**Cc:** NRR BRANCH CHIEFS; Leeds, Eric; Grobe, Jack; Boger, Bruce; Gorham, Tajuan; Compton, Makeeka  
**Subject:** FW: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN  
**Date:** Thursday, March 17, 2011 9:33:05 AM  
**Attachments:** Memo re- Waiver of Work Schedule and Pay Cap Rules for Work in Response to the Events in Japan..pdf

---

LT,

If the attached memo still doesn't address all your staff's work schedule flexibilities while supporting the Japan situation – please let me know.

Mary

*HK*  
**From:** Khan, Charline  
**Sent:** Thursday, March 17, 2011 7:29 AM  
**To:** RidsAcrsAcnw\_MailCTR Resource; RidsAslbpManagement Resource; RidsOgcMailCenter Resource; RidsOcaaMailCenter Resource; RidsOcofMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; RidsOcaMailCenter Resource; RidsOpaMail Resource; RidsSecyMailCenter Resource; RidsSecyCorrespondenceMCTR Resource; RidsEdoMailCenter Resource; RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsOeMailCenter Resource; RidsFsmeOd Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsHrMailCenter Resource; RidsNroOd Resource; RidsNroMailCenter Resource; RidsNmssOd Resource; RidsNrrOd Resource; RidsNrrMailCenter Resource; RidsResOd Resource; RidsResPmdaMail Resource; RidsSbcrMailCenter Resource; RidsNsirOd Resource; RidsNsirMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource  
**Cc:** Davidson, Lawrence; Buchholz, Jeri; Johns, Nancy  
**Subject:** WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by J. Buchholz for/  
Office of Human Resources

DATED: March 16, 2011

**SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK IN RESPONSE TO THE EVENTS IN JAPAN**

ADAMS Accession No. ML11075A003 refers

**NOTE: Electronic distribution only**

*Charline Khan*  
**Administrative Assistant (Rotation)**  
**U.S. NUCLEAR REGULATORY COMMISSION**  
**Office of Human Resources**  
**P:301-492-2318**

V/92

***Charline.Khan@nrc.gov***

March 16, 2011

MEMORANDUM TO: Those on the Attached List

FROM: Miriam L. Cohen, Director/RA by **J. Buchholz** for/  
Office of Human Resources

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR  
WORK IN RESPONSE TO THE EVENTS IN JAPAN

I have approved a waiver of the U.S. Nuclear Regulatory Commission (NRC) work schedule rules, as well as a waiver of the biweekly cap on combined salary plus premium pay, for NRC employees serving in and supporting the NRC Operations Center, as well as NRC employees working in Japan, in response to the current, serious nuclear power plant issues in that country.

#### Work Schedule Limitations

NRC permits a variety of types of work schedules, including 5-4/9 compressed work schedules (CWS) and NEWFlex flexible work schedules that include limitations on permissible workdays and working clock hours. Other types of work schedules, including Expanded-Compressed work schedules (E-CWS) in emergency situations, and First-40 work schedules in unusual situations, do not contain such limitations. A summary of work schedule options may be found on the intranet at <http://www.internal.nrc.gov/HR/work-schedule.html>.

I have approved a waiver of limitations on permissible workdays and working clock hours for NRC employees working in response to these events. As a result, employees on 5-4/9 CWS may work weekends, employees on NEWFlex may work Sundays, and employees on both types of work schedules may work any clock hours, as appropriate (an exception to the 11.25 hour maximum limitation on NEWFlex workdays is not possible).

#### Biweekly Cap

As a matter of Federal-wide law and regulations, employees who are exempt from the Fair Labor Standards Act (most NRC employees are exempt) normally are subject to a biweekly cap on combined salary plus premium pay. This year, the cap is equal to the salary for GG-15 step 10. Premium pay includes the following categories: night premium pay, Sunday premium pay, holiday premium pay, overtime premium pay, and "regular" compensatory time off (not religious compensatory time off or Special Compensatory Time Off for Travel).

For further details, please see the February 3, 2011, NRC Announcement entitled "Employee Resources: 2011 Cap on Combined Salary Plus Premium Pay," available on the intranet at <http://www.internal.nrc.gov/announcements/items/7625.html>.



Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

MEMORANDUM TO THOSE ON THE ATTACHED LIST DATED: March 16, 2011

SUBJECT: WAIVER OF WORK SCHEDULE AND PAY CAP RULES FOR WORK  
IN RESPONSE TO THE EVENTS IN JAPAN

Edwin M. Hackett, Executive Director, Advisory Committee on Reactor Safeguards	RidsAcrsAcnw_MailCTR Resource
E. Roy Hawkens, Chief Administrative Judge, Atomic Safety and Licensing Board Panel	RidsAslbpManagement Resource
Stephen G. Burns, General Counsel	RidsOgcMailCenter Resource
Brooke D. Poole, Director, Office of Commission Appellate Adjudication	RidsOcaaMailCenter Resource
James E. Dyer, Chief Financial Officer	RidsOcfoMailCenter Resource
Hubert T. Bell, Inspector General	RidsOigMailCenter Resource
Margaret M. Doane, Director, Office of International Programs	RidsOipMailCenter Resource
Rebecca L. Schmidt, Director, Office of Congressional Affairs	RidsOcaMailCenter Resource
Eliot B. Brenner, Director, Office of Public Affairs	RidsOpaMail Resource
Annette Vietti-Cook, Secretary of the Commission	RidsSecyMailCenter Resource
	RidsSecyCorrespondenceMCTR Resource
R. William Borchardt, Executive Director for Operations	RidsEdoMailCenter Resource
Michael F. Weber, Deputy Executive Director for Materials, Waste, Research, State, Tribal, and Compliance Programs, OEDO	RidsEdoMailCenter Resource
Darren B. Ash, Deputy Executive Director for Corporate Management, OEDO	RidsEdoMailCenter Resource
Martin J. Virgilio, Deputy Executive Director for Reactor and Preparedness Programs, OEDO	RidsEdoMailCenter Resource
Mary C. Muessle, Acting Assistant for Operations, OEDO	RidsEdoMailCenter Resource
Kathryn O. Greene, Director, Office of Administration	RidsAdmMailCenter Resource
Patrick D. Howard, Director, Computer Security Office	RidsCsoMailCenter Resource
Roy P. Zimmerman, Director, Office of Enforcement	RidsOeMailCenter Resource
Charles L. Miller, Director, Office of Federal and State Materials and Environmental Management Programs	RidsFsmeOd Resource
Cheryl L. McCrary, Director, Office of Investigations	RidsOiMailCenter Resource
Thomas M. Boyce, Director, Office of Information Services	RidsOis Resource
Miriam L. Cohen, Director, Office of Human Resources	RidsHRMailCenter Resource
Michael R. Johnson, Director, Office of New Reactors	RidsNroOd Resource
	RidsNroMailCenter Resource
Catherine Haney, Director, Office of Nuclear Material Safety and Safeguards	RidsNmssOd Resource
Eric J. Leeds, Director, Office of Nuclear Reactor Regulation	RidsNrrOd Resource
	RidsNrrMailCenter Resource
Brian W. Sheron, Director, Office of Nuclear Regulatory Research	RidsResOd Resource
	RidsResPmdaMail Resource
Corenthis B. Kelley, Director, Office of Small Business and Civil Rights	RidsSbcrMailCenter Resource
James T. Wiggins, Director, Office of Nuclear Security and Incident Response	RidsNsirOd Resource
William M. Dean, Regional Administrator, Region I	RidsNsirMailCenter Resource
Victor M. McCree, Regional Administrator, Region II	RidsRgn1MailCenter Resource
Mark A. Satorius, Regional Administrator, Region III	RidsRgn2MailCenter Resource
Elmo E. Collins, Jr., Regional Administrator, Region IV	RidsRgn3MailCenter Resource
	RidsRgn4MailCenter Resource

Those on the Attached List

2

### Annual Cap

Federal law and regulations permit agencies to waive the biweekly cap and to adopt an annual cap on combined salary plus premium pay when, among other reasons, an employee receives premium pay for work directly related to resolving or coping with an emergency (or its immediate aftermath) that involves a direct threat to life or property.

I have approved a waiver of the biweekly cap and adoption of an annual cap for NRC employees working in response to these events.

### Procedures

Note that employees who are responding to these events will be provided a document summarizing their work schedule options as well as their entitlements to premium pay.

Employees should consult with their time and attendance officials about any necessary changes to their Human Resources Management System workgroups.

Management should advise Jackie Jones, Financial Services Branch, Office of the Chief Financial Officer, of the names of employees who perform emergency-related premium work as well as the dates of such work. Please submit this information to Ms. Jones via a memorandum mailed to T-9 E2, or via e-mail to [Jackie.Jones@nrc.gov](mailto:Jackie.Jones@nrc.gov). It is important to provide Ms. Jones this information as soon as practicable after the work begins to avoid difficulties processing the appropriate payments as the annual cap will be made effective at the beginning of the pay period in which the work was performed.

Should you have any questions on this matter, please contact me or have a member of your staff contact Larry Davidson at (301) 492-2286 or [Lawrence.davidson@nrc.gov](mailto:Lawrence.davidson@nrc.gov).

### DISTRIBUTION:

HR r/f

DIRECTORY/SUBDIRECTORY: G:\HRPP\PAY

DOCUMENT NAME: Waiver of Biweekly Cap for Japan Response.docx

WITS/EDO/HR TICKET NO. :

SUBJECT FILE FOLDER NAME:

ADAMS ACCESSION NUMBER: ML11075A003

☐ Publicly Available ☒ Non-Publicly Available ☐ Sensitive ☒ Non-Sensitive

OFFICE	HR/HRPP	HR/HRPP	HR/HROP	HR/ODD	HR/OD
NAME	LDavidson	NJohns LDavidson for	JBuchholz	GTracy JBuchholz for	MCohen JBuchholz for
DATE	3/16/2011	3/16/2011	3/16/2011	3/16/2011	3/16/2011

OFFICIAL RECORD COPY

Attachment NRC\_4.joboptions (13738 Bytes) cannot be converted to PDF format.



**From:** Hayden, Elizabeth  
**To:** Case, Michael  
**Subject:** FW: RESPONSE - Fact Sheet on NRC Seismic Regulation  
**Date:** Friday, March 18, 2011 7:05:56 PM

---

Please let me know about the release of this fact sheet per Brian's note.

*Beth*

---

**From:** Sheron, Brian  
**Sent:** Friday, March 18, 2011 5:36 PM  
**To:** Hayden, Elizabeth; Weber, Michael  
**Cc:** Leeds, Eric; Case, Michael; Bowman, Gregory; Landau, Mindy  
**Subject:** RE: RESPONSE - Fact Sheet on NRC Seismic Regulation

Beth, I was downtown most of the day and have not had a chance to read them. I will defer to Mike case's opinion.

---

**From:** Hayden, Elizabeth  
**Sent:** Friday, March 18, 2011 5:16 PM  
**To:** Sheron, Brian; Weber, Michael  
**Cc:** Leeds, Eric; Case, Michael; Bowman, Gregory; Landau, Mindy  
**Subject:** RE: RESPONSE - Fact Sheet on NRC Seismic Regulation

Are these OK for posting to our public website?

*Beth Hayden*  
*Senior Advisor*  
*Office of Public Affairs*  
*U.S. Nuclear Regulatory Commission*  
*--- Protecting People and the Environment*  
*301-415-8202*  
*elizabeth.hayden@nrc.gov*

---

**From:** Sheron, Brian  
**Sent:** Friday, March 18, 2011 5:13 PM  
**To:** Weber, Michael; Hayden, Elizabeth  
**Cc:** Leeds, Eric; Case, Michael; Bowman, Gregory; Landau, Mindy  
**Subject:** RE: RESPONSE - Fact Sheet on NRC Seismic Regulation

Yes, RES, NRR, and NRO staff put them together. Mike Case is the POC.

---

**From:** Weber, Michael  
**Sent:** Friday, March 18, 2011 5:10 PM  
**To:** Hayden, Elizabeth  
**Cc:** Sheron, Brian; Leeds, Eric; Case, Michael; Bowman, Gregory; Landau, Mindy  
**Subject:** RESPONSE - Fact Sheet on NRC Seismic Regulation

They were prepared by RES with input from NRR, I think. Brian? Eric?

---

**From:** Hayden, Elizabeth

V/93



**Sent:** Friday, March 18, 2011 5:07 PM

**To:** Weber, Michael; LIA05 Hoc; RST01 Hoc

**Cc:** Bowman, Gregory; Wittick, Brian; Virgilio, Martin; Johnson, Michael; Brenner, Eliot; McIntyre, David; Burnell, Scott; OST02 HOC

**Subject:** RE: FYI - Fact Sheet on NRC Seismic Regulation

Where did these documents come from? The Fact Sheet is different from the one on our external website. Can these documents be posted to the Website under a special Key Topic we're creating to pull all relevant information into one area on the web?

*Beth Hayden*

*Senior Advisor*

*Office of Public Affairs*

*U.S. Nuclear Regulatory Commission*

*--- Protecting People and the Environment*

*301-415-8202*

*elizabeth.hayden@nrc.gov*

---

**From:** Weber, Michael

**Sent:** Friday, March 18, 2011 4:55 PM

**To:** LIA05 Hoc; RST01 Hoc

**Cc:** Bowman, Gregory; Wittick, Brian; Virgilio, Martin; Johnson, Michael; Brenner, Eliot; Hayden, Elizabeth; McIntyre, David; Burnell, Scott; OST02 HOC

**Subject:** FYI - Fact Sheet on NRC Seismic Regulation

Provided the attached to DOE in response to a request from the Secretary of Energy.

---

**From:** Case, Michael

**To:** peter.lyons@nuclear.energy.gov <peter.lyons@nuclear.energy.gov>

**Cc:** Sheron, Brian; Uhle, Jennifer; Munson, Clifford; Kammerer, Annie; Khanna, Meena; Chokshi, Niles; Wilson, George

**Sent:** Fri Mar 18 13:30:51 2011

**Subject:** Fact Sheet on NRC Seismic Regulation

Dr. Lyons:

Per your discussions with Brian, please find attached a one-page fact sheet on the NRC's Seismic Regulations (same information, one narrative, one bulletized).

**From:** Sheron, Brian  
**To:** Bonaccorso, Amy; Calvo, Antony; Case, Michael; Coe, Doug; Correia, Richard; Dion, Jeanne; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Rini, Brett; Sangimino, Donna-Marie; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: Press Release: NRC Informs U.S. Nuclear Power Plants on Japan Earthquake's Effects  
**Date:** Friday, March 18, 2011 5:36:06 PM  
**Attachments:** 11-052.pdf

---

**From:** OPA Resource  
**Sent:** Friday, March 18, 2011 5:13 PM  
**To:** Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffry; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason  
**Subject:** Press Release: NRC Informs U.S. Nuclear Power Plants on Japan Earthquake's Effects

Attached for immediate release.

Office of Public Affairs  
US Nuclear Regulatory Commission  
301-415-8200  
opa.resource@nrc.gov

V/94



# NRC NEWS

**U.S. NUCLEAR REGULATORY COMMISSION**

Office of Public Affairs

Telephone: 301/415-8200

Washington, D.C. 20555-0001

E-mail: [opa.resource@nrc.gov](mailto:opa.resource@nrc.gov) Site: [www.nrc.gov](http://www.nrc.gov)

Blog: <http://public-blog.nrc-gateway.gov>

No. 11-051

March 18, 2011

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

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

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

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

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

###

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

**From:** Valentin, Andrea  
**To:** Gibson, Kathy; Scott, Michael; Case, Michael; Richards, Stuart; Coe, Doug; Coyne, Kevin; Kardaras, Tom  
**Subject:** FW: Work Schedule and Pay Guidance for Reponders to Japan Events  
**Date:** Friday, March 18, 2011 7:15:34 AM  
**Attachments:** Work Schedule and Premium Pay Guidance for Japan Response 3.docx

---

In case you did not get this directly.

---

**From:** Sheron, Brian  
**Sent:** Friday, March 18, 2011 7:11 AM  
**To:** Valentin, Andrea; Uhle, Jennifer  
**Subject:** Fw: Work Schedule and Pay Guidance for Reponders to Japan Events

---

**From:** OST01 HOC  
**To:** Abrams, Charlotte; Adams, John; Afshar-Tous, Mugeh; Alemu, Bezakulu; Alter, Peter; Anderson, James; Ashkeboussi, Nima; Baker, Stephen; Bergman, Thomas; Berry, Rollie; Bloom, Steven; Blount, Tom; Boger, Bruce; Bower, Anthony; Brandon, Lou; Brandt, Philip; Brock, Kathryn; Brown, Cris; Brown, David; Brown, Eva; Brown, Frederick; Bukharin, Oleg; Camper, Larry; Carpenter, Cynthia; Case, Michael; Casto, Greg; Cervera, Margaret; Chazell, Russell; Chen, Yen-Ju; Chokshi, Niles; Chowdhury, Prosanta; Circle, Jeff; Clement, Richard; Clinton, Rebecca; Collins, Frank; Cool, Donald; Costa, Arlon; Crutchley, Mary Glenn; Cruz, Zahira; Dacus, Eugene; DeCicco, Joseph; Decker, David; Dembek, Stephen; Devlin, Stephanie; Doane, Margaret; Dorman, Dan; Dozier, Jerry; Droggitis, Spiros; Dudek, Michael; Dudes, Laura; Emche, Danielle; English, Lance; Erlanger, Craig; Esmaili, Hossein; Figueroa, Roberto; Fiske, Jonathan; Franovich, Rani; Fuller, Edward; Galletta, Thomas; Gambone, Kimberly; Giitter, Joseph; Gordon, Dennis; Gott, William; Grant, Jeffery; Grobe, Jack; Hale, Jerry; Hardesty, Duane; Hart, Ken; Hart, Michelle; Hasselberg, Rick; Henderson, Karen; Hiland, Patrick; Holahan, Patricia; Holahan, Vincent; Holian, Brian; Huyck, Doug; Howard, Tabitha; Huffert, Anthony; Hurd, Sapna; Isom, James; Jackson, Karen; Jessie, Janelle; Johnson, Michael; Jolicoeur, John; Jones, Andrea; Jones, Cynthia; Kahler, Carolyn; Kammerer, Annie; Karas, Rebecca; Khan, Omar; Kowalczyk, Jeffrey; Kozal, Jason; Kratchman, Jessica; Kugler, Andrew; Lamb, Christopher; Larson, Emily; LaVie, Steve; Lewis, Robert; Li, Yong; Lombard, Mark; Lubinski, John; Lynch, Jeffery; Mamish, Nader; Manahan, Michelle; Marksberry, Don; Marshall, Jane; Mayros, Lauren; Mazaika, Michael; McConnell, Keith; McCoppin, Michael; McDermott, Brian; McGinty, Tim; McMurtry, Anthony; Merritt, Christina; Meyer, Karen; Miller, Charles; Miller, Chris; Milligan, Patricia; Mohseni, Aby; Moore, Scott; Morlang, Gary; Morris, Scott; Mroz (Sahm), Sara; Munson, Clifford; Murray, Charles; Nerret, Amanda; Norris, Michael; Norton, Charles; Ordaz, Vonna; Padovan, Mark; Patel, Jay; Parillo, John; Pope, Tia; Purdy, Gary; Quinlan, Kevin; Ragland, Robert; Ralph, Melissa; Reed, Elizabeth; Reed, Wendy; Reis, Terrence; Riley (OCA), Timothy; Rini, Brett; Rodriguez-Luccioni, Hector; Rosenberg, Stacey; Ross-Lee, MaryJane; Roundtree, Amy; Ruland, William; Salay, Michael; Salus, Amy; Sanfilippo, Nathan; Scarbrough, Thomas; Schaperow, Jason; Schmidt, Duane; Schoenebeck, Greg; Schrader, Eric; Schwartzman, Jennifer; Seber, Dogan; Shane, Raeann; Shea, James; Shepherd, Jill; Sheron, Brian; Skeen, David; Sloan, Scott; Smiroldo, Elizabeth; Smith, Theodore; Stahl, Eric; Stang, Annette; Steger (Tucci), Christine; Stieve, Alice; Stone, Rebecca; Stransky, Robert; Sturz, Fritz; Sullivan, Randy; Sun, Casper; Tappert, John; Temple, Jeffrey; Thaggard, Mark; Thomas, Eric; Thorp, John; Tobin, Jennifer; Trefethen, Jean; Tschiltz, Michael; Turtill, Richard; Uhle, Jennifer; Valencia, Sandra; Vaughn, James; Vick, Lawrence; Wastler, Sandra; Watson, Bruce; Weber, Michael; Webber, Robert; White, Bernard; Wiggins, Jim; Williams, Donna; Williams, Joseph; Williamson, Linda; Willis, Dori; Wimbush, Andrea; Wittick, Brian; Wray, John; Wright, Lisa (Gibney); Wright, Ned; Wunder, George; Young, Francis; Zimmerman, Roy  
**Cc:** OST02 HOC; OST01 HOC  
**Sent:** Fri Mar 18 05:05:47 2011  
**Subject:** Work Schedule and Pay Guidance for Reponders to Japan Events

---

**From:** Davidson, Lawrence  
**Sent:** Thursday, March 17, 2011 5:14 PM

4/95

**To:** OST02 HOC; McMurtray, Anthony  
**Cc:** Evans, Michele; Johns, Nancy; Scott, Tracy; Tallarico, Alison  
**Subject:** FW:

Please distribute to everyone who serves in and supports the Ops Center in response to the events in Japan...

---

**From:** Davidson, Lawrence

**Sent:** Thursday, March 17, 2011 2:06 PM

**To:** Abraham, Susan; Abrams, Charlotte; Ader, Charles; Akstulewicz, Frank; Albert, Ronald; Allwein, Russell; Alston, Timothy; Andersen, James; Anderson, Joseph; Armentrout, Deborah; Ash, Darren; Ash, Melissa; Astwood, Heather; Auluck, Rajender; Austin, Joseph; Ayres, David; Bahadur, Sher; Bailey, Marissa; Bailey, Stewart; Baker, Pamela; Banas, Paul; Barss, Dan; Bartlett, Bruce; Bartley, Jonathan; Bartley, Malion; Batkin, Joshua; Baum, Robin; Bayliff, Shirley; Beardsley, James; Beasley, Benjamin; Bell, Hubert; Bell, Marvin; Bellamy, Ronald; Bellinger, Alesha; Benjamin, Jamie; Benner, Eric; Benney, Brian; Bergman, Thomas; Biggins, James; Bladey, Cindy; Blamey, Alan; Bloom, Steven; Bloomer, Tamara; Blount, Tom; Boger, Bruce; Boland, Anne; Bolduc, Angela; Bonser, Brian; Borchardt, Bill; Borden, William; Bouling, Ramona; Bower, Fred; Bower, Phyllis; Boyce, Tom (RES); Boyce, Thomas (OIS); Brady, Joseph; Brenner, Eliot; Brezovec, Michael; Broaddus, Doug; Brooks, Kenneth; Brown, Frederick; Brown, Tony; Brown, Milton; Brown, Rohn; Bubar, Patrice; Buchholz, Jeri; Buckley, Michael; Bumpass, Sheila; Burns, Stephen; Burritt, Arthur; Burton, Stephen; Burton, William; Bush-Goddard, Stephanie; Cain, Chuck; Caldwell, Robert; Calle, Joselito; Cameron, Jamnes; Campbell, Andy; Campbell, Larry; Campbell, Stephen; Campbell, Vivian; Camper, Larry; Caniano, Roy; Cardenas, Daniel; Carlson, Robert; Carpenter, Cynthia; Case, Michael; Casto, Chuck; Casto, Greg; Cataldo, Paul; Catts, Michelle; Champion, Bryan; Chang, Helen; Chang, Lydia; Cheok, Michael; Chernoff, Harold; Chernoff, Margaret; Chokshi, Niles; Christensen, Harold; Clark, Jeff; Clay, Earnestine; Clayton, Brent; Clifford, James; Cobey, Eugene; Cochrum, Steven; Coe, Doug; Cohen, Miriam; Cohen, Ronald; Cohen, Stephen; Colaccino, Joseph; Coleman, Judy; Collins, Daniel; Collins, Elmo; Conte, Richard; Cook, Christopher; Corbett, James; Cordes, John; Correia, Richard; Costello, Ralph; Coyne, Kevin; Croteau, Rick; Crowe, Eddy; Cruz, Jeffrey; Csontos, Aladar; Cubbage, Amy; Cubellis, Louis; Cullison, David; Curtis, David; Daley, Robert; Daly, Jill; Dambly, Jan; Daniel, Susan; Danna, James; Dapas, Marc; Davis, Henry; Davis, Jack; Davis, Marlone; Dean, Michael; Dean, Bill; Dehn, Janine; Delligatti, Mark; Dembek, Stephen; Demoss, Gary; Dennig, Robert; Dentel, Glenn; Desai, Binoy; Dias, Antonio; Diaz-Toro, Diana; Dickson, Billy; Dingbaum, Stephen; DiPaolo, Eugene; Dixon, John; Dixon-Herrity, Jennifer; Doane, Margaret; Dodmead, James; Doerflein, Lawrence; Donaldson, Leslie; Donnell, Tremaine; Donoghue, Joseph; Doornbos, Roger; Dorman, Dan; Dorsey, Jeryll; Dosch, William; Dreisbach, Jason; Droggitis, Spiros; Dudes, Laura; Dumbacher, David; Duncan, Eric; Dwyer, James; Dyer, Jim; Eads, Johnny; Easson, Pamela; Egan, Dennis; Egli, Richard; Einberg, Christian; Elkins, Scott; Ellegood, John; Elliott, Robert; Ellsbury, Richard; Erlanger, Craig; Ernstes, Michael; Brown, Cris; Evans, Carolyn; 'Michele.ca@nrc.gov'; Farnholtz, Thomas; Felts, Russell; Fenton, Darlene; Ferdas, Marc; Ferrell, Kimberly; Ficks, Ben; Fields, Leslie; Finney, Patrick; Fitch, Karen; Flanders, Scott; Flynn, Sean; Foster, Jack; Franke, Mark; Franovich, Rani; Fredericks, Carl; Freeman, Scott; Fretz, Robert; Frumkin, Daniel; Frye, Timothy; Fuller, Michael; Gaddy, Vincent; Gallo, Jenny; Galloway, Melanie; Gartman, Michael; Gavrilas, Mirela; Giantelli, Adelaide; Gibson, Kathy; Giessner, John; Giitter, Joseph; Givvines, Mary; Gody, Tony; Golder, Jennifer; Golshan, KG; Gorham, Tajuan; Gott, William; Graham, Thorne; Grancorvitz, Teresa; Grant, Jeffery; Graser, Dan; Gray, Mel; Greene, Kathryn; Grice, Thomas; Griffin, Steven; Grobe, Jack; Hawkins, Kimberly; Gusack, Barbara; Guthrie, Eugene; Guttmann, Jack; Haag, Robert; Habighorst, Peter; Hackett, Edwin; Haeg, Lucas; Haire, Mark; Hall, Donald; Hall, Patricia; Hamzehee, Hossein; Haney, Catherine; Hansell, Samuel; Harris, Tim; Harrison, Donnie; Hatchett, Gregory; Hawken, Roy; Hay, Michael; Hayden, Elizabeth; Hays, Myra; Heck, James; Heck, Jared; Helton, Shana; Henderson, Pamela; Hickey, James; Hiland, Patrick; Hills, David; Hilton, Nick; Hiltz, Thomas; Hirsch, Patricia; Hoeg, Tim; Hogan, Rosemary; Holahan, Gary; Holahan, Patricia; Holian, Brian; Holland, Crystal; Holody, Daniel; Holonich, Joseph; Holt, BJ; Hopper, George; Howard, Patrick; Howe, Allen; Howell, Art; Howell, Linda; Hoxie, Chris; Hsia, Anthony; Hsu, Caroline; Hsueh, Kevin; Huber, Deborah; Hudson, Jody; Humerick, David; Hunegs, Gordon; Hunter, James; Huth, Virginia; Hutto, Andy; Huyck, Doug; Imboden, Andy; Itzkowitz, Marvin; Jackson, Deborah; Jackson, Donald; Jackson, Terry; James, Lois; Jankovich, John; Janney, Margie; Jarvis, Rodney; Jenkins, Ronaldo; Jernell, Eleni; Johns, Nancy; Johnson, Michael; Johnson, Clay; Johnson, Robert; Jolicoeur, John; Jones, Bradley; Jones, Evan; Jones, William; Josey, Jeffrey; Jousra, Judith; Julian, Emile; Jung, Ian; Junge, Michael; Kahler, Robert; Kaplan, Michele; Karas, Rebecca; Kellar,



Ray; Kelley, Corenthis; Kemerer, Myron; Kemker, Brian; Kennedy, Kriss; Kennedy, Silas; Kerben, Valerie; Kern, David; Khanna, Meena; Kim, Yong; Kimble, Daniel; King, Donald; King, Michael; Kinneman, John; Kirkland, John; Kirkwood, Sara; Klein, Alex; Knutson, Ed; Kobetz, Timothy; Kokajko, Lawrence; Kolaczyk, Kenneth; Konzman, Carl; Koshy, Thomas; Kowal, Mark; Kramer, John; Krohn, Paul; Krsek, Robert; Krupnick, David; Kulesa, Gloria; Kulp, Jeffrey; Kunowski, Michael; Lam, Donna; Lambert, Kenneth; Landau, Mindy; Langan, Scott; Lankford, Jeffrey; Lantz, Ryan; Lara, Julio; Larkin, Grant; Laura, Richard; Layton, Michael; Le, Hong; Lee, Bert; Lee, David; Lee, Richard; Lee, Samson; Lee, Samuel; Leeds, Eric; Lennartz, Jay; Lesser, Mark; Lew, David; Lewis, Robert; Lipa, Christine; Lombard, Mark; Long, Chris; Lopez, Joseph; Lorson, Raymond; Loudon, Patrick; Lubinski, John; Luehman, James; Lui, Christiana; Lukes, Robert; Lund, Louise; Lupold, Timothy; Lyons-Burke, Kathy; Ma, May; Madden, Patrick; Madison, Wil; Magruder, Stewart; Mamish, Nader; Markley, Michael; Marshall, Jane; Marshfield, Mark; Martin, Gillian; Masnik, Michael; Masse, Todd; Matheson, Mary; Mathew, Roy; Matthews, David; Mattingley, Joel; Maxin, Mark; Mayfield, Michael; McCann, Carrie; McConnell, Keith; McCoppin, Michael; McCoy, Gerald; McCrary, Cheryl; McCree, Victor; McDermott, Brian; McGhee, James; McGill, Clinton; McGinty, Tim; McGowan, Anna; McHale, John; McKelvey, Harold; McKenna, Eileen; McKenney, Christopher; McKirgan, John; McMillan, Joseph; McMurtray, Anthony; Mendiola, Anthony; Meyer, David; Michalak, Paul; Miller, Charles; Miller, Chris; Miller, Geoffrey; Miller, Marie; Miller, Mark; Miller, Michael; Miotla, Sherri; Mitchell, Matthew; Mitchell, Reggie; Mohseni, Aby; Monk, Robert; Monninger, John; Montgomery, Jack; Moore, Scott; Moore, Thomas; Moorman, James; Morris, Eddie; Morris, James; Morris, R. Michael; Morris, Scott; Morrissey, Thomas; Moulding, Patrick; Moy, Romena; Mrowka, Lynn; Muessle, Mary; Munday, Joel; Murphy, Jerome; Murphy, Martin; Musser, Randy; Narick, Marianne; Nazario, Tomy; Nease, Rebecca; Neff, Deborah; Nelson, Robert; Nichols, Russell; Nieh, Ho; Norato, Michael; Norris, Michael; Nute-Blackshear, Lora; OBrien, Kenneth; OBryan, Phil; O'Donohue, Kathleen; Offutt, David; Ogle, Chuck; OKeefe, Neil; Okleson, Edward; Ordaz, Vonna; Orth, Steven; O'Sullivan, Kevin; Ott, William; Ousley, Elizabeth; Owens, Janice; Paradiso, Karen; Partlow, Benjamin; Pascarelli, Robert; Peck, Michael; Pederson, Cynthia; Pelke, Patricia; Pellet, John; Pelton, David; Peralta, Juan; Perry, Jamila; Perry, Neil; Persinko, Andrew; Peters, Sean; Peterson, Gordon; Peterson, Hironori; Pham, Bo; Phillips, Charles; Piccone, Josephine; Pool, Stephen; Poole, Brooke; Powell, Amy; Powell, Dawn; Powell, Raymond; Prescott, Peter; Pretzello, Andrew; Price, Georgette; Pruett, Troy; Pstrak, David; Pulliam, Timothy; Quay, Theodore; Quichocho, Jessie; Rabideau, Peter; Rahimi, Meraj; Raione, Richard; Rajnic, Cecilia; Ramirez, Frances; Rasmussen, Richard; Rasouli, Housman; Raspa, Rossana; Rayland, Andrew; Raymond, William; Reckley, William; Reddick, Darani; Reece, James; Regan, Christopher; Reis, Terrence; Remsburg, Kristy; Reynolds, Steven; Reynoso, John; Rheame, Cynthia; Ricci, John; Rich, Daniel; Rich, Thomas; Richards, Stuart; Ricketts, Paul; Riemer, Kenneth; Ring, Mark; Roach, Edward; Roach, Gregory; Roberts, Darrell; Rodgers, Felecia; Rogge, John; Rosenberg, Stacey; Ross, Thierry; Ross-Lee, MaryJane; Rothschild, Trip; Rough, Richard; Rowhani, Bahman; Royal, Judith; Rubenstein, James; Rubic, Mark; Ruiz, Robert; Ruland, William; Rule, David; Rutkowski, John; Rutledge, Steven; Rzepka, Robert; Sabisch, Andrew; Safford, Carrie; Salgado, Nancy; Salley, MarkHenry; Salter, Susan; Sanchez, Alba; Sanchez, Alfred; Sangimino, Donna-Marie; Santiago, Patricia; Santos, Cayetano; Sargent, Kimberly; Satorius, Mark; Schaaf, Robert; Schaeffer, James; Schmidt, Rebecca; Schneider, Max; Schnetzler, Bonnie; Schoenmann, Sandra; Schroeder, Daniel; Schum, Constance; Scott, Catherine; Scott, Michael; Sealing, Donna; Segala, John; Serepca, Beth; Seymour, Deborah; Shaeffer, Scott; Shaffer, Steve; Shannon, Mel; Shannon, Michael; Sharkey, Jeffry; Shay, Jason; Shear, Gary; Shehee, James; Sheron, Brian; Shields, James; Shoop, Undine; Shuaibi, Mohammed; Silva, Patricia; Simms, Sophonia; Skeen, David; Skokowski, Richard; Smith, Arthur; Smith, Brian; Smith, Galen; Smith, Rich; Smith, Tuwanda; Solorio, Dave; Sosa, Belkys; Sotiropoulos, Dina; Spencer, Mary; Spindler, David; Spitzberg, Blair; StAmour, Norman; Stablein, King; Stapleton, Bernard; Stetson, Kathleen; Stewart, Scott; Stewart, Sharon; Stoedter, Karla; Stone, AnnMarie; Suber, Gregory; Subosits, Stephen; Sullivan, Allen; Swain, Karol; Sydnor, Russell; Sykes, Marvin; Szyperski, Bill; Tailleart, Don; Talley, Sandra; Tappert, John; Tate, Travis; Taylor, Robert; Tenaglia, Mickey; Terao, David; Terry, Leslie; Thaggard, Mark; Thomas, Brian; Thomas, Christopher; Thorp, John; Tonacci, Mark; Tracy, Glenn; Tran, Tu; Trapp, James; Travick, Vanette; Trent, Glenn; Tschiltz, Michael; Turner, Joseph; Turtill, Richard; Uhle, Jennifer; Ulses, Anthony; Usilton, William; Valentin, Andrea; Vogel, Anton; Vias, Steven; Vietti-Cook, Annette; Virgilio, Martin; VonTill, Bill; Voytko, Victoria; Walker, Tracy; Walker, Wayne; Wall, Scott; Warnick, Greg; Wastler, Sandra; Waters, Michael; Watson, Bruce; Weaver, Doug; Webber, Robert; Weber, Michael; Weerakkody, Sunil; Welling, Blake; Werkheiser, David; Werner, Greg; Wert, Leonard; West, Garmon; West, Steven; Westreich, Barry; Whetstine, Jack; White, Duncan; White, Darrell; Whited, Ryan; Whitten, Jack; Widdup, Joseph; Widmann, Malcolm; Wiggins, Jim; Williams, Barbara; Williams, Evelyn; Williams, Kevin; Williams, Michael; Williams, Mona; Williams-Johnson, Patrice; Williamson, Edward; Wilson, Ernest; Wilson, George; Wilson, Peter; Wood, Gene; Wood, Kent; Wright, Lisa (Gibney); Wrona, David; Wunder,

George; Yerokun, Jimi; Young, Cale; Young, Mitzi; Zane, Steven; Zeiler, John; Zimmerman, Jacob; Zimmerman, Roy; Zabler, Marian

**Cc:** Scott, Tracy; Tallarico, Alison; Thoman, Raymond; Jones, Jackie; Blair, Tina; Chin, Allison; Dean, Vivian; Evans(HR), Marilyn; Himmelberg, Jude; Jackson, Briana; Jaigobind, Savi; Silberfeld, Dafna; Watson, Madonna; Williams, Michelle; Atkinson, Jeanne; Broadwater, Lynne; Brown, Keisa; Hicks, Beverly; Hicks, Valencia; Jonsson, Dawn; Lindsay, Sandy; Marziale, Riqueza; ORourke, Christine; Reeves, Gloria; Scott, Mary; Thomas-Richards, Karen; Todd, Colleen

**Subject:**

Managers, supervisors, team leaders, and T&L Coordinators,

Attached for your information is a document that addresses, in detail, work schedules and premium pay for individuals who serve in and support the NRC Operations Center or work in Japan, in response to the current, serious nuclear power plant issues in that country. NSIR and the NRC Japanese support team leader will provide the document to all participants.

T&L Coordinators, please note that participants in your organization may contact you to request a change in their HRMS workgroups for pay periods in which they perform emergency response work.

Participants should contact me if they have any questions on work schedules or premium pay.

Larry Davidson  
Office of Human Resources  
Nuclear Regulatory Commission  
301-492-2286; [lawrence.davidson@nrc.gov](mailto:lawrence.davidson@nrc.gov)

## **WORK SCHEDULE AND PREMIUM PAY GUIDANCE** **FOR RESPONSE TO EVENTS IN JAPAN**

Please first review this document and contact Larry Davidson of the Office of Human Resources (301-492-2286 or [lawrence.davidson@nrc.gov](mailto:lawrence.davidson@nrc.gov)) for any needed assistance.

### **Work Schedules**

One or more types of work schedules may be appropriate during a pay period in which you serve in and support the NRC Operations Center or work in Japan, in response to the current, serious nuclear power plant issues in that country. You are authorized to select the type of work schedule you will work during the pay period depending on:

- Your specific workdays and work clock hours in the Operations Center or in Japan, as well as any flexibility you have to choose those workdays and clock hours;
- Your entitlement to premium pay for work in the Operations Center or Japan;
- Your performance, if any, of regular duties outside of the Operations Center/Japan during the pay period; and,
- Your loss of earned credit hours if you switch from NEWFlex to another type of work schedule.

Possible work schedules include:

- Compressed work schedule – Appropriate if, during the entire pay period, your workdays and work clock hours are fixed (i.e., you do not have any flexibility to choose either) and there are fewer than ten nonovertime workdays in the pay period (at least one nonovertime workday contains more than eight nonovertime hours). Note that restrictions on nonovertime work clock hours and weekend workdays have been lifted for the pay period. An Expanded-Compressed Work Schedule may be appropriate (see the Yellow Announcement at <http://www.internal.nrc.gov/announcements/yellow/2003/2003-032.html> and Article 6.10.3 of the Collective Bargaining Agreement).
- NEWFlex - Appropriate if, during at least a portion of the pay period, you have some discretion to select your workdays and/or work clock hours (for example, if/when performing regular duties outside of the Operations Center or Japan). Note that restrictions on nonovertime work clock hours and weekend workdays have been lifted for the pay period.
- First-40 – Appropriate if it is impracticable to prescribe a regular schedule of definite hours of duty for each workday of the workweek (likely not appropriate).

Note that you must advise your T&L coordinator to change your HRMS workgroup if you change the type of schedule you work, e.g., if you normally work CWS and change to NEWFlex for the pay period in which you serve in and support the NRC Operations Center or work in Japan. Also note that if you switch from NEWFlex to another type of work schedule, you will lose and will be paid for any accumulated credit hours.

Also note that if you work fewer than 80 hours serving in and supporting the NRC Operations Center or working in Japan, your "home" supervisor will allow you discretion, to the extent possible, to decide how/when to cover any missing time.

### **Premium Pay**

Cap on Combined Salary Plus Premium Pay – The biweekly cap on premium pay has been lifted and will be applied on an annual basis during any pay period in which you serve in and support the NRC Operations Center or work in Japan (the annual cap will benefit you if you are paid a salary below the GG-15 step 10 salary rate). Your organization has been advised to contact CFO with employee names and dates of work.

Overtime pay or regular comp time – Overtime (limited to the higher of: your regular rate; or, 150% of GG-10 step 10) is paid for your work in excess of your full-time work schedule during the pay period. You may choose to be compensated via regular compensatory time off instead (limited to a 40-hour pay period carryover) if your overtime work was not scheduled in advance of the workweek, or regardless of when it was scheduled if you are on NEWFlex.

TRCs – Use "OT" for overtime pay and "COMPE" for regular comp time.

Night premium (10%) – This premium is paid for your *nonovertime* work between 6:00 p.m. and 6:00 a.m. the following morning, and for your *overtime* work during these clock hours if the work was scheduled in advance of the week in which you performed it. Also, this premium is paid for your periods of paid leave, if any, during night clock hours if, during the pay period, you have fewer than 8 hours of total paid leave inclusive of both night and day work.

TRC – NDIFF (hours must also be recorded under another TRC such as REG or OT).

Sunday premium (25%) – This premium is paid for your *nonovertime* work performed on a shift(s), any part(s) of which falls on a Sunday (e.g., a shift from Saturday at 6:00 p.m. to Sunday at 6:00 a.m.). Sunday premium is not payable for periods of nonwork, including leave, holidays not worked, and excused absence.

TRC – SUNP (hours must also be recorded under another TRC such as REG).

Standby status - You are eligible for special overtime pay if you are restricted by official order to a designated post of duty and assigned to be in a state of readiness to perform work, versus actually performing work, with limitations on your activities so substantial that you cannot use

your time effectively for your own purposes. We do not anticipate that any employee will be in a standby status.

### **Miscellaneous**

#### **Employee Assistance Program (EAP)**

Free, confidential counseling is available to you and your family members to address emotional issues, work problems, substance abuse, stress, crisis, marital/family concerns, financial matters, legal issues, eldercare resources, and childcare referrals. Call 1-800-869-0276 or check [www.eapconsultants.com](http://www.eapconsultants.com).

#### **Travel**

If you travel to/from Japan:

- Keep a log of specific travel times and work clock hours to help NRC compute your entitlement to compensation.
- Consider enrolling in the Smart Traveler Enrollment Program or STEP) to make it easier for the Embassy/Consulates to contact you in case of an emergency. You may enroll at <https://travelregistration.state.gov>, or if you have no internet access, directly at the U.S. Embassy or U.S. Consulates.
- If you are paid a salary below the GG-15 step 10 salary rate, you are entitled to overtime pay (limited to higher of: your regular rate; or, 150% of GG-10 step 10) for travel to/from Japan, and if the travel is during night hours (6:00 p.m. to 6:00 a.m.) and scheduled in advance of the workweek, you are also entitled to night premium pay. You may substitute regular compensatory time off (limited to a 40-hour pay period carryover) for overtime pay if your travel was not scheduled in advance of the workweek, or regardless of when it was scheduled if you are on NEWFlex.

TRCs – Use “OT” for overtime pay, “COMPE” for regular comp time, and “NDIFF” for night premium pay.



## Kauffman, John

---

**From:** Lane, John  
**Sent:** Friday, March 18, 2011 3:21 PM  
**To:** Kauffman, John  
**Subject:** FW: Staffing Plan  
**Attachments:** Staffing plan 3-19 - 3-25.pdf

---

**From:** OST02 HOC

**Sent:** Friday, March 18, 2011 3:06 PM

**To:** Abrams, Charlotte; Adams, John; Afshar-Tous, Mugeh; Alemu, Bezakulu; Alter, Peter; Anderson, James; Ashkeboussi, Nima; Athey, George; Baker, Stephen; Bergman, Thomas; Berry, Rollie; Bhachu, Ujagar; Bloom, Steven; Blount, Tom; Boger, Bruce; Borchardt, Bill; Bower, Anthony; Bowman, Gregory; Brandon, Lou; Brandt, Philip; Brock, Kathryn; Brown, Cris; Brown, David; Brown, Eva; Brown, Frederick; Brown, Michael; Bukharin, Oleg; Camper, Larry; Carpenter, Cynthia; Carter, Mary; Case, Michael; Casto, Greg; Cecere, Bethany; Cervera, Margaret; Chazell, Russell; Chen, Yen-Ju; Cheok, Michael; Chokshi, Niles; Chowdhury, Prosanta; Circle, Jeff; Clement, Richard; Clinton, Rebecca; Coggins, Anita; Collins, Frank; Cool, Donald; Costa, Arlon; Crutchley, Mary Glenn; Cruz, Zahira; Cutaia, Robert; Dacus, Eugene; DeCicco, Joseph; Decker, David; Dembek, Stephen; Devlin, Stephanie; Doane, Margaret; Dorman, Dan; Dorsey, Cynthia; Dozier, Jerry; Droggitis, Spiros; Dube, Donald; Dudes, Laura; Eads, Johnny; Emche, Danielle; English, Lance; Erlanger, Craig; Esmaili, Hossein; Figueroa, Roberto; Fiske, Jonathan; Floyd, Daphene; Foggie, Kirk; Foster, Jack; Fragoyannis, Nancy; Franovich, Rani; Frazier, Alan; Freshwater, David; Fuller, Edward; Galletta, Thomas; Gambone, Kimberly; Gibson, Kathy; Giitter, Joseph; Gilmer, James; Gordon, Dennis; Gott, William; Grant, Jeffery; Grimes, Kelly; Grobe, Jack; Gulla, Gerald; Hale, Jerry; Hardesty, Duane; Harris, Tim; Hart, Ken; Hart, Michelle; Harvey, Brad; Hasselberg, Rick; Henderson, Karen; Hiland, Patrick; Holahan, Patricia; Holahan, Vincent; Holian, Brian; Howard, Tabitha; Huffert, Anthony; Hurd, Sapna; Huyck, Doug; Isom, James; Jackson, Karen; Jacobson, Jeff; Jessie, Janelle; Johnson, Michael; Jolicoeur, John; Jones, Andrea; Jones, Cynthia; Kahler, Carolyn; Kammerer, Annie; Karas, Rebecca; Khan, Omar; Kolb, Timothy; Kotzalas, Margie; Kowalczyk, Jeffrey; Kratchman, Jessica; Kugler, Andrew; Lamb, Christopher; Lane, John; Larson, Emily; Laur, Steven; LaVie, Steve; Lewis, Robert; Li, Yong; Lising, Jason; Lombard, Mark; Lubinski, John; Lui, Christiana; Lynch, Jeffery; Mamish, Nader; Manahan, Michelle; Marksberry, Don; Marshall, Jane; Masao, Nagai; Maupin, Cardilia; Mayros, Lauren; Mazaika, Michael; McConnell, Keith; McCoppin, Michael; McDermott, Brian; McGinty, Tim; McGovern, Denise; McMurtray, Anthony; Merritt, Christina; Meyer, Karen; Miller, Charles; Miller, Chris; Milligan, Patricia; Mohseni, Aby; Moore, Scott; Morlang, Gary; Morris, Scott; Mroz (Sahm), Sara; Munson, Clifford; Murray, Charles; Nerret, Amanda; Nguyen, Carolyn; Norris, Michael; Norton, Charles; Ordaz, Vonna; Owens, Janice; Padovan, Mark; Parillo, John; Patel, Jay; Perin, Vanice; Pope, Tia; Powell, Amy; Purdy, Gary; Quinlan, Kevin; Ragland, Robert; Ragland, Randolph; Ralph, Melissa; Ramsey, Jack; Reed, Elizabeth; Reed, Sara; Reed, Wendy; Reis, Terrence; Resner, Mark; Riley (OCA), Timothy; Riner, Kelly; Rini, Brett; Robinson, Edward; Rodriguez-Luccioni, Hector; Rosenberg, Stacey; Ross-Lee, MaryJane; Roundtree, Amy; Ruland, William; Salay, Michael; Salter, Susan; Salus, Amy; Sanfilippo, Nathan; Scarbrough, Thomas; Schaperow, Jason; Schmidt, Duane; Schmidt, Rebecca; Schoenebeck, Greg; Schrader, Eric; Schwartzman, Jennifer; Seber, Dogan; See, Kenneth; Shane, Raeann; Shea, James; Shepherd, Jill; Sheron, Brian; Skeen, David; Sloan, Scott; Smirolodo, Elizabeth; Smith, Brooke; Smith, Theodore; Stahl, Eric; Stang, Annette; Steger (Tucci), Christine; Stieve, Alice; Stone, Rebecca; Stransky, Robert; Sturz, Fritz; Sullivan, Randy; Sun, Casper; Tappert, John; Temple, Jeffrey; Thaggard, Mark; Thomas, Eric; Thorp, John; Tobin, Jennifer; Trefethan, Jean; Tschiltz, Michael; Turtill, Richard; Uhle, Jennifer; Valencia, Sandra; Vaughn, James; Vick, Lawrence; Virgilio, Martin; Virgilio, Rosetta; Ward, Leonard; Wastler, Sandra; Watson, Bruce; Webber, Robert; Weber, Michael; White, Bernard; Wiggins, Jim; Wiggins, Jim; Williams, Donna; Williams, Joseph; Williamson, Linda; Willis, Dori; Wimbush, Andrea; Wittick, Brian; Wray, John; Wright, Lisa (Gibney); Wright, Ned; Wunder, George; Young, Francis; Zimmerman, Roy

**Subject:** Staffing Plan

This list is for next week Sat 3/19 at 7a.m. to Friday 3/25. We do recognize that some positions do not have full staffing. We are looking to fill those. If you know anyone who would want to fill them, have them contact OPS Center at 816-5100.

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Position	Date	Time	Staff
<b>Executive Team</b>			
<b>ET Director</b>			
Fri-Sat	3/18-3/19	11pm-7am	Roy Zimmerman
Sat	19-Mar	7am - 3pm	Jim Wiggins
Sat	19-Mar	3pm-11pm	Brian Sheron
Sat-Sun	3/19-3/20	11pm - 7am	Mike Johnson
Sun	20-Mar	7am - 3pm	Jim Wiggins
Sun	20-Mar	3pm-11pm	Brian Sheron
Sun-Mon	3/20-3/21	11pm - 7am	Mike Johnson
Mon	21-Mar	7am - 3pm	Mike Weber
Mon	21-Mar	3pm-11pm	Jim Wiggins
Mon-Tues	3/21-3/22	11pm - 7am	Mike Johnson
Tues	22-Mar	7am - 3pm	Mike Weber
Tues	22-Mar	3pm-11pm	Jim Wiggins
Tues-Wed	3/22-3/23	11pm - 7am	
Wed	23-Mar	7am - 3pm	Mike Weber
Wed	23-Mar	3pm-11pm	
Wed-Thur	3/23-3/24	11pm - 7am	
Thur	24-Mar	7am - 3pm	
Thur	24-Mar	3pm-11pm	
Thur-Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	
Fri	25-Mar	3pm-11pm	
Fri-Sat	3/25-3/26	11pm-7am	
	3/25-3/26	11pm-7am	
<b>ET Response Advisor</b>			
Fri-Sat	3/18-3/19	11pm-7am	Scott Morris
Sat	19-Mar	7am - 3pm	Brian McDermott
Sat	19-Mar	3pm-11pm	Mary Jane (MJ) Ross-Lee
Sat-Sun	3/19-3/20	11pm - 7am	Scott Morris
Sun	20-Mar	7am - 3pm	Chris Miller
Sun	20-Mar	3pm-11pm	Mary Jane (MJ) Ross-Lee
Sun-Mon	3/20-3/21	11pm - 7am	Scott Morris
Mon	21-Mar	7am - 3pm	Brian McDermott
Mon	21-Mar	3pm-11pm	Chris Miller
Mon-Tues	3/21-3/22	11pm - 7am	Scott Morris
Tues	22-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Tues	22-Mar	3pm-11pm	Chris Miller
Tues-Wed	3/22-3/23	11pm - 7am	Scott Morris
Wed	23-Mar	7am - 3pm	Brian McDermott
Wed	23-Mar	3pm-11pm	Chris Miller
Wed-Thur	3/23-3/24	11pm - 7am	Scott Morris
Thur	24-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Thur	24-Mar	3pm-11pm	Brian McDermott
Thur-Fri	3/24-3/25	11pm - 7am	Chris Miller
Fri	25-Mar	7am - 3pm	Mary Jane (MJ) Ross-Lee
Fri	25-Mar	3pm-11pm	Brian McDermott
Fri-Sat	3/25-3/26	11pm-7am	
<b>ET Rx Prot Measures &amp; State Coordinator</b>			
Fri-Sat	3/18-3/19	11pm-7am	Scott Moore

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Sat	19-Mar	7am - 3pm	Larry Camper
Sat	19-Mar	3pm-11pm	P. Holahan
Sat-Sun	3/19-3/20	11pm - 7am	K. McConnell
Sun	20-Mar	7am - 3pm	Vonna Ordaz
Sun	20-Mar	3pm-11pm	Larry Camper
Sun-Mon	3/20-3/21	11pm - 7am	Rob Lewis
Mon	21-Mar	7am - 3pm	Charlie Miller
Mon	21-Mar	3pm-11pm	Larry Camper
Mon-Tues	3/21-3/22	11pm - 7am	Rob Lewis
Tues	22-Mar	7am - 3pm	Charlie Miller
Tues	22-Mar	3pm-11pm	P. Holahan
Tues-Wed	3/22-3/23	11pm - 7am	C. Carpenter
Wed	23-Mar	7am - 3pm	Charlie Miller
Wed	23-Mar	3pm-11pm	P. Holahan
Wed-Thur	3/23-3/24	11pm - 7am	C. Carpenter
Thur	24-Mar	7am - 3pm	Charlie Miller
Thur	24-Mar	3pm-11pm	Larry Camper
Thur-Fri	3/24-3/25	11pm - 7am	C. Carpenter
Fri	25-Mar	7am - 3pm	Charlie Miller
Fri	25-Mar	3pm-11pm	P. Holahan
Fri-Sat	3/25-3/26	11pm-7am	C. Carpenter

**Executive Briefing Team**

<b>EBT Admin. Assistant</b>			
Fri-Sat	3/18-3/19	11pm-7am	Sapna Hurd
Sat	19-Mar	7am - 3pm	Carolyn Kahler
Sat	19-Mar	3pm-11pm	Annette Stang
Sat-Sun	3/19-3/20	11pm - 9am	Sapna Hurd
Sun	20-Mar	9am - 7pm	Annette Stang
Sun	3/20-3/21	7pm-7am	Carolyn Kahler
Sun-Mon	21-Mar	7am - 3pm	A. Stang (7-11) / Sapna Hurd (11-3)
Mon	21-Mar	3pm-11pm	Tia Pope
Mon	3/21-3/22	11pm - 7am	Christina Merritt
Mon-Tues	22-Mar	7am - 3pm	Carolyn Kahler/Sapna Hurd
Tues	22-Mar	3pm-11pm	Jon Fiske
Tues	3/22-3/23	11pm - 7am	Tia Pope
Tues-Wed	23-Mar	7am - 3pm	Jon Fiske
Wed	23-Mar	3pm-11pm	
Wed	3/23-3/24	11pm - 7am	Christina Merritt
Wed-Thur	24-Mar	7am - 3pm	Carolyn Kahler/Sapna Hurd
Thur	24-Mar	3pm-11pm	Andrea Wimbush
Thur	3/24-3/25	11pm - 7am	Tia Pope
Thur-Fri	25-Mar	7am - 3pm	Annette Stang
Fri	25-Mar	3pm-11pm	Carolyn Kahler
Fri	3/25-3/26	11pm-7am	Sapna Hurd
Fri-Sat			
<b>EBT Coordinator</b>			
Fri-Sat	3/18-3/19	11pm-7am	Jim Anderson
Sat	19-Mar	7am - 3pm	Christine Steger
Sat	19-Mar	3pm-11pm	Sara Mroz
Sat-Sun	3/19-3/20	11pm - 7am	Jim Anderson
Sun	20-Mar	7am - 3pm	Yen Chen

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE

MARCH 18-26

Sun	20-Mar	3pm-11pm	Sara Mroz
Sun-Mon	3/20-3/21	11pm - 7am	Jim Anderson
Mon	21-Mar	7am - 3pm	Yen Chen
Mon	21-Mar	3pm-11pm	Sara Mroz
Mon-Tues	3/21-3/22	11pm - 7am	Jim Anderson
Tues	22-Mar	7am - 3pm	Yen Chen
Tues	22-Mar	3pm-11pm	Sara Mroz
Tues-Wed	3/22-3/23	11pm - 7am	Jim Anderson
Wed	23-Mar	7am - 3pm	Yen Chen
Wed	23-Mar	3pm-11pm	Sara Mroz
Wed-Thur	3/23-3/24	11pm - 7am	Jim Anderson
Thur	24-Mar	7am - 3pm	Yen Chen
Thur	24-Mar	3pm-11pm	Sara Mroz
Thur-Fri	3/24-3/25	11pm - 7am	Jim Anderson
Fri	25-Mar	7am - 3pm	Yen Chen
Fri	25-Mar	3pm-11pm	Sara Mroz
Fri-Sat	3/25-3/26	11pm-7am	Jim Anderson
<b>Executive Support Team</b>			
<b>EST Status Officer</b>			
Fri-Sat	3/18-3/19	11pm-7am	Doug Huyck
Sat	19-Mar	7am - 3pm	Craig Erlanger
Sat	19-Mar	3pm-11pm	John Jolicoeur
Sat-Sun	3/19-3/20	11pm - 7am	Doug Huyck
Sun	20-Mar	7am - 3pm	Craig Erlanger
Sun	20-Mar	3pm-11pm	John Jolicoeur
Sun-Mon	3/20-3/21	11pm - 7am	Doug Huyck
Mon	21-Mar	7am - 3pm	Jane Marshall
Mon	21-Mar	3pm-11pm	Bill Gott
Mon-Tues	3/21-3/22	11pm - 7am	Jeff Grant
Tues	22-Mar	7am - 3pm	Jane Marshall
Tues	22-Mar	3pm-11pm	Bill Gott
Tues-Wed	3/22-3/23	11pm - 7am	Jeff Grant
Wed	23-Mar	7am - 3pm	Jane Marshall
Wed	23-Mar	3pm-11pm	Bill Gott
Wed-Thur	3/23-3/24	11pm - 7am	Jeff Grant
Thur	24-Mar	7am - 3pm	Jane Marshall
Thur	24-Mar	3pm-11pm	Bill Gott
Thur-Fri	3/24-3/25	11pm - 7am	Jeff Grant
Fri	25-Mar	7am - 3pm	Jane Marshall
Fri	25-Mar	3pm-11pm	Bill Gott
Fri-Sat	3/25-3/26	11pm-7am	Jeff Grant
<b>EST Actions Officer</b>			
Fri-Sat	3/18-3/19	11pm-7am	Amy Roundtree
Sat	19-Mar	7am - 3pm	Bezakulu Alemu
Sat	19-Mar	3pm-11pm	Melissa Ralph
Sat-Sun	3/19-3/20	11pm - 7am	Jonathan Fiske
Sun	20-Mar	7am - 3pm	Melissa Ralph
Sun	20-Mar	3pm-11pm	Jonathan Fiske
Sun-Mon	3/20-3/21	11pm - 7am	Dori Votolato-Willis
Mon	21-Mar	7am - 3pm	Melissa Ralph

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Mon	21-Mar	3pm-11pm	Amanda Nerret
Mon-Tues	3/21-3/22	11pm - 7am	Kelly Grimes
Tues	22-Mar	7am - 3pm	Melissa Ralph
Tues	22-Mar	3pm-11pm	Dori Votolato-Willis
Tues-Wed	3/22-3/23	11pm - 7am	Kelly Grimes
Wed	23-Mar	7am - 3pm	Melissa Ralph
Wed	23-Mar	3pm-11pm	Dori Votolato-Willis
Wed-Thur	3/23-3/24	11pm - 7am	Kelly Grimes
Thur	24-Mar	7am - 3pm	Wendy Reed
Thur	24-Mar	3pm-11pm	Dori Votolato-Willis
Thur-Fri	3/24-3/25	11pm - 7am	Jonathan Fiske
Fri	25-Mar	7am - 3pm	Amanda Nerret
Fri	25-Mar	3pm-11pm	Melissa Ralph
Fri-Sat	3/25-3/26	11pm-7am	Jonathan Fiske
<b>EST Coordinator</b>			
Fri-Sat	3/18-3/19	11pm-7am	Rebecca Stone
Sat	19-Mar	7am - 3pm	Clyde Ragland
Sat	19-Mar	3pm-11pm	Tony Bowers
Sat-Sun	3/19-3/20	11pm - 7am	Rebecca Stone
Sun	20-Mar	7am - 3pm	Clyde Ragland
Sun	20-Mar	3pm-11pm	Tony Bowers
Sun-Mon	3/20-3/21	11pm - 7am	Rebecca Stone
Mon	21-Mar	7am - 3pm	Tony McMurtray
Mon	21-Mar	3pm-11pm	Tony Bowers
Mon-Tues	3/21-3/22	11pm - 7am	Rebecca Stone
Tues	22-Mar	7am - 3pm	Tony McMurtray
Tues	22-Mar	3pm-11pm	Tony Bowers
Tues-Wed	3/22-3/23	11pm - 7am	Rebecca Stone
Wed	23-Mar	7am - 3pm	Tony McMurtray
Wed	23-Mar	3pm-11pm	Clyde Ragland
Wed-Thur	3/23-3/24	11pm - 7am	Rebecca Stone
Thur	24-Mar	7am - 3pm	Tony McMurtray
Thur	24-Mar	3pm-11pm	Clyde Ragland
Thur-Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	Tony McMurtray
Fri	25-Mar	3pm-11pm	Clyde Ragland
Fri-Sat	3/25-3/26	11pm-7am	
<b>EST Chronology Officer</b>			
Fri-Sat	3/18-3/19	11pm-7am	Dennis Gordon
Sat	19-Mar	7am - 3pm	Carolyn Nguyen
Sat	19-Mar	3pm-11pm	Rebecca Karas
Sat-Sun	3/19-3/20	11pm - 7am	Cynthia Dorsey
Sun	20-Mar	7am - 3pm	James Vaughn
Sun	20-Mar	3pm-11pm	Rebecca Karas
Sun-Mon	3/20-3/21	11pm - 7am	Mark Resner
Mon	21-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Mon	21-Mar	3pm-11pm	Rebecca Karas
Mon-Tues	3/21-3/22	11pm - 7am	Thomas Scarbrough
Tues	22-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Tues	22-Mar	3pm-11pm	Rebecca Karas



JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Tues-Wed	3/22-3/23	11pm - 7am	Thomas Scarbrough
Wed	23-Mar	7am - 3pm	James Vaughn
Wed	23-Mar	3pm-11pm	Rebecca Karas
Wed-Thur	3/23-3/24	11pm - 7am	
Thur	24-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Thur	24-Mar	3pm-11pm	Rebecca Karas
Thur-Fri	3/24-3/25	11pm - 7am	Thomas Scarbrough
Fri	25-Mar	7am - 3pm	Hector Rodriguez-Luccioni
Fri	25-Mar	3pm-11pm	Rebecca Karas
Fri-Sat	3/25-3/26	11pm-7am	Thomas Scarbrough
<b>EST Response Ops Mgr</b>			
Fri-Sat	3/18-3/19	11pm-7am	Omar Khan
Sat	19-Mar	7am - 3pm	Cris Brown
Sat	19-Mar	3pm-11pm	Bob Stransky
Sat-Sun	3/19-3/20	11pm - 7am	Jean Trefethan
Sun	20-Mar	7am - 3pm	Karen Jackson
Sun	20-Mar	3pm-11pm	Roberto Figueroa
Sun-Mon	3/20-3/21	11pm - 7am	Jean Trefethan
Mon	21-Mar	7am - 3pm	Bob Stransky
Mon	21-Mar	3pm-11pm	Omar Khan
Mon-Tues	3/21-3/22	11pm - 7am	Cris Brown
Tues	22-Mar	7am - 3pm	Bob Stransky
Tues	22-Mar	3pm-11pm	Karen Jackson
Tues-Wed	3/22-3/23	11pm - 7am	Roberto Figueroa
Wed	23-Mar	7am - 3pm	Bob Stransky
Wed	23-Mar	3pm-11pm	Jean Trefethan
Wed-Thur	3/23-3/24	11pm - 7am	Cris Brown
Thur	24-Mar	7am - 3pm	Karen Jackson
Thur	24-Mar	3pm-11pm	Omar Khan
Thur-Fri	3/24-3/25	11pm - 7am	Roberto Figueroa
Fri	25-Mar	7am - 3pm	Jean Trefethan
Fri	25-Mar	3pm-11pm	Cris Brown
Fri-Sat	3/25-3/26	11pm-7am	Roberto Figueroa
<b>EST Admin. Assistant</b>			
Fri-Sat	3/18-3/19	11pm-7am	Tabitha Howard
Sat	19-Mar	7am - 3pm	Karen Meyer
Sat	19-Mar	3pm-11pm	Amy Salus
Sat-Sun	3/19-3/20	11pm - 7am	Chris Lamb
Sun	20-Mar	7am - 3pm	Karen Meyer
Sun	20-Mar	3pm-11pm	Linda Williamson
Sun-Mon	3/20-3/21	11pm - 7am	Chris Lamb
Mon	21-Mar	7am - 3pm	Karen Meyer
Mon	21-Mar	3pm-11pm	Mary Glenn Crutchley
Mon-Tues	3/21-3/22	11pm - 7am	Andrea Wimbush
Tues	22-Mar	7am - 3pm	Amy Salus
Tues	22-Mar	3pm-11pm	Mary Glenn Crutchley
Tues-Wed	3/22-3/23	11pm - 7am	Michelle Manahan
Wed	23-Mar	7am - 3pm	Karen Meyer
Wed	23-Mar	3pm-11pm	Mary Glenn Crutchley
Wed-Thur	3/23-3/24	11pm - 7am	Andrea Wimbush

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Thur	24-Mar	7am - 3pm	Amy Salus
Thur	24-Mar	3pm-11pm	Mary Glenn Crutchley
Thur-Fri	3/24-3/25	11pm - 7am	Tabitha Howard
Fri	25-Mar	7am - 3pm	Karen Meyer
Fri	25-Mar	3pm-11pm	Mary Glenn Crutchley
Fri-Sat	3/25-3/26	11pm-7am	Michelle Manahan
<b>Liason Team</b>			
<b>LT Director</b>			
Fri-Sat	3/18-3/19	11pm-7am	Tom Blount
Sat	19-Mar	7am - 3pm	Tom Bergman
Sat	19-Mar	3pm-11pm	Bob Webber
Sat-Sun	3/19-3/20	11pm - 7am	John Adams
Sun	20-Mar	7am - 3pm	Tom Bergman
Sun	20-Mar	3pm-11pm	Bob Webber
Sun-Mon	3/20-3/21	11pm - 7am	John Adams
Mon	21-Mar	7am - 3pm	Tom Bergman
Mon	21-Mar	3pm-11pm	Bob Webber
Mon-Tues	3/21-3/22	11pm - 7am	John Adams
Tues	22-Mar	7am - 3pm	Tom Bergman
Tues	22-Mar	3pm-11pm	Bob Webber
Tues-Wed	3/22-3/23	11pm - 7am	John Adams
Wed	23-Mar	7am - 3pm	Michael Tschiltz
Wed	23-Mar	3pm-11pm	Joe Giitter
Wed-Thur	3/23-3/24	11pm - 7am	Tim McGinty
Thur	24-Mar	7am - 3pm	Michael Tschiltz
Thur	24-Mar	3pm-11pm	Joe Giitter
Thur-Fri	3/24-3/25	11pm - 7am	Tim McGinty
Fri	25-Mar	7am - 3pm	Michael Tschiltz
Fri	25-Mar	3pm-11pm	Joe Giitter
Fri-Sat	3/25-3/26	11pm-7am	Tim McGinty
<b>LT Coordinator</b>			
Fri-Sat	3/18-3/19	11pm-7am	Janelle Jessie
Sat	19-Mar	7am - 3pm	Jeff Temple
Sat	19-Mar	3pm-11pm	Rani Franovich
Sat-Sun	3/19-3/20	11pm - 7am	Janelle Jessie
Sun	20-Mar	7am - 3pm	Jeff Temple
Sun	20-Mar	3pm-11pm	Nathan Sanfilippo
Sun-Mon	3/20-3/21	11pm - 7am	Milt Murray
Mon	21-Mar	7am - 3pm	Jeff Temple
Mon	21-Mar	3pm-11pm	Nathan Sanfilippo
Mon-Tues	3/21-3/22	11pm - 7am	Milt Murray
Tues	22-Mar	7am - 3pm	Rani Franovich
Tues	22-Mar	3pm-11pm	Nathan Sanfilippo
Tues-Wed	3/22-3/23	11pm - 7am	Milt Murray
Wed	23-Mar	7am - 3pm	Rani Franovich
Wed	23-Mar	3pm-11pm	Jeff Temple
Wed-Thur	3/23-3/24	11pm - 7am	Milt Murray
Thur	24-Mar	7am - 3pm	Rani Franovich
Thur	24-Mar	3pm-11pm	Jeff Temple
Thur-Fri	3/24-3/25	11pm - 7am	Milt Murray

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Fri	25-Mar	7am - 3pm	Janelle Jessie
Fri	25-Mar	3pm-11pm	Rani Franovich
Fri-Sat	3/25-3/26	11pm-7am	Milt Murray
<b>LT Federal Liason (2)</b>			
Fri-Sat	3/18-3/19	11pm-7am	Scott Sloan
Sat	19-Mar	7am - 3pm	Russ Chazell
Sat	19-Mar	3pm-11pm	Jeff Lynch
Sat-Sun	3/19-3/20	11pm - 7am	Scott Sloan
Sun	20-Mar	7am - 3pm	Ned Wright
Sun	20-Mar	3pm-11pm	Jerry Hale
Sun-Mon	3/20-3/21	11pm - 7am	Lisa Wright
Mon	21-Mar	7am - 3pm	Beth Reed/Ted Smith
Mon	21-Mar	3pm-11pm	Ned Wright
Mon-Tues	3/21-3/22	11pm - 7am	Lisa Wright
Tues	22-Mar	7am - 3pm	Beth Reed/Ted Smith
Tues	22-Mar	3pm-11pm	Ned Wright
Tues-Wed	3/22-3/23	11pm - 7am	Lisa Wright
Wed	23-Mar	7am - 3pm	Jerry Hale/
Wed	23-Mar	3pm-11pm	Ted Smith
Wed-Thur	3/23-3/24	11pm - 7am	Lisa Wright
Thur	24-Mar	7am - 3pm	/Ted Smith
Thur	24-Mar	3pm-11pm	Jerry Hale
Thur-Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	/Ted Smith
Fri	25-Mar	3pm-11pm	Jerry Hale
Fri-Sat	3/25-3/26	11pm-7am	
<b>LT Congressional Liason (2)</b>			
Sat	19-Mar	7am - 2pm	Spiros Droggitis
	19-Mar	2pm-9pm	Tim Riley
Sun	20-Mar	7am - 2pm	Rebecca Schmidt
	20-Mar	2pm-9pm	Reanne Shane
Mon	21-Mar	7am - 2pm	
	21-Mar	2pm-9pm	
Tues	22-Mar	7am - 2pm	
	22-Mar	2pm-9pm	
Wed	23-Mar	7am - 2pm	
	23-Mar	2pm-9pm	
Thur	24-Mar	7am - 2pm	
	24-Mar	2pm-9pm	
Fri	25-Mar	7am - 2pm	
	25-Mar	2pm-9pm	
<b>LT International Liason (2)</b>			
Fri-Sat	3/18-3/19	11pm-7am	Elizabeth Smirolodo/Danielle Emche
Sat	19-Mar	7am - 3pm	Lance English/Steve Bloom
Sat	19-Mar	3pm-11pm	Jenny Tobin/Jill Shephard
Sat-Sun	3/19-3/20	11pm - 7am	Elizabeth Smirolodo/Danielle Emche
Sun	20-Mar	7am - 3pm	Karen/Steve Baker
Sun	20-Mar	3pm-11pm	Eric Stahl/Nancy
Sun-Mon	3/20-3/21	11pm - 7am	Elizabeth Smirolodo/Jenny Tobin

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Mon	21-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3
Mon	21-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Mon-Tues	3/21-3/22	11pm - 7am	Eric Stahl/Mugeh
Tues	22-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3
Tues	22-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Tues-Wed	3/22-3/23	11pm - 7am	Eric Stahl/Mugeh
Wed	23-Mar	7am - 3pm	Jen Schwartzman/Charlotte Abrams/Nancy (12-3
Wed	23-Mar	3pm-11pm	Danielle Emche/Lauren Mayros
Wed-Thur	3/23-3/24	11pm - 7am	Eric Stahl/Mugeh
Thur	24-Mar	7am - 3pm	Steve Bloom/Lance English
Thur	24-Mar	3pm-11pm	Janice/Jenny Tobin
Thur-Fri	3/24-3/25	11pm - 7am	Andrea/Elizabeth Smirollo
Fri	25-Mar	7am - 3pm	Steve Bloom/Lance English
Fri	25-Mar	3pm-11pm	Janice/Jenny Tobin
Fri-Sat	3/25-3/26	11pm-7am	Andrea/Elizabeth Smirollo

**Protective Measures Team**

<b>PMTR Director</b>			
Fri-Sat	3/18-3/19	11pm-7am	Kathy Gibson
Sat	19-Mar	7am - 3pm	John Lubinski
Sat	19-Mar	3pm-11pm	Don Cool
Sat-Sun	3/19-3/20	11pm - 7am	Kathy Gibson
Sun	20-Mar	7am - 3pm	John Lubinski
Sun	20-Mar	3pm-11pm	Don Cool
Sun-Mon	3/20-3/21	11pm - 7am	Kathy Gibson
Mon	21-Mar	7am - 3pm	John Lubinski
Mon	21-Mar	3pm-11pm	Don Cool
Mon-Tues	3/21-3/22	11pm - 7am	John Tappert
Tues	22-Mar	7am - 3pm	John Lubinski
Tues	22-Mar	3pm-11pm	Don Cool
Tues-Wed	3/22-3/23	11pm - 7am	John Tappert
Wed	23-Mar	7am - 3pm	Terry Reis
Wed	23-Mar	3pm-11pm	Cindy Jones
Wed-Thur	3/23-3/24	11pm - 7am	Randy Sullivan
Thur	24-Mar	7am - 3pm	Terry Reis
Thur	24-Mar	5pm-11pm	Cindy Jones
Thur-Fri	3/24-3/25	11pm - 7am	Randy Sullivan
Fri	25-Mar	7am - 3pm	Terry Reis
Fri	25-Mar	5pm-11pm	Cindy Jones
Fri-Sat	3/25-3/26	11pm-7am	Randy Sullivan

<b>PMTR Coordinator</b>			
Fri-Sat	3/18-3/19	11pm-7am	Mike Norris
Sat	19-Mar	7am - 3pm	Duane Hardesty
Sat	19-Mar	3pm-11pm	Jay Patel
Sat-Sun	3/19-3/20	11pm - 7am	Lou Brandon
Sun	20-Mar	7am - 3pm	Nima Ashkeboussi
Sun	20-Mar	3pm-11pm	Jay Patel
Sun-Mon	3/20-3/21	11pm - 7am	Lou Brandon
Mon	21-Mar	7am - 3pm	John Wray (volunteer from OE)
Mon	21-Mar	3pm-11pm	Jay Patel
Mon-Tues	3/21-3/22	11pm - 7am	Lou Brandon

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Tues	22-Mar	7am - 3pm	John Wray (volunteer from OE)
Tues	22-Mar	3pm-11pm	Nima Ashkeboussi
Tues-Wed	3/22-3/23	11pm - 7am	Mike Norris
Wed	23-Mar	7am - 3pm	Prosanta Chowdhury (8 am)
Wed	23-Mar	3pm-11pm	Nima Ashkeboussi
Wed-Thur	3/23-3/24	11pm - 7am	Mike Norris
Thur	24-Mar	7am - 3pm	Prosanta Chowdhury (8 am)
Thur	24-Mar	3pm-11pm	Nima Ashkeboussi
Thur-Fri	3/24-3/25	11pm - 7am	Mike Norris
Fri	25-Mar	7am - 3pm	Duane Hardesty
Fri	25-Mar	3pm-11pm	Jay Patel
Fri-Sat	3/25-3/26	11pm-7am	

**PMTR Prot Actions Asst Dir**

Fri-Sat	3/18-3/19	11pm-7am	Greg Casto
Sat	19-Mar	7am - 3pm	Kathryn Brock
Sat	19-Mar	3pm-11pm	Kevin Williams
Sat-Sun	3/19-3/20	11pm - 7am	Greg Casto
Sun	20-Mar	7am - 3pm	Kathryn Brock
Sun	20-Mar	3pm-11pm	Tim Harris
Sun-Mon	3/20-3/21	11pm - 7am	Greg Casto
Mon	21-Mar	7am - 3pm	Kathryn Brock
Mon	21-Mar	3pm-11pm	
Mon-Tues	3/21-3/22	11pm - 7am	Jessica Kratchman
Tues	22-Mar	7am - 3pm	Kathryn Brock
Tues	22-Mar	3pm-11pm	Tim Harris
Tues-Wed	3/22-3/23	11pm - 7am	Jessica Kratchman
Wed	23-Mar	7am - 3pm	Sandra Wastler
Wed	23-Mar	3pm-11pm	
Wed-Thur	3/23-3/24	11pm - 7am	Jessica Kratchman
Thur	24-Mar	7am - 3pm	Sandra Wastler
Thur	24-Mar	3pm-11pm	
Thur-Fri	3/24-3/25	11pm - 7am	Jessica Kratchman
Fri	25-Mar	7am - 3pm	Kathryn Brock
Fri	25-Mar	3pm-11pm	
Fri-Sat	3/25-3/26	11pm-7am	Greg Casto

**PMTR RAAD**

Fri-Sat	3/18-3/19	11pm-7am	Randy Sullivan
Sat	19-Mar	7am - 3pm	Bruce Watson
Sat	19-Mar	3pm-11pm	Michelle Hart
Sat-Sun	3/19-3/20	11pm - 7am	Patricia Milligan
Sun	20-Mar	7am - 3pm	Eric Schrader
Sun	20-Mar	3pm-11pm	Steve LaVie
Sun-Mon	3/20-3/21	11pm - 7am	Randy Sullivan
Mon	21-Mar	7am - 3pm	Bruce Watson
Mon	21-Mar	3pm-11pm	Michelle Hart/Steve Lavie
Mon-Tues	3/21-3/22	11pm - 7am	
Tues	22-Mar	7am - 3pm	Bruce Watson
Tues	22-Mar	3pm-11pm	Steve LaVie
Tues-Wed	3/22-3/23	11pm - 7am	
Wed	23-Mar	7am - 3pm	Bruce Watson



JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Wed	23-Mar	3pm-11pm	Michelle Hart/Steve Lavie
Wed-Thur	3/23-3/24	11pm - 7am	Patricia Milligan
Thur	24-Mar	7am - 3pm	Bruce Watson
Thur	24-Mar	3pm-11pm	Steve LaVie
Thur-Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	
Fri	25-Mar	3pm-11pm	Michelle Hart/Steve Lavie
Fri-Sat	3/25-3/26	11pm-7am	
<b>PMTR Dose Assessment (RASCAL)</b>			
Fri-Sat	3/18-3/19	11pm-7am	Duane Schmidt/Tony Huffert
Sat	19-Mar	7am - 3pm	Casper Sun
Sat	19-Mar	3pm-11pm	Margaret Cervera
Sat-Sun	3/19-3/20	11pm - 7am	Kimberly Gambone/John Parillo
Sun	20-Mar	7am - 3pm	Casper Sun
Sun	20-Mar	3pm-11pm	Margaret Cervera
Sun-Mon	3/20-3/21	11pm - 7am	Kimberly Gambone/John Parillo
Mon	21-Mar	7am - 3pm	Eric Schrader/Rich Clement
Mon	21-Mar	3pm-11pm	Margaret Cervera/Tony Huffert
Mon-Tues	3/21-3/22	11pm - 7am	John Parillo
Tues	22-Mar	7am - 3pm	Eric Schrader/Rich Clement
Tues	22-Mar	3pm-11pm	Gary Purdy/Casper Sun
Tues-Wed	3/22-3/23	11pm - 7am	Margaret Cervera/Tony Huffert
Wed	23-Mar	7am - 3pm	Eric Schrader/Rich Clement
Wed	23-Mar	3pm-11pm	Kimberly Gambone/Casper Sun
Wed-Thur	3/23-3/24	11pm - 7am	Tony Huffert/John Parillo
Thur	24-Mar	7am - 3pm	Eric Schrader/Rich Clement
Thur	24-Mar	3pm-11pm	Kimberly Gambone/Casper Sun
Thur-Fri	3/24-3/25	11pm - 7am	Tony Huffert/John Parillo
Fri	25-Mar	7am - 3pm	Eric Schrader/Rich Clement
Fri	25-Mar	3pm-11pm	Gary Purdy/Casper Sun
Fri-Sat	3/25-3/26	11pm-7am	John Parillo
<b>PMTR GIS Analyst</b>			
Fri-Sat	3/18-3/19	11pm-7am	Stephanie Devlin
Sat	19-Mar	7am - 3pm	Nebiyu Tirah
Sat	19-Mar	3pm-11pm	Yong Li
Sat-Sun	3/19-3/20	11pm - 7am	
Sun	20-Mar	7am - 3pm	Phil Brandt
Sun	20-Mar	3pm-11pm	Ken See
Sun-Mon	3/20-3/21	11pm - 7am	
Mon	21-Mar	7am - 3pm	Nebiyu Tirah
Mon	21-Mar	3pm-11pm	
Mon-Tues	3/21-3/22	11pm - 7am	
Tues	22-Mar	7am - 3pm	Yong Li
Tues	22-Mar	3pm-11pm	
Tues-Wed	3/22-3/23	11pm - 7am	
Wed	23-Mar	7am - 3pm	
Wed	23-Mar	3pm-11pm	
Wed-Thur	3/23-3/24	11pm - 7am	
Thur	24-Mar	7am - 3pm	Yong Li
Thur	24-Mar	3pm-11pm	

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Thur-Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	
Fri	25-Mar	3pm-11pm	
Fri-Sat	3/25-3/26	11pm-7am	
<b>PMTR Meteorologist</b>			
Fri-Sat	18-Mar	3pm-11pm	Mike Mazaika
Sat	3/18-3/19	11pm-7am	Dave Brown
Sat	19-Mar	7am - 3pm	Kevin Quinlan
Sat-Sun	19-Mar	3pm-11pm	Mike Mazaika
Sun	3/19-3/20	11pm - 7am	David Brown
Sun	20-Mar	7am - 3pm	Kevin Quinlan
Sun-Mon	20-Mar	3pm-11pm	Mike Mazaika
Mon	3/20-3/21	11pm - 7am	David Brown
Mon	21-Mar	7am - 3pm	Mike Mazaika
Mon-Tues	21-Mar	3pm-11pm	
Tues	3/21-3/22	11pm - 7am	
Tues	22-Mar	7am - 3pm	
Tues-Wed	22-Mar	3pm-11pm	
Wed	3/22-3/23	11pm - 7am	
Wed	23-Mar	7am - 3pm	
Wed-Thur	23-Mar	3pm-11pm	
Thur	3/23-3/24	11pm - 7am	
Thur	24-Mar	7am - 3pm	
Thur-Fri	24-Mar	3pm-11pm	
Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	
Fri-Sat	25-Mar	3pm-11pm	
	3/25-3/26	11pm-7am	
<b>Reactor Safety Team</b>			
<b>RST Director</b>			
Fri-Sat	3/18-3/19	11pm-7am	Jennifer Uhle
Sat	19-Mar	7am - 3pm	Laura Dudes
Sat	19-Mar	3pm-11pm	Dave Skeen
Sat-Sun	3/19-3/20	11pm - 7am	Jennifer Uhle
Sun	20-Mar	7am - 3pm	Laura Dudes
Sun	20-Mar	3pm-11pm	Dave Skeen
Sun-Mon	3/20-3/21	11pm - 7am	Jennifer Uhle
Mon	21-Mar	7am - 3pm	Fred Brown
Mon	21-Mar	3pm-11pm	Dave Skeen
Mon-Tues	3/21-3/22	11pm - 7am	Jennifer Uhle
Tues	22-Mar	7am - 3pm	Fred Brown
Tues	22-Mar	3pm-11pm	Dave Skeen
Tues-Wed	3/22-3/23	11pm - 7am	Brian Holian
Wed	23-Mar	7am - 3pm	Fred Brown
Wed	23-Mar	3pm-11pm	Bill Ruland
Wed-Thur	3/23-3/24	11pm - 7am	Brian Holian
Thur	24-Mar	7am - 3pm	Fred Brown
Thur	24-Mar	3pm-11pm	Bill Ruland
Thur-Fri	3/24-3/25	11pm - 7am	Brian Holian
Fri	25-Mar	7am - 3pm	Pat Hiland

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

Fri	25-Mar	3pm-11pm	Bill Ruland
Fri-Sat	3/25-3/26	11pm-7am	Brian Holian
Sat	26-Mar	0700 -1500	Jerry Dozier?
Sat	26-Mar	1500 - 2300	Hussein Esmail
Sat	3/26-27/2011	2300 - 0700	
<b>RST Coordinator</b>			
Fri-Sat	3/18-3/19	11pm-7am	Rollie Berry
Sat	19-Mar	7am - 3pm	Scott Sloan
Sat	19-Mar	3pm-11pm	Oleg Bukharin
Sat-Sun	3/19-3/20	11pm - 7am	Frank Collins
Sun	20-Mar	7am - 3pm	Peter Alter
Sun	20-Mar	3pm-11pm	Eric Thomas
Sun-Mon	3/20-3/21	11pm - 7am	Mike Morlang
Mon	21-Mar	7am - 3pm	Peter Alter
Mon	21-Mar	3pm-11pm	Greg Schoenebeck
Mon-Tues	3/21-3/22	11pm - 7am	Frank Collins
Tues	22-Mar	7am - 3pm	Rick Hasselberg
Tues	22-Mar	3pm-11pm	Mike Morlang
Tues-Wed	3/22-3/23	11pm - 7am	Oleg Bukharin
Wed	23-Mar	7am - 3pm	Eric Thomas*
Wed	23-Mar	3pm-11pm	Greg Schoenebeck
Wed-Thur	3/23-3/24	11pm - 7am	Frank Collins
Thur	24-Mar	7am - 3pm	Rick Hasselberg
Thur	24-Mar	3pm-11pm	Brett Rini
Thur-Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	Eric Thomas*
Fri	25-Mar	3pm-11pm	Brett Rini
Fri-Sat	3/25-3/26	11pm-7am	Frank Collins
<b>Severe Accident/PRA</b>			
Fri-Sat	3/18-3/19	11pm - 7am	Don Marksberry
Sat	19-Mar	7am - 3pm	Len Ward
Sat	19-Mar	3pm-11pm	Ed Fuller
Sat-Sun	3/19-3/20	11pm - 7am	Mike Salay
Sun	20-Mar	7am - 3pm	John Lane
Sun	20-Mar	3pm-11pm	
Sun-Mon	3/20-3/21	11pm - 7am	Don Dube
Mon	21-Mar	7am - 3pm	Jeff Circle
Mon	21-Mar	3pm-11pm	Hossein Esmaili
Mon-Tues	3/21-3/22	11pm - 7am	Jim Gilmer
Tues	22-Mar	7am - 3pm	Ed Fuller
Tues	22-Mar	3pm-11pm	Len Ward
Tues-Wed	3/22-3/23	11pm - 7am	
Wed	23-Mar	7am - 3pm	Jeff Circle
Wed	23-Mar	3pm-11pm	Jerry Dozier
Wed-Thur	3/23-3/24	11pm - 7am	Mike Salay
Thur	24-Mar	7am - 3pm	Jeff Circle
Thur	24-Mar	3pm-11pm	Steve Laur
Thur-Fri	3/24-3/25	11pm - 7am	

## JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE

MARCH 18-26

Fri	25-Mar	7am - 3pm	Jerry Dozier ?
Fri	25-Mar	3pm-11pm	Steve Laur
Fri-Sat	3/25-3/26	11pm-7am	
<b>BWR Expertise</b>			
Fri-Sat	3/18-3/19	11pm-7am	Mike Brown
Sat	19-Mar	7am - 3pm	Peter Alter
Sat	19-Mar	3pm-11pm	Chuck Norton
Sat-Sun	3/19-3/20	11pm - 7am	John Kauffman
Sun	20-Mar	7am - 3pm	Larry Vick
Sun	20-Mar	3pm-11pm	Chuck Norton
Sun-Mon	3/20-3/21	11pm - 7am	Mike Brown
Mon	21-Mar	7am - 3pm	Gerry Gulla (OE volunteer)
Mon	21-Mar	3pm-11pm	Chuck Norton
Mon-Tues	3/21-3/22	11pm - 7am	Mike Brown
Tues	22-Mar	7am - 3pm	
Tues	22-Mar	3pm-11pm	Chuck Norton
Tues-Wed	3/22-3/23	11pm - 7am	Mike Brown
Wed	23-Mar	7am - 3pm	Larry Vick
Wed	23-Mar	3pm-11pm	Chuck Norton
Wed-Thur	3/23-3/24	11pm - 7am	Eva Brown
Thur	24-Mar	7am - 3pm	
Thur	24-Mar	3pm-11pm	Chuck Norton
Thur-Fri	3/24-3/25	11pm - 7am	Eva Brown
Fri	25-Mar	7am - 3pm	
Fri	25-Mar	3pm-11pm	
Fri-Sat	3/25-3/26	11pm-7am	Eva Brown
<b>RST Comm/ERDS Operator</b>			
Fri-Sat	3/18-3/19	11pm-7am	Andy Kugler
Sat	19-Mar	7am - 3pm	Joseph Williams
Sat	19-Mar	3pm-11pm	John Thorp
Sat-Sun	3/19-3/20	11pm - 7am	Ujagav Bhachu
Sun	20-Mar	7am - 3pm	Denise McGovern
Sun	20-Mar	3pm-11pm	Donna Williams
Sun-Mon	3/20-3/21	11pm - 7am	Ujagav Bhachu
Mon	21-Mar	7am - 3pm	Joseph Williams
Mon	21-Mar	3pm-11pm	
Mon-Tues	3/21-3/22	11pm - 7am	
Tues	22-Mar	7am - 3pm	Steve Bloom
Tues	22-Mar	3pm-11pm	Jim Isom
Tues-Wed	3/22-3/23	11pm - 7am	
Wed	23-Mar	7am - 3pm	Joseph Williams
Wed	23-Mar	3pm-11pm	Ken Hart
Wed-Thur	3/23-3/24	11pm - 7am	
Thur	24-Mar	7am - 3pm	John Thorp
Thur	24-Mar	3pm-11pm	Ken Hart
Thur-Fri	3/24-3/25	11pm - 7am	
Fri	25-Mar	7am - 3pm	Donna Williams
Fri	25-Mar	3pm-11pm	Jim Isom
Fri-Sat	3/25-3/26	11pm-7am	

JAPAN EARTHQUAKE - ERO STAFFING SCHEDULE  
MARCH 18-26

RST Support (Seismology Q&A)			
Fri-Sat	3/18-3/19	11pm-7am	Off (On Call)
Sat	19-Mar	7am - 3pm	Off (On Call)
Sat	19-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/19-3/20	11pm - 7am	Off (On Call)
Sun	20-Mar	7am - 3pm	Off (On Call)
Sun	20-Mar	3pm-11pm	Off (On Call)
Sun-Mon	3/20-3/21	11pm - 7am	Off (On Call)
Mon	21-Mar	7am - 3pm	Off (On Call)
Mon	21-Mar	3pm-11pm	Off (On Call)
Mon-Tues	3/21-3/22	11pm - 7am	Off (On Call)
Tues	22-Mar	7am - 3pm	Off (On Call)
Tues	22-Mar	3pm-11pm	Off (On Call)
Tues-Wed	3/22-3/23	11pm - 7am	Off (On Call)
Wed	23-Mar	7am - 3pm	Off (On Call)
Wed	23-Mar	3pm-11pm	Off (On Call)
Wed-Thur	3/23-3/24	11pm - 7am	Off (On Call)
Thur	24-Mar	7am - 3pm	Off (On Call)
Thur	24-Mar	3pm-11pm	Off (On Call)
Thur-Fri	3/24-3/25	11pm - 7am	Off (On Call)
Fri	25-Mar	7am - 3pm	off (On Call)
Fri	25-Mar	3pm-11pm	Off (On Call)
Fri-Sat	3/25-3/26	11pm-7am	Off (On Call)



## White, Bernard

---

**From:** X.Zou@iaea.org  
**Sent:** Friday, March 18, 2011 5:02 AM  
**To:** White, Bernard  
**Subject:** Emailing: Progress by on-site workers.htm



Search [      ]

>>  
REGULATION AND SAFETY  
**Front Page**

- 
- ENERGY & ENVIRONMENT
    - NEW NUCLEAR
  - REGULATION & SAFETY
    - NUCLEAR POLICIES
      - CORPORATE
    - EXPLORATION & NUCLEAR FUEL
  - WASTE & RECYCLING
- 

- **Nuclear Event Reports**
- 

- **About WNN**
    - **Contact**
- 

*This information service  
is supported by*



- 
- **Subscribe to receive WNN's free emails**
- 

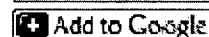
Â

## Progress by on-site workers

17 March 2011

FIRST PUBLISHED: 4.56pm  
UPDATE 1: 5.22pm Addition of image

Â Â



**The high levels of radiation braved by workers at the scene in Fukushima Daiichi appear to have reduced after the expansion of the workforce and announcements of infrastructure improvements to come.**

Â  
In recent days emergency managers were faced with an extremely complicated task to prioritise jobs across all four struggling reactor units in the main part of the site, while a skeleton operating crew maintained the status of units 5 and 6 about two hundred metres away.

Â  
There have been about 50 staff engaged in pumping seawater into the reactor cores and primary containment vessels of units 1, 2 and 3. From time to time these need to vent steam, which causes radiation to rise across the site and required the workers to move to a safer location.

Â  
Another 130 were also on site, according to reports, including soldiers from the Japan Self Defence Force.

Â  
Normally nuclear workers are allowed to receive a dose of 20 millisieverts per year, although in practice they often receive very much less. If that limit is exceeded in any year, the worker cannot undertake nuclear duties for the remainder.

Â



*A helicopter shot of Fukushima Daiichi 3 earlier today*

Â  
In emergency circumstances safety regulators allow workers to receive up to 100 millisieverts with the same conditions applying, that they must leave the site should that limit be reached. The 100 millisievert level is roughly the point at which health effects from radiation become more likely. Below this it is statistically difficult to connect radiation dose to cancer rates, but above this the relationship starts to become apparent.

Â  
Under a special allowance from the Nuclear and Industrial Safety Agency, workers at Fukushima were permitted doses of up to 250 millisieverts. Managers must be careful to make the best use of those experienced workers with the most detailed knowledge and experience of the plant.

Â  
The small workforce battled to spray water into the damaged buildings of units 3 and 4, working when and where they could to avoid exceeding those radiation dose limits. *World Nuclear News* understands that the army fire engine was able to "deliver 30 tonnes of water" towards or into unit 3's fuel pond, but this is not confirmed, nor is the expected drop in radiation levels expected to accompany it. However, Tokyo Electric Power Company has been able to significantly expand the workforce and a range of other activities are now taking place.

Â  
**External power, diesels coming**

Â  
The Ministry of Economy Trade and Industry said at 8.38pm that a cable was being laid to bring external power from transmission lines owned by Tohoku Electric Power Company. This was to be connected when radiation levels had died down after a planned venting operation at unit 2.

Â  
In addition, one of the emergency diesel units can now be operated and will be used to supply unit 5 and 6 alternately to inject water to their used fuel pools. Later, the power will be used to top up water in the reactor vessels.

Â

Casualties among power plant workers
--------------------------------------

- Two Tepco employees have minor injuries.
- Two contractors were injured when the quake struck and were taken to hospital, one suffering two broken legs.
- A Tepco worker was taken to hospital after collapsing and experiencing chest pains.
- A subcontract worker at an "important earthquake-proof building" was found unconscious and was taken to hospital.
- Two Tepco workers felt ill whilst working in the control rooms of Fukushima Daiichi units 1 and 2 and were taken to the medical centre at Fukushima Daiichi.
- Four workers were injured in the hydrogen explosion at Fukushima Daiichi 1. They were all taken to hospital.
- Eleven workers (four Tepco workers, three subcontract workers and four members of Self Defence Force) were hurt following a similar explosion at Fukushima Daiichi 3. They were transferred to the Fukushima Daiichi plant. One of the Tepco employees, complaining of pain in his side, was later transferred to hospital.
- The whereabouts of two Tepco workers, who had been in the turbine building of Fukushima Daiichi unit 4, is unknown.
- Only one casualty has been reported at the Fukushima Daiichi plant. A worker in the crane operating console of the exhaust stack was seriously injured when the earthquake struck. He subsequently died.

#### **Contamination cases**

- One Tepco worker working within the reactor building of Fukushima Daiichi unit 3 during "vent work" was taken to hospital after receiving radiation exposure exceeding 100 mSv, a level deemed acceptable in emergency situations by some national nuclear safety regulators.
- Nine Tepco employees and eight subcontractors suffered facial exposure to low levels of radiation. They did not require hospital treatment.
- Two policemen were decontaminated after being exposed to radiation.
- An unspecified number of firemen who were exposed to radiation are under investigation.

*Researched and written  
by World Nuclear News  
Â Â*

#### **RELATED LINKS**

- [Tokyo Electric Power Co. \(Tepco\)](#)
- [Nuclear and Industrial Safety Agency](#)
- [Ministry of Economy, Trade and Industry \(Meti\)](#)

#### **TOP STORIES**

- [Attempts to refill fuel ponds](#)
- [Billion-euro nuclear shutdown in Germany](#)
- [Problems for units 3 and 4](#)
- [Radiation decreasing, fuel ponds warming](#)
- [Loss of coolant at Fukushima Daiichi 2](#)

#### **DON'T MISS**

- Loss of coolant at Fukushima Daiichi 2
- Contamination checks on evacuated residents
- Efforts to manage Fukushima Daiichi 3
- Battle to stabilise earthquake reactors
- Rolling blackouts as Japanese efforts continue
- Radiation decreasing, fuel ponds warming
- Cold shutdowns at Fukushima Daiichi



**PrintSendFeedbackSubscribe FreeNews Feed**

This email message is intended only for the use of the named recipient. Information contained in this email message and its attachments may be privileged, confidential and protected from disclosure. If you are not the intended recipient, please do not read, copy, use or disclose this communication to others. Also please notify the sender by replying to this message and then delete it from your system.

**From:** Laufer, Richard *EDDO*  
**To:** Bovol, Rochelle; Svinicki, Kristine; Montes, David; Adler, James; Bates, Andrew; Batkin, Joshua; Bubar, Patrice; Bupp, Margaret; Chairman Temp; Clark, Lisa; Coggins, Angela; Davis, Roger; Dhir, Neha; Hart, Ken; Loyd, Susan; Monninger, John; Nieh, Ho; Pearson, Laura; Reddick, Darani; Rothschild, Trip; Joosten, Sandy; Sharkey, Jeffry; Shea, Pamela; Sosa, Belkys; Burns, Stephen; Vietti-Cook, Annette; Warren, Roberta; Zorn, Jason; Baggett, Steven; Bradford, Anna; Castleman, Patrick; Kock, Andrea; Tadesse, Rebecca; Thoma, John; Franovich, Mike; Hipschman, Thomas; Batkin, Joshua; Marshall, Michael; Orders, William; Snodderly, Michael; Warnick, Greg; Lisann, Elizabeth  
**Cc:** Dudley, Richard; Ruland, William; Tregoning, Robert; Wittick, Brian; Andersen, James; Blake, Kathleen; Bozin, Sunny; Cianci, Sandra; Crawford, Carrie; Gibbs, Catina; Harves, Carolyn; Hasan, Nasreen; Jimenez, Patricia; KLS Temp; Landau, Mindy; Lepre, Janet; Lewis, Antoinette; Herr, Linda; Muesle, Mary; Pace, Patti; Pulley, Deborah; Savoy, Carmel; Speiser, Herald; Taylor, Renee; Temp, GEA; Temp, WCO; Temp, WDM; Wright, Darlene; Wittick, Susan; Sargent, Kimberly; Hayden, Elizabeth; Brenner, Eliot; Powell, Amy; Schmidt, Rebecca  
**Subject:** Materials for March 21st Commission Briefing on Japan Event  
**Date:** Friday, March 18, 2011 4:46:15 PM  
**Attachments:** [110321 NRC Response to Events in Japan Final Scheduling Note.docx](#)

---

Attached is the final scheduling note for the March 21st Commission briefing on the Japan Event. Staff slides should be emailed later today by Jim Andersen (OEDO).

Note that Commissioner Magwood goes first with questions.

Below are a few meeting logistics for your information:

- Bill Borchardt will be the only NRC staff member at the table.
- The seats in the well are reserved for DEDOs / Office Directors
- The stadium seating to the Commissioners left will be reserved for designated technical staff (who may be called upon during the meeting) and Commission Office EAs/TAs
- The stadium seating to the Commissioners right will be reserved for Press Corps/OPA
- Some of the stadium seating in front of the Commissioners will be reserved for VIPs (Congressional Office staffers).
- The remaining stadium seats in front of the Commissioners will be open to the public.

Once the available public seats are filled, members of the public will be directed around the back of the building where they will enter the TWFN Auditorium to view the Commission meeting.

Thanks,  
Rich

1198

Final: 3/18/11

### SCHEDULING NOTE

**Title:** BRIEFING ON NRC RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN (Public Meeting)

**Purpose:** To provide the Commission a status on the recent events in Japan, NRC's response, and planned actions.

**Scheduled:** March 21, 2011  
9:00 am

**Duration:** Approx. 2 hours

**Location:** Commissioners' Conference Room OWFN

**Participants:** Presentation

**NRC Staff Panel** 50 mins.\*

**Bill Borchardt**, Executive Director for Operations

Topics:

- Overview of Japanese event and U.S. response
- Discussion of general radiation health effects
- Discussion of current regulatory approaches for reactors
- Path forward; near term and longer term

**Commission Q & A** 50 mins.

**Discussion – Wrap-up** 5 mins.

Documents:

Background materials due to SECY: Distributed 3/18/11.

Slides due to SECY: will be emailed when available.



**From:**  
**To:**

OST01 HOC

*instr day*  
Abrams, Charlotte; Adams, John; Afshar-Tous, Mugeh; Alemu, Bezakulu; Alter, Peter; Anderson, James; Ashkeboussi, Nima; Baker, Stephen; Bergman, Thomas; Berry, Rollie; Bloom, Steven; Blount, Tom; Boger, Bruce; Bower, Anthony; Brandon, Lou; Brandt, Philip; Brock, Kathryn; Brown, Cris; Brown, David; Brown, Eva; Brown, Frederick; Bukharin, Oleg; Camper, Larry; Carpenter, Cynthia; Case, Michael; Casto, Greg; Cervera, Margaret; Chazell, Russell; Chen, Yen-Ju; Chokshi, Nilesh; Chowdhury, Prosanta; Circle, Jeff; Clement, Richard; Clinton, Rebecca; Collins, Frank; Cool, Donald; Costa, Arlon; Crutchley, Mary Glenn; Cruz, Zahira; Dacus, Eugene; DeCicco, Joseph; Decker, David; Dembek, Stephen; Devlin, Stephanie; Doane, Margaret; Dorman, Dan; Dozier, Jerry; Droggitis, Spiros; Dudek, Michael; Dudes, Laura; Emche, Danielle; English, Lance; Erlanger, Craig; Esmaili, Hossein; Figueroa, Roberto; Fiske, Jonathan; Franovich, Rani; Fuller, Edward; Galletta, Thomas; Gambone, Kimberly; Giitter, Joseph; Gordon, Dennis; Gott, William; Grant, Jeffery; Grobe, Jack; Hale, Jerry; Hardesty, Duane; Hart, Ken; Hart, Michelle; Hasselberg, Rick; Henderson, Karen; Hiland, Patrick; Holahan, Patricia; Holahan, Vincent; Holian, Brian; Huyck, Doug; Howard, Tabitha; Huffert, Anthony; Hurd, Sapna; Isom, James; Jackson, Karen; Jessie, Janelle; Johnson, Michael; Jolicoeur, John; Jones, Andrea; Jones, Cynthia; Kahler, Carolyn; Kammerer, Annie; Karas, Rebecca; Khan, Omar; Kowalczyk, Jeffrey; Kozal, Jason; Kratchman, Jessica; Kugler, Andrew; Lamb, Christopher; Larson, Emily; LaVie, Steve; Lewis, Robert; Li, Yong; Lombard, Mark; Lubinski, John; Lynch, Jeffery; Mamish, Nader; Manahan, Michelle; Marksberry, Don; Marshall, Jane; Mayros, Lauren; Mazaika, Michael; McConnell, Keith; McCoppin, Michael; McDermott, Brian; McGinty, Tim; McMurtray, Anthony; Merritt, Christina; Meyer, Karen; Miller, Charles; Miller, Chris; Milligan, Patricia; Mohseni, Aby; Moore, Scott; Morlang, Gary; Morris, Scott; Mroz (Sahm), Sara; Munson, Clifford; Murray, Charles; Nerret, Amanda; Norris, Michael; Norton, Charles; Ordaz, Vonna; Padovan, Mark; Patel, Jay; Parillo, John; Pope, Tia; Purdy, Gary; Quinlan, Kevin; Ragland, Robert; Ralph, Melissa; Reed, Elizabeth; Reed, Wendy; Reis, Terrence; Riley (OCA), Timothy; Rini, Brett; Rodriguez-Luccioni, Hector; Rosenberg, Stacey; Ross-Lee, MaryJane; Roundtree, Amy; Ruland, William; Salay, Michael; Salus, Amy; Sanfilippo, Nathan; Scarbrough, Thomas; Schaperow, Jason; Schmidt, Duane; Schoenebeck, Greg; Schrader, Eric; Schwartzman, Jennifer; Seber, Dogan; Shane, Raeann; Shea, James; Shepherd, Jill; Sheron, Brian; Skeen, David; Sloan, Scott; Smirolodo, Elizabeth; Smith, Theodore; Stahl, Eric; Stang, Annette; Steger (Tucci), Christine; Stieve, Alice; Stone, Rebecca; Stransky, Robert; Sturz, Fritz; Sullivan, Randy; Sun, Casper; Tappert, John; Temple, Jeffrey; Thaggard, Mark; Thomas, Eric; Thorp, John; Tobin, Jennifer; Trefethen, Jean; Tschiltz, Michael; Turtill, Richard; Uhle, Jennifer; Valencia, Sandra; Vaughn, James; Vick, Lawrence; Wastler, Sandra; Watson, Bruce; Weber, Michael; Webber, Robert; White, Bernard; Wiggins, Jim; Williams, Donna; Williams, Joseph; Williamson, Linda; Willis, Dori; Wimbush, Andrea; Wittick, Brian; Wray, John; Wright, Lisa (Gibney); Wright, Ned; Wunder, George; Young, Francis; Zimmerman, Roy

**Cc:**

OST02 HOC; OST01 HOC

**Subject:**

Work Schedule and Pay Guidance for Responders to Japan Events

**Date:**

Friday, March 18, 2011 5:07:01 AM

**Attachments:**

Work Schedule and Premium Pay Guidance for Japan Response 3.docx

**From:** Davidson, Lawrence

**Sent:** Thursday, March 17, 2011 5:14 PM

**To:** OST02 HOC; McMurtray, Anthony

**Cc:** Evans, Michele; Johns, Nancy; Scott, Tracy; Tallarico, Alison

**Subject:** FW:

Please distribute to everyone who serves in and supports the Ops Center in response to the events in Japan...

**From:** Davidson, Lawrence

**Sent:** Thursday, March 17, 2011 2:06 PM

**To:** Abraham, Susan; Abrams, Charlotte; Ader, Charles; Akstulewicz, Frank; Albert, Ronald; Allwein, Russell; Alston, Timothy; Andersen, James; Anderson, Joseph; Armentrout, Deborah; Ash, Darren; Ash, Melissa; Astwood, Heather; Auluck, Rajender; Austin, Joseph; Ayres, David; Bahadur, Sher; Bailey, Marissa; Bailey, Stewart; Baker, Pamela; Banas, Paul; Barss, Dan; Bartlett, Bruce; Bartley, Jonathan; Bartley, Malion; Batkin, Joshua; Baum, Robin; Bayliff, Shirley; Beardsley, James; Beasley, Benjamin; Bell, Hubert; Bell, Marvin; Bellamy, Ronald; Bellinger, Alesha; Benjamin, Jamie; Benner, Eric; Benney, Brian; Bergman, Thomas; Biggins, James; Bladey, Cindy; Blamey, Alan; Bloom, Steven; Bloomer, Tamara; Blount, Tom; Boger, Bruce; Boland, Anne; Bolduc, Angela; Bonser, Brian; Borchardt, Bill; Borden, William; Bouling, Ramona; Bower, Fred; Bower, Phyllis; Boyce, Tom (RES); Boyce, Thomas (OIS); Brady, Joseph; Brenner, Eliot; Brezovec, Michael; Broaddus, Doug; Brooks, Kenneth; Brown, Frederick; Brown, Tony; Brown, Milton; Brown, Rohn; Bubar, Patrice; Buchholz, Jeri; Buckley, Michael; Bumpass, Sheila; Burns, Stephen; Burritt, Arthur; Burton, Stephen; Burton, William; Bush-Goddard, Stephanie; Cain, Chuck; Caldwell, Robert; Calle, Joselito; Cameron, Jamnes; Campbell, Andy; Campbell,

V/99

Larry; Campbell, Stephen; Campbell, Vivian; Camper, Larry; Caniano, Roy; Cardenas, Daniel; Carlson, Robert; Carpenter, Cynthia; Case, Michael; Casto, Chuck; Casto, Greg; Cataldo, Paul; Catts, Michelle; Champion, Bryan; Chang, Helen; Chang, Lydia; Cheok, Michael; Chernoff, Harold; Chernoff, Margaret; Chokshi, Nilesh; Christensen, Harold; Clark, Jeff; Clay, Earnestine; Clayton, Brent; Clifford, James; Cobey, Eugene; Cochrum, Steven; Coe, Doug; Cohen, Miriam; Cohen, Ronald; Cohen, Stephen; Colaccino, Joseph; Coleman, Judy; Collins, Daniel; Collins, Elmo; Conte, Richard; Cook, Christopher; Corbett, James; Cordes, John; Correia, Richard; Costello, Ralph; Coyne, Kevin; Croteau, Rick; Crowe, Eddy; Cruz, Jeffrey; Csontos, Aladar; Cubbage, Amy; Cubellis, Louis; Cullison, David; Curtis, David; Daley, Robert; Daly, Jill; Dambly, Jan; Daniel, Susan; Danna, James; Dapas, Marc; Davis, Henry; Davis, Jack; Davis, Marlene; Dean, Michael; Dean, Bill; Dehn, Janine; Delligatti, Mark; Dembek, Stephen; Demoss, Gary; Dennig, Robert; Dentel, Glenn; Desai, Binoy; Dias, Antonio; Diaz-Toro, Diana; Dickson, Billy; Dingbaum, Stephen; DiPaolo, Eugene; Dixon, John; Dixon-Herrity, Jennifer; Doane, Margaret; Dodmead, James; Doerflein, Lawrence; Donaldson, Leslie; Donnell, Tremaine; Donoghue, Joseph; Doornbos, Roger; Dorman, Dan; Dorsey, Jeryll; Dosch, William; Dreisbach, Jason; Droggitis, Spiros; Dudes, Laura; Dumbacher, David; Duncan, Eric; Dwyer, James; Dyer, Jim; Eads, Johnny; Easson, Pamela; Egan, Dennis; Egli, Richard; Einberg, Christian; Elkins, Scott; Ellegood, John; Elliott, Robert; Ellsbury, Richard; Erlanger, Craig; Ernstes, Michael; Brown, Cris; Evans, Carolyn; 'Michele.ca@nrc.gov'; Farnholtz, Thomas; Felts, Russell; Fenton, Darlene; Ferdas, Marc; Ferrell, Kimberly; Ficks, Ben; Fields, Leslie; Finney, Patrick; Fitch, Karen; Flanders, Scott; Flynn, Sean; Foster, Jack; Franke, Mark; Franovich, Rani; Fredericks, Carl; Freeman, Scott; Fretz, Robert; Frumkin, Daniel; Frye, Timothy; Fuller, Michael; Gaddy, Vincent; Gallo, Jenny; Galloway, Melanie; Gartman, Michael; Gavrilas, Mirela; Giantelli, Adelaide; Gibson, Kathy; Giessner, John; Giitter, Joseph; Givvines, Mary; Gody, Tony; Golder, Jennifer; Golshan, KG; Gorham, Tajuan; Gott, William; Graham, Thorne; Grancorvitz, Teresa; Grant, Jeffery; Graser, Dan; Gray, Mel; Greene, Kathryn; Grice, Thomas; Griffin, Steven; Grobe, Jack; Hawkins, Kimberly; Gusack, Barbara; Guthrie, Eugene; Guttmann, Jack; Haag, Robert; Habighorst, Peter; Hackett, Edwin; Haeg, Lucas; Haire, Mark; Hall, Donald; Hall, Patricia; Hamzehee, Hossein; Haney, Catherine; Hansell, Samuel; Harris, Tim; Harrison, Donnie; Hatchett, Gregory; Hawken, Roy; Hay, Michael; Hayden, Elizabeth; Hays, Myra; Heck, James; Heck, Jared; Helton, Shana; Henderson, Pamela; Hickey, James; Hiland, Patrick; Hills, David; Hilton, Nick; Hiltz, Thomas; Hirsch, Patricia; Hoeg, Tim; Hogan, Rosemary; Holahan, Gary; Holahan, Patricia; Holian, Brian; Holland, Crystal; Holody, Daniel; Holonich, Joseph; Holt, BJ; Hopper, George; Howard, Patrick; Howe, Allen; Howell, Art; Howell, Linda; Hoxie, Chris; Hsia, Anthony; Hsu, Caroline; Hsueh, Kevin; Huber, Deborah; Hudson, Jody; Humerick, David; Hunegs, Gordon; Hunter, James; Huth, Virginia; Hutto, Andy; Huyck, Doug; Imboden, Andy; Itzkowitz, Marvin; Jackson, Deborah; Jackson, Donald; Jackson, Terry; James, Lois; Jankovich, John; Janney, Margie; Jarvis, Rodney; Jenkins, Ronaldo; Jernell, Eleni; Johns, Nancy; Johnson, Michael; Johnson, Clay; Johnson, Robert; Jolicoeur, John; Jones, Bradley; Jones, Evan; Jones, William; Josey, Jeffrey; Joustra, Judith; Julian, Emile; Jung, Ian; Junge, Michael; Kahler, Robert; Kaplan, Michele; Karas, Rebecca; Kellar, Ray; Kelley, Corenthis; Kemerer, Myron; Kemker, Brian; Kennedy, Kriss; Kennedy, Silas; Kerben, Valerie; Kern, David; Khanna, Meena; Kim, Yong; Kimble, Daniel; King, Donald; King, Michael; Kinneman, John; Kirkland, John; Kirkwood, Sara; Klein, Alex; Knutson, Ed; Kobetz, Timothy; Kokajko, Lawrence; Kolaczyk, Kenneth; Konzman, Carl; Koshy, Thomas; Kowal, Mark; Kramer, John; Krohn, Paul; Krsek, Robert; Krupnick, David; Kulesa, Gloria; Kulp, Jeffrey; Kunowski, Michael; Lam, Donna; Lambert, Kenneth; Landau, Mindy; Langan, Scott; Lankford, Jeffrey; Lantz, Ryan; Lara, Julio; Larkin, Grant; Laura, Richard; Layton, Michael; Le, Hong; Lee, Bert; Lee, David; Lee, Richard; Lee, Samson; Lee, Samuel; Leeds, Eric; Lennartz, Jay; Lesser, Mark; Lew, David; Lewis, Robert; Lipa, Christine; Lombard, Mark; Long, Chris; Lopez, Joseph; Lorson, Raymond; Loudon, Patrick; Lubinski, John; Luehman, James; Lui, Christiana; Lukes, Robert; Lund, Louise; Lupold, Timothy; Lyons-Burke, Kathy; Ma, May; Madden, Patrick; Madison, Wil; Magruder, Stewart; Mamish, Nader; Markley, Michael; Marshall, Jane; Marshfield, Mark; Martin, Gillian; Masnik, Michael; Masse, Todd; Matheson, Mary; Mathew, Roy; Matthews, David; Mattingley, Joel; Maxin, Mark; Mayfield, Michael; McCann, Carrie; McConnell, Keith; McCoppin, Michael; McCoy, Gerald; McCrary, Cheryl; McCree, Victor; McDermott, Brian; McGhee, James; McGill, Clinton; McGinty, Tim; McGowan, Anna; McHale, John; McKelvey, Harold; McKenna, Eileen; McKenney, Christopher; McKirgan, John; McMillan, Joseph; McMurtray, Anthony; Mendiola, Anthony; Meyer, David; Michalak, Paul; Miller, Charles; Miller, Chris; Miller, Geoffrey; Miller, Marie; Miller, Mark; Miller, Michael; Miotla, Sherri; Mitchell, Matthew; Mitchell, Reggie; Mohseni, Aby; Monk, Robert; Monninger, John; Montgomery, Jack; Moore, Scott; Moore, Thomas; Moorman, James; Morris, Eddie; Morris, James; Morris, R. Michael; Morris, Scott; Morrissey, Thomas; Moulding, Patrick; Moy, Romena; Mrowca, Lynn; Muessle, Mary; Munday, Joel; Murphy, Jerome; Murphy, Martin; Musser, Randy; Narick, Marianne; Nazario, Tomy; Nease, Rebecca; Neff, Deborah; Nelson, Robert; Nichols, Russell; Nieh, Ho; Norato, Michael; Norris, Michael; Nute-Blackshear, Lora; OBrien, Kenneth; OBryan, Phil; O'Donohue, Kathleen;

Offutt, David; Ogle, Chuck; OKeefe, Neil; Okleson, Edward; Ordaz, Vonna; Orth, Steven; O'Sullivan, Kevin; Ott, William; Ousley, Elizabeth; Owens, Janice; Paradiso, Karen; Partlow, Benjamin; Pascarelli, Robert; Peck, Michael; Pederson, Cynthia; Pelke, Patricia; Pellet, John; Pelton, David; Peralta, Juan; Perry, Jamila; Perry, Neil; Persinko, Andrew; Peters, Sean; Peterson, Gordon; Peterson, Hironori; Pham, Bo; Phillips, Charles; Piccone, Josephine; Pool, Stephen; Poole, Brooke; Powell, Amy; Powell, Dawn; Powell, Raymond; Prescott, Peter; Pretzello, Andrew; Price, Georgette; Pruett, Troy; Pstrak, David; Pulliam, Timothy; Quay, Theodore; Quichocho, Jessie; Rabideau, Peter; Rahimi, Meraj; Raione, Richard; Rajnic, Cecilia; Ramirez, Frances; Rasmussen, Richard; Rasouli, Houman; Raspa, Rossana; Rayland, Andrew; Raymond, William; Reckley, William; Reddick, Darani; Reece, James; Regan, Christopher; Reis, Terrence; Remsburg, Kristy; Reynolds, Steven; Reynoso, John; Rheume, Cynthia; Ricci, John; Rich, Daniel; Rich, Thomas; Richards, Stuart; Ricketts, Paul; Riemer, Kenneth; Ring, Mark; Roach, Edward; Roach, Gregory; Roberts, Darrell; Rodgers, Felecia; Rogge, John; Rosenberg, Stacey; Ross, Thierry; Ross-Lee, MaryJane; Rothschild, Trip; Rough, Richard; Rowhani, Bahman; Royal, Judith; Rubenstone, James; Rubic, Mark; Ruiz, Robert; Ruland, William; Rule, David; Rutkowski, John; Rutledge, Steven; Rzepka, Robert; Sabisch, Andrew; Safford, Carrie; Salgado, Nancy; Salley, MarkHenry; Salter, Susan; Sanchez, Alba; Sanchez, Alfred; Sangimino, Donna-Marie; Santiago, Patricia; Santos, Cayetano; Sargent, Kimberly; Satorius, Mark; Schaaf, Robert; Schaeffer, James; Schmidt, Rebecca; Schneider, Max; Schnetzler, Bonnie; Schoenmann, Sandra; Schroeder, Daniel; Schum, Constance; Scott, Catherine; Scott, Michael; Sealing, Donna; Segala, John; Serepca, Beth; Seymour, Deborah; Shaeffer, Scott; Shaffer, Steve; Shannon, Mel; Shannon, Michael; Sharkey, Jeffry; Shay, Jason; Shear, Gary; Shehee, James; Sheron, Brian; Shields, James; Shoop, Undine; Shuaibi, Mohammed; Silva, Patricia; Simms, Sophonia; Skeen, David; Skokowski, Richard; Smith, Arthur; Smith, Brian; Smith, Galen; Smith, Rich; Smith, Tuwanda; Solorio, Dave; Sosa, Belkys; Sotiropoulos, Dina; Spencer, Mary; Spindler, David; Spitzberg, Blair; StAmour, Norman; Stablein, King; Stapleton, Bernard; Stetson, Kathleen; Stewart, Scott; Stewart, Sharon; Stoedter, Karla; Stone, AnnMarie; Suber, Gregory; Subosits, Stephen; Sullivan, Allen; Swain, Karol; Sydnor, Russell; Sykes, Marvin; Szyperski, Bill; Tailleart, Don; Talley, Sandra; Tappert, John; Tate, Travis; Taylor, Robert; Tenaglia, Mickey; Terao, David; Terry, Leslie; Thaggard, Mark; Thomas, Brian; Thomas, Christopher; Thorp, John; Tonacci, Mark; Tracy, Glenn; Tran, Tu; Trapp, James; Travick, Vanette; Trent, Glenn; Tschiltz, Michael; Turner, Joseph; Turtill, Richard; Uhle, Jennifer; Ulises, Anthony; Usilton, William; Valentin, Andrea; Vogel, Anton; Vias, Steven; Vietti-Cook, Annette; Virgilio, Martin; VonTill, Bill; Voytko, Victoria; Walker, Tracy; Walker, Wayne; Wall, Scott; Warnick, Greg; Wastler, Sandra; Waters, Michael; Watson, Bruce; Weaver, Doug; Webber, Robert; Weber, Michael; Weerakkody, Sunil; Welling, Blake; Werkheiser, David; Werner, Greg; Wert, Leonard; West, Garmon; West, Steven; Westreich, Barry; Whetstine, Jack; White, Duncan; White, Darrell; Whited, Ryan; Whitten, Jack; Widdup, Joseph; Widmann, Malcolm; Wiggins, Jim; Williams, Barbara; Williams, Evelyn; Williams, Kevin; Williams, Michael; Williams, Mona; Williams-Johnson, Patrice; Williamson, Edward; Wilson, Ernest; Wilson, George; Wilson, Peter; Wood, Gene; Wood, Kent; Wright, Lisa (Gibney); Wrona, David; Wunder, George; Yerokun, Jimi; Young, Cale; Young, Mitzi; Zane, Steven; Zeiler, John; Zimmerman, Jacob; Zimmerman, Roy; Zabler, Marian

**Cc:** Scott, Tracy; Tallarico, Alison; Thoman, Raymond; Jones, Jackie; Blair, Tina; Chin, Allison; Dean, Vivian; Evans(HR), Marilyn; Himmelberg, Jude; Jackson, Briana; Jaigobind, Savi; Silberfeld, Dafna; Watson, Madonna; Williams, Michelle; Atkinson, Jeanne; Broadwater, Lynne; Brown, Keisa; Hicks, Beverly; Hicks, Valencia; Jonsson, Dawn; Lindsay, Sandy; Marziale, Riqueza; ORourke, Christine; Reeves, Gloria; Scott, Mary; Thomas-Richards, Karen; Todd, Colleen

**Subject:**

Managers, supervisors, team leaders, and T&L Coordinators,

Attached for your information is a document that addresses, in detail, work schedules and premium pay for individuals who serve in and support the NRC Operations Center or work in Japan, in response to the current, serious nuclear power plant issues in that country. NSIR and the NRC Japanese support team leader will provide the document to all participants.

T&L Coordinators, please note that participants in your organization may contact you to request a change in their HRMS workgroups for pay periods in which they perform emergency response work.

Participants should contact me if they have any questions on work schedules or premium pay.

Larry Davidson  
Office of Human Resources  
Nuclear Regulatory Commission  
301-492-2286; [lawrence.davidson@nrc.gov](mailto:lawrence.davidson@nrc.gov)



## **WORK SCHEDULE AND PREMIUM PAY GUIDANCE FOR RESPONSE TO EVENTS IN JAPAN**

Please first review this document and contact Larry Davidson of the Office of Human Resources (301-492-2286 or [lawrence.davidson@nrc.gov](mailto:lawrence.davidson@nrc.gov)) for any needed assistance.

### **Work Schedules**

One or more types of work schedules may be appropriate during a pay period in which you serve in and support the NRC Operations Center or work in Japan, in response to the current, serious nuclear power plant issues in that country. You are authorized to select the type of work schedule you will work during the pay period depending on:

- Your specific workdays and work clock hours in the Operations Center or in Japan, as well as any flexibility you have to choose those workdays and clock hours;
- Your entitlement to premium pay for work in the Operations Center or Japan;
- Your performance, if any, of regular duties outside of the Operations Center/Japan during the pay period; and,
- Your loss of earned credit hours if you switch from NEWFlex to another type of work schedule.

Possible work schedules include:

- Compressed work schedule – Appropriate if, during the entire pay period, your workdays and work clock hours are fixed (i.e., you do not have any flexibility to choose either) and there are fewer than ten nonovertime workdays in the pay period (at least one nonovertime workday contains more than eight nonovertime hours). Note that restrictions on nonovertime work clock hours and weekend workdays have been lifted for the pay period. An Expanded-Compressed Work Schedule may be appropriate (see the Yellow Announcement at <http://www.internal.nrc.gov/announcements/yellow/2003/2003-032.html> and Article 6.10.3 of the Collective Bargaining Agreement).
- NEWFlex - Appropriate if, during at least a portion of the pay period, you have some discretion to select your workdays and/or work clock hours (for example, if/when performing regular duties outside of the Operations Center or Japan). Note that restrictions on nonovertime work clock hours and weekend workdays have been lifted for the pay period.
- First-40 – Appropriate if it is impracticable to prescribe a regular schedule of definite hours of duty for each workday of the workweek (likely not appropriate).

Note that you must advise your T&L coordinator to change your HRMS workgroup if you change the type of schedule you work, e.g., if you normally work CWS and change to NEWFlex for the pay period in which you serve in and support the NRC Operations Center or work in Japan. Also note that if you switch from NEWFlex to another type of work schedule, you will lose and will be paid for any accumulated credit hours.

Also note that if you work fewer than 80 hours serving in and supporting the NRC Operations Center or working in Japan, your “home” supervisor will allow you discretion, to the extent possible, to decide how/when to cover any missing time.

### **Premium Pay**

Cap on Combined Salary Plus Premium Pay – The biweekly cap on premium pay has been lifted and will be applied on an annual basis during any pay period in which you serve in and support the NRC Operations Center or work in Japan (the annual cap will benefit you if you are paid a salary below the GG-15 step 10 salary rate). Your organization has been advised to contact CFO with employee names and dates of work.

Overtime pay or regular comp time – Overtime (limited to the higher of: your regular rate; or, 150% of GG-10 step 10) is paid for your work in excess of your full-time work schedule during the pay period. You may choose to be compensated via regular compensatory time off instead (limited to a 40-hour pay period carryover) if your overtime work was not scheduled in advance of the workweek, or regardless of when it was scheduled if you are on NEWFlex.

TRCs – Use “OT” for overtime pay and “COMPE” for regular comp time.

Night premium (10%) – This premium is paid for your *nonovertime* work between 6:00 p.m. and 6:00 a.m. the following morning, and for your *overtime* work during these clock hours if the work was scheduled in advance of the week in which you performed it. Also, this premium is paid for your periods of paid leave, if any, during night clock hours if, during the pay period, you have fewer than 8 hours of total paid leave inclusive of both night and day work.

TRC – NDIFF (hours must also be recorded under another TRC such as REG or OT).

Sunday premium (25%) – This premium is paid for your *nonovertime* work performed on a shift(s), any part(s) of which falls on a Sunday (e.g., a shift from Saturday at 6:00 p.m. to Sunday at 6:00 a.m.). Sunday premium is not payable for periods of nonwork, including leave, holidays not worked, and excused absence.

TRC – SUNP (hours must also be recorded under another TRC such as REG).

Standby status - You are eligible for special overtime pay if you are restricted by official order to a designated post of duty and assigned to be in a state of readiness to perform work, versus actually performing work, with limitations on your activities so substantial that you cannot use



your time effectively for your own purposes. We do not anticipate that any employee will be in a standby status.

### **Miscellaneous**

#### **Employee Assistance Program (EAP)**

Free, confidential counseling is available to you and your family members to address emotional issues, work problems, substance abuse, stress, crisis, marital/family concerns, financial matters, legal issues, eldercare resources, and childcare referrals. Call 1-800-869-0276 or check [www.eapconsultants.com](http://www.eapconsultants.com).

#### **Travel**

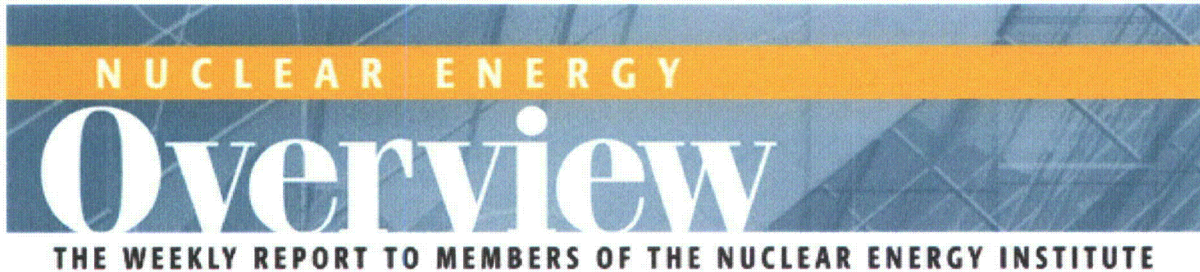
If you travel to/from Japan:

- Keep a log of specific travel times and work clock hours to help NRC compute your entitlement to compensation.
- Consider enrolling in the Smart Traveler Enrollment Program or STEP) to make it easier for the Embassy/Consulates to contact you in case of an emergency. You may enroll at <https://travelregistration.state.gov>, or if you have no internet access, directly at the U.S. Embassy or U.S. Consulates.
- If you are paid a salary below the GG-15 step 10 salary rate, you are entitled to overtime pay (limited to higher of: your regular rate; or, 150% of GG-10 step 10) for travel to/from Japan, and if the travel is during night hours (6:00 p.m. to 6:00 a.m.) and scheduled in advance of the workweek, you are also entitled to night premium pay. You may substitute regular compensatory time off (limited to a 40-hour pay period carryover) for overtime pay if your travel was not scheduled in advance of the workweek, or regardless of when it was scheduled if you are on NEWFlex.

TRCs – Use “OT” for overtime pay, “COMPE” for regular comp time, and “NDIFF” for night premium pay.

Cook, John

**From:** Nuclear Energy Overview [nei\_overview@nei.org]  
**Sent:** Friday, March 18, 2011 9:50 AM  
**To:** Cook, John  
**Subject:** Nuclear Energy Overview March 17, 2011 - Japan Quake



March 17, 2011

### **This week's top story —**

## **Earthquake and Tsunami Damage Nuclear Plants in Japan**

A magnitude 9.0 earthquake and subsequent tsunami struck Japan on March 11. Of Japan's 55 nuclear reactors, 11 reactors closest to the epicenter automatically shut down when the earthquake hit, as they are designed to do.

Most affected were four of the six reactors at the Fukushima Daiichi plant, operated by Tokyo Electric Power Company (TEPCO). The plants are located along the shore of the Sendai region, which contains the capital Tokyo. Both the earthquake and the tsunami were stronger than the design basis of the Daiichi plant in particular, and caused considerable damage to the plant's systems.

### **Other Stories this week —**

The latest information on the Japan nuclear situation is on [NEI's dedicated website](#).

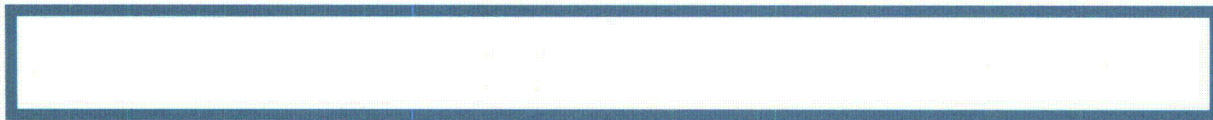
You can view Overview by clicking [here](#).



Your questions, comments, suggestions or any additions to the mailing list are welcome. We can be reached at [overview@nei.org](mailto:overview@nei.org). We look forward to hearing from you.

To unsubscribe, click [here](#).

For more information, visit [www.nei.org](http://www.nei.org).



This electronic message transmission contains information from the Nuclear Energy Institute, Inc. The information is intended solely for the use of the addressee and its use by any other person is not authorized. If you are not the intended recipient, you have received this communication in error, and any review, use, disclosure, copying or distribution of the contents of this communication is strictly prohibited. If you have received this electronic transmission in error, please notify the sender immediately by telephone or by electronic mail and permanently delete the original message. IRS Circular 230 disclosure: To ensure compliance with requirements imposed by the IRS and other taxing authorities, we inform you that any tax advice contained in this communication (including any attachments) is not intended or written to be used, and cannot be used, for the purpose of (i) avoiding penalties that may be imposed on any taxpayer or (ii) promoting, marketing or recommending to another party any transaction or matter addressed herein.

## Temps, Robert

---

**From:** Nicholson, John  
**Sent:** Friday, March 18, 2011 1:47 PM  
**To:** Learn, Matthew; Temps, Robert; Benner, Eric; Lipa, Christine  
**Subject:** Japan reactor update

First article that I have seen with any reference to dry cask storage on site

[http://www.world-nuclear-news.org/RS\\_Spraying\\_continues\\_at\\_Fukushima\\_Daiichi\\_1803111.html](http://www.world-nuclear-news.org/RS_Spraying_continues_at_Fukushima_Daiichi_1803111.html)

last paragraph of article:

### Central and dry fuel storage

Tokyo Electric Power Company has released the conclusions of a visual inspection of the power plant's central used fuel storage pond, where 60% of the total amount of used fuel is kept. Water levels there are 'secured'. A separate storage area where older fuel has been stored in dry casks since 1995 showed 'no signs of abnormal situation'. Detailed checks of both facilities are being prepared.

John Nicholson  
Health Physicist  
U.S. NRC, Region I  
Division of Nuclear Materials Safety  
[john.nicholson@nrc.gov](mailto:john.nicholson@nrc.gov)  
610-337-5236 (office)  
610-337-5269 (fax)



**From:** Gordon, Matthew  
**To:** Einzigler, Robert  
**Subject:** Deilverly System for Liquid N2 / Liquid Argon  
**Date:** Friday, March 18, 2011 8:20:26 AM  
**Importance:** High

---

It came to me after leaving the shower this morning. I would write to the RST today, but they will probably blow me off.

Balloons or milk jugs. It seems rather juvenile, but a large 3-person rubber-band catapult (like you buy at the toy stores) would do the job. Fill a milk jug with liquid Ar or N2 and start launching them into the spent fuel pool. Upon impact the jug will break, there is no danger of thermally shocking the fuel. A person can stick there hand in and out of liquid N2 without harm if they do it quickly enough, as the liquid N2 will vaporize so quickly. As you mentioned, the point of this is not to cool the fuel, but to prevent oxidation. Repeatedly lobbing milk jugs of liquefied gas into the spent fuel pool will eventually put out the fire.

---

From: Einziger, Robert  
Sent: Thursday, March 17, 2011 3:41 PM  
To: Gordon, Matthew  
Subject: FW: Proposal to handle dried Spent fuel pool.docx

From: Ordaz, Vonna  
Sent: Thursday, March 17, 2011 12:39 PM  
To: Dudes, Laura; Ruland, William; McIntyre, David  
Cc: Dorman, Dan; Haney, Catherine; Einziger, Robert; Rahimi, Meraj  
Subject: Proposal to handle dried Spent fuel pool.docx

Laura,

I understand that you are on duty as the RST Director today. From our shift last night, Bill Ruland and the RST staff were discussing various approaches to address the potentially dry SFP. One of our Senior Materials Experts, Bob Einziger has prepared the attached proposal to offer support on how to handle a dry SFP. He is available, if needed, and can be reached at 301-492-3283.

Thanks,  
Vonna

## **Einziger, Robert**

---

**From:** Gordon, Matthew  
**Sent:** Friday, March 18, 2011 8:42 AM  
**To:** Einziger, Robert  
**Subject:** Delivery System of Liquefied Gases into the Spent Fuel Pool to Prevent Oxidation  
**Importance:** High

I would write to the RST today, but they will probably blow me off. The question we got from RST was the delivery system of the argon or nitrogen. It came to me after leaving the shower this morning.

Balloons or milk jugs. Although I am not sure of the range required, it seems that a large 3-person rubber-band catapult (like you buy at the toy stores) or something rapidly put together with elastic materials should be able to launch a full milk jug 3-stories high into the pool. Fill a milk jug or any thin shelled plastic container with liquid Ar or N2 and start launching them into the spent fuel pool. Upon impact the jug will break. There is no danger of thermally shocking the fuel. A person can stick there hand in and out of liquid N2 without harm if they do it quickly enough, as the liquid N2 will vaporize so quickly. Given the conditions in the pool right now, the liquefied gas will vaporize readily since only limited quantities are being introduced at any one time.

As you mentioned, the point of this is not to cool the fuel, but to prevent oxidation. Repeatedly lobbing milk jugs of liquefied gas into the spent fuel pool will eventually put out the fire without thermally shocking the fuel. As we calculated before, you only need a 6x6x6 volume of liquefied gas to stop the whole process. As we discussed before, argon or a heavier inert gas is preferred to nitrogen due to density but either one should work.

If you think its worth a shot, email them or call them.  
-Matt



**Einziger, Robert**

---

**From:** Clifford, Paul  
**Sent:** Friday, March 18, 2011 11:06 AM  
**To:** Einziger, Robert  
**Subject:** Argon Proposal

Would the argon remain in the SFP even with the large heat source?

## Benner, Eric

---

**From:** Nicholson, John  
**Sent:** Friday, March 18, 2011 1:47 PM  
**To:** Learn, Matthew; Temps, Robert; Benner, Eric; Lipa, Christine  
**Subject:** Japan reactor update

First article that I have seen with any reference to dry cask storage on site

[http://www.world-nuclear-news.org/RS Spraying continues at Fukushima Daiichi 1803111.html](http://www.world-nuclear-news.org/RS_Spraying_continues_at_Fukushima_Daiichi_1803111.html)

last paragraph of article:

### Central and dry fuel storage

Tokyo Electric Power Company has released the conclusions of a visual inspection of the power plant's central used fuel storage pond, where 60% of the total amount of used fuel is kept. Water levels there are 'secured'. A separate storage area where older fuel has been stored in dry casks since 1995 showed 'no signs of abnormal situation'. Detailed checks of both facilities are being prepared.

John Nicholson  
Health Physicist  
U.S. NRC, Region I  
Division of Nuclear Materials Safety  
[john.nicholson@nrc.gov](mailto:john.nicholson@nrc.gov)  
610-337-5236 (office)  
610-337-5269 (fax)



**Benner, Eric**

---

**From:** NEWS Automated Mailer [ContactPointNEWS@iaea.org]  
**Sent:** Friday, March 18, 2011 5:06 AM  
**To:** NEWS.Contact-Point@iaea.org  
**Subject:** New Event on NEWS, Japan, Power Reactor

Dear NEWS User,

This is to notify you as a registered user of the NEWS Web site that a new Event with the title:

"Loss of cooling function and water supplying function on the spent fuel pool due to the big tsunami."

has as of today, Friday, 18 March 2011, 10:05:19 UTC, been added to the NEWS Web site. Additional information regarding the new Event is as follows:

Sender Country: Japan  
Date of Event: 2011-03-11  
Facility/Place: FUKUSHIMA-DAIICHI-4

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

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

NEWS Administration

## Kauffman, John

---

**From:** Lane, John  
**Sent:** Friday, March 18, 2011 1:22 PM  
**To:** Beasley, Benjamin; Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Kauffman, John; Killian, Lauren; Lane, John; Perkins, Richard; Reisifard, Mehdi; Salomon, Arthur; Siu, Carolyn; Smith, April; Wegner, Mary  
**Cc:** Hilary Lane  
**Subject:** Nuclear incidents over the years...slideshow

Here is a history of contemporary nuclear incidents where radiation was released:  
<http://www.cnbc.com/id/42112536?slide=1>

White, Bernard

---

**From:** Nuclear Plant Journal [anu@goinfo.com]  
**Sent:** Friday, March 18, 2011 2:52 PM  
**To:** Bajwa, Chris  
**Subject:** NPJ March 18, 2011 Japan Update

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



## Nuclear Plant Journal

An International Publication  
Published in the United States

### Nuclear Plant Journal E-News

**Japan Update**  
**March 18, 2011**

**Dear CHRIS,**

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

#### **In this issue**

[Chief Cabinet Secretary](#)

[TEPCO](#)

[JAIF](#)

#### **Chief Cabinet Secretary's Update**

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

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

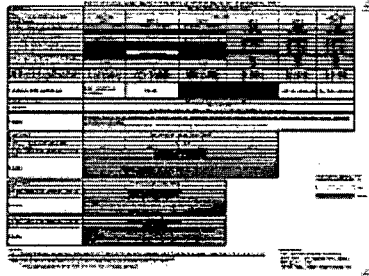
#### **Status Updates of TEPCO Facilities**

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

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

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

[Click for more...](#)



#### **JAIF Status Update**

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

#### **Quick Links...**

[NPJ Website](#)

[Cost-free Subscription](#)

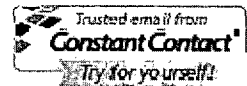
#### **Contact Information**

phone: 630-313-6739

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

**Forward email to an associate.**

 **SafeUnsubscribe**



This email was sent to [chris.bajwa@nrc.gov](mailto:chris.bajwa@nrc.gov) by [anu@goinfo.com](mailto:anu@goinfo.com) |  
[Update Profile/Email Address](#) | Instant removal with [SafeUnsubscribe™](#) | [Privacy Policy](#).  
Nuclear Plant Journal | 1400 Opus Place, Suite 904 | Downers Grove | IL | 60515



## Kauffman, John

---

**From:** Kauffman, John  
**Sent:** Friday, March 18, 2011 1:03 PM  
**To:** Concepcion, Milton  
**Subject:** Link

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

**From:** Chokshi, Niles *INFO*  
**To:** Hiland, Patrick; Skeen, David; Khanna, Meena; Manoly, Kamal  
**Cc:** Flanders, Scott  
**Subject:** FW: Tsunami Presentation  
**Date:** Friday, March 18, 2011 9:08:29 AM  
**Attachments:** [Final India Tsunami Linked Presentation.ppt](#)

---

I am forwarding a file of my presentation which was sent to the Comm. Magwood's staff by the RES (I was not aware that they were going to do that). As required, we are forwarding this to all commissioners. I think it contains a useful summary information (circa 2005, I think it is also current) and it has been used to develop Qs and As. This presentation was well coordinated when it was first developed.

---

**From:** Chokshi, Niles *INFO*  
**Sent:** Friday, March 18, 2011 9:01 AM  
**To:** Tadesse, Rebecca  
**Cc:** Graves, Herman; Williams, Donna; Rosales-Cooper, Cindy  
**Subject:** Tsunami Presentation

Rebecca,

As we discussed yesterday, I am sending you final version of the presentation I used. Please use this version instead of what was sent earlier. Please let me know if you have any questions.

Thanks,

Niles

Attachment Final India Tsunami Linked Presentation.ppt (407552 Bytes) cannot be converted to PDF format.

**From:** Stevens, Gary  
**To:** ASME Code Participants  
**Subject:** FW: Official ASME Statement on Events in Japan  
**Date:** Saturday, March 19, 2011 7:58:40 AM

---

---

**From:** Bob Simmons [ASMEPresident@asme.org]  
**Sent:** Friday, March 18, 2011 1:44 PM  
**To:** Gary L.Stevens; Stevens, Gary  
**Subject:** Official ASME Statement on Events in Japan

Dear ASME Members,

I'd like to share the official ASME statement on Japan that we will be releasing later today.

On behalf of our members, volunteers and staff worldwide, ASME expresses its heartfelt sympathies and concerns to all those affected by the historic earthquake and tsunami causing major widespread damage in Japan, and the unfolding events at the Fukushima Daiichi nuclear power station. This disaster is truly unprecedented in its scope and nature, particularly to Japan's transportation and energy infrastructure, including nuclear power, thermal power, hydro power, electric transmission, oil refining and beyond. ASME will be monitoring events as they continue to emerge and will be collaborating with our colleagues in Japan and elsewhere to understand the dimensions of these tragic events. We are deeply saddened by the loss of life and the scale of destruction, and we want to acknowledge the valiant and selfless efforts being made by our engineering colleagues in Japan to ensure public safety, along with the many other workers and officials who are heroically responding to this tragedy. Our thoughts and prayers are with the Japanese people at this difficult time.

Your collective efforts on behalf of ASME during this time are greatly appreciated.

Bob Simmons,

ASME President

-----  
\*\*\*\* You are currently subscribed to ASME's all\_customers\_timss as: Gary.Stevens@nrc.gov.

To unsubscribe to this list please click here:

[http://lyris.asmestaff.org/u?id=3024678.1a93dd3a3f3da340d075052637a55566&n=T&l=all\\_customers\\_timss&o=11247](http://lyris.asmestaff.org/u?id=3024678.1a93dd3a3f3da340d075052637a55566&n=T&l=all_customers_timss&o=11247)  
(It may be necessary to cut and paste the above URL if the line is broken)

or send a blank email to [leave-11247-3024678.1a93dd3a3f3da340d075052637a55566@lyris.asmestaff.org](mailto:leave-11247-3024678.1a93dd3a3f3da340d075052637a55566@lyris.asmestaff.org)

-----  
ASME, Three Park Avenue, New York, NY 10016-5990

V / 111

**From:** Praveen Malhotra (StrongMotions Inc.) [praveen.malhotra@strongmotions.com]  
**Sent:** Saturday, March 19, 2011 8:17 AM  
**To:** praveen.malhotra@strongmotions.com  
**Subject:** Japan Earthquake Ground Motions  
**Attachments:** Tohoku Japan Earthquake Response Spectra.pdf

Hello Everyone,

I thought of sharing with you some information regarding ground motions from magnitude Mw 9 Tohoku Japan Earthquake.

Attached PDF shows response spectra from 25 strongly shaken sites in Japan. All response spectra are for 5% of critical damping.

Note the following:

Very high accelerations at some stations, as would be expected since ground motions are highly random and some sites are bound to see very strong shaking during an earthquake.

Large deformations as would be expected from an earthquake of this size.

Very large number of response cycles which again is expected from a magnitude Mw 9 Earthquake.

Feel free to ask any questions or provide comments.

Regards,

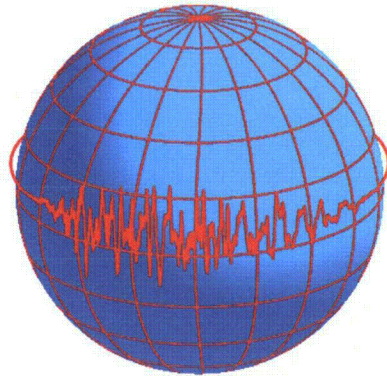
Praveen

Dr. Praveen K. Malhotra, P.E.

**StrongMotions Inc.**

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

781-363-3003

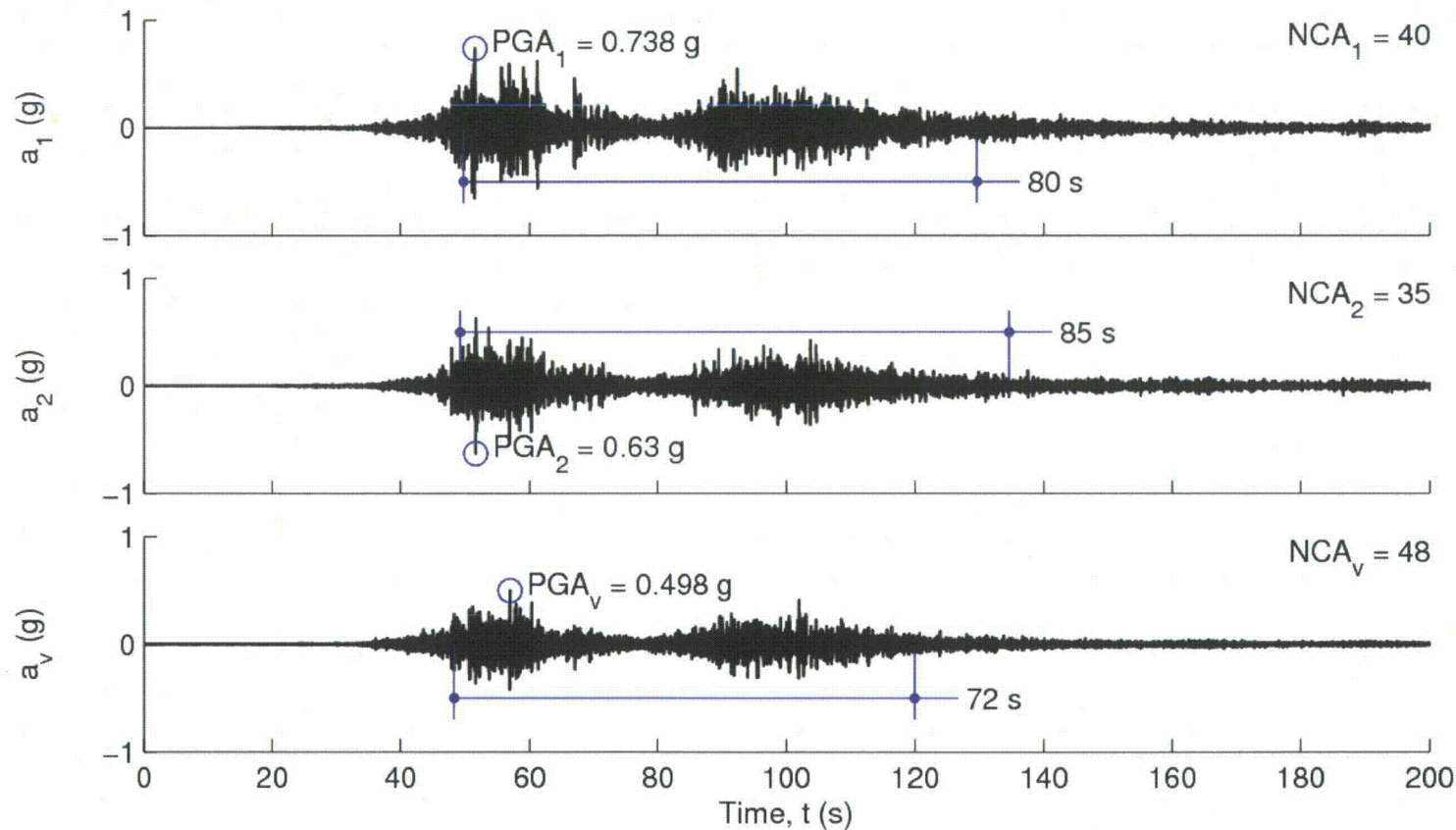


**StrongMotions**  
Knowledge and Clarity **Inc.**

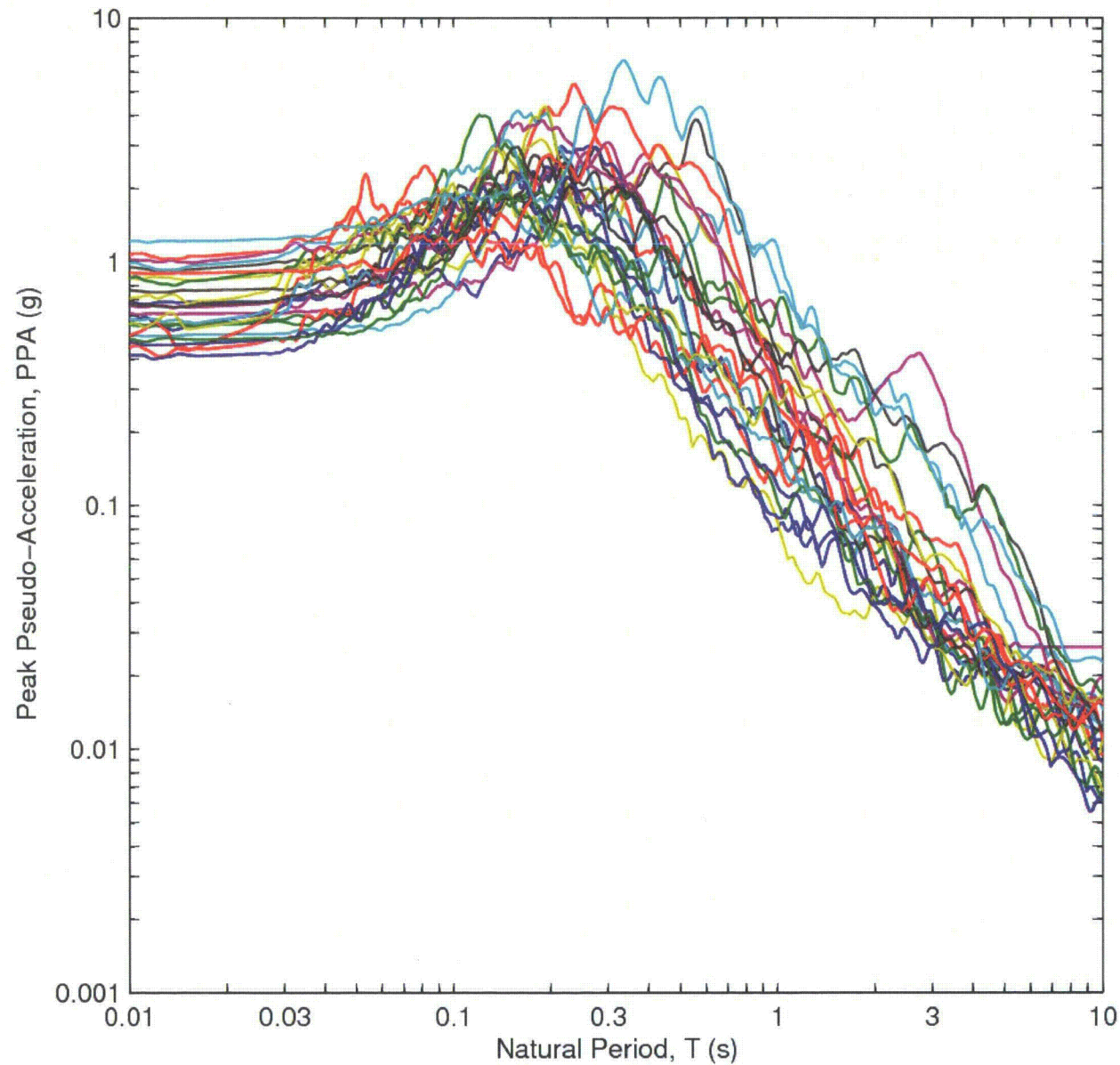
# **Response Spectra of Ground Motions from March 11, 2011 $M_w$ 9.0 Tohoku, Japan Earthquake**



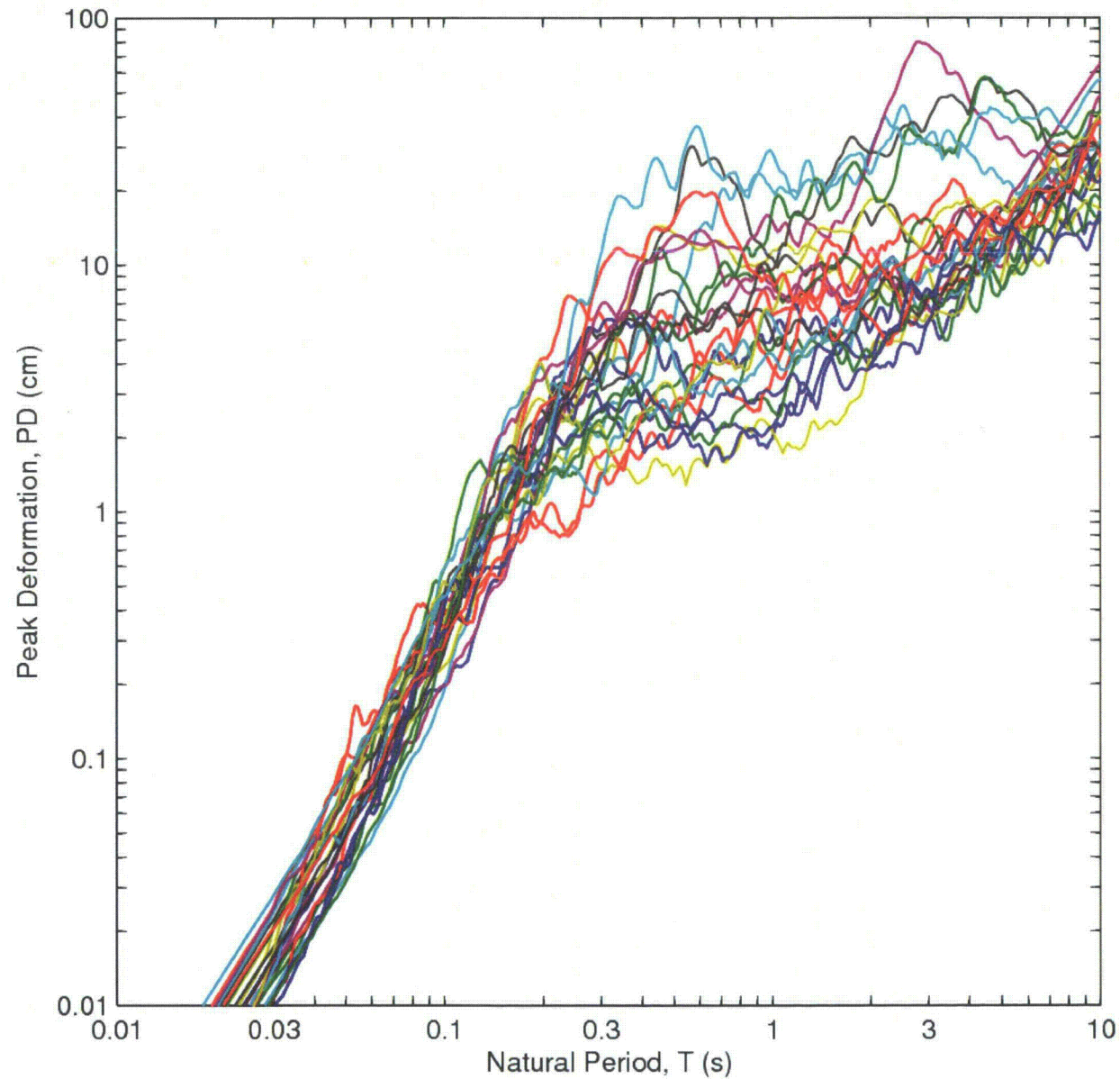
# Accelerations in Two Horizontal and Vertical Directions at a Selected Station



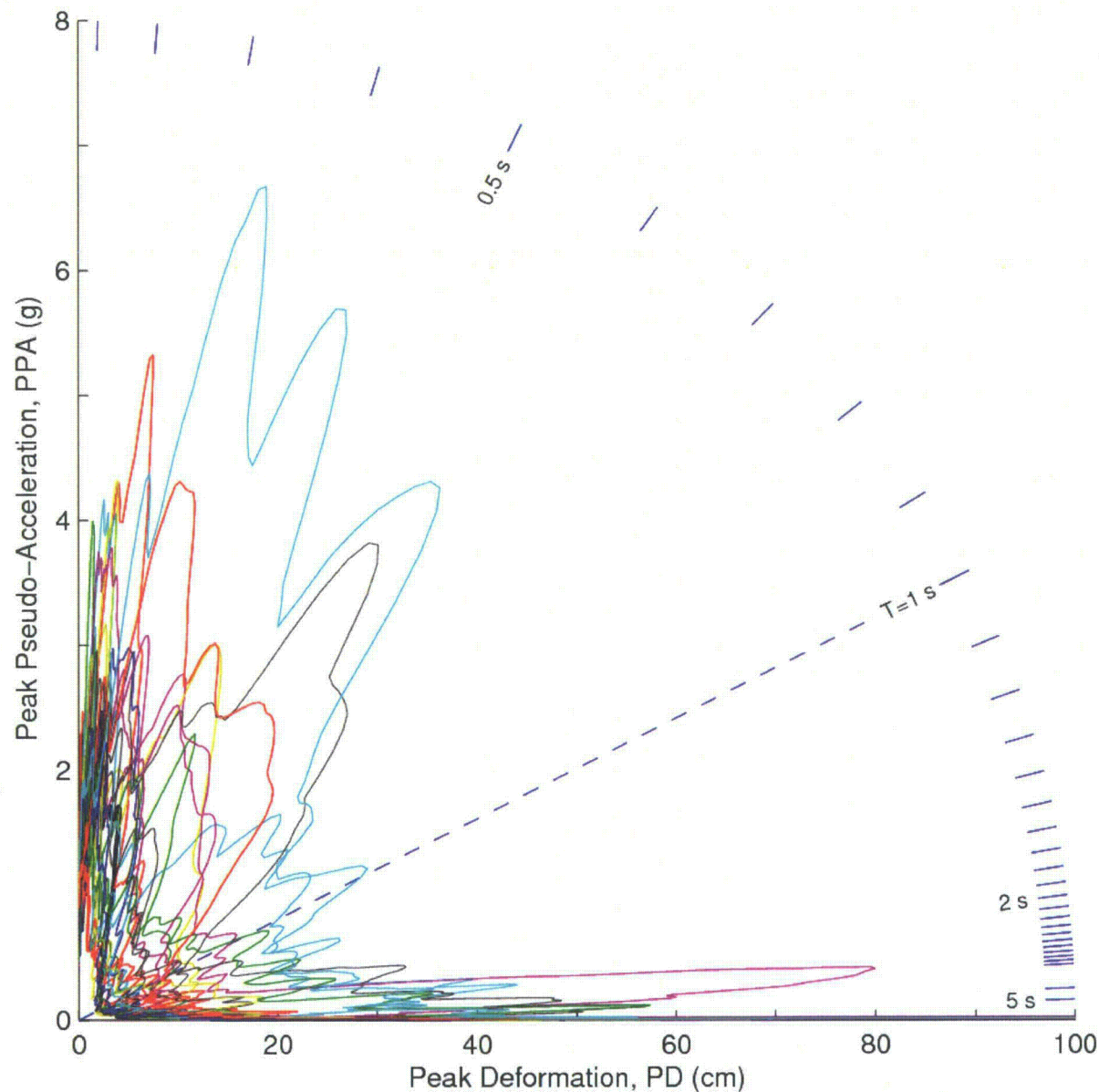
# Acceleration Spectra



# Deformation Spectra

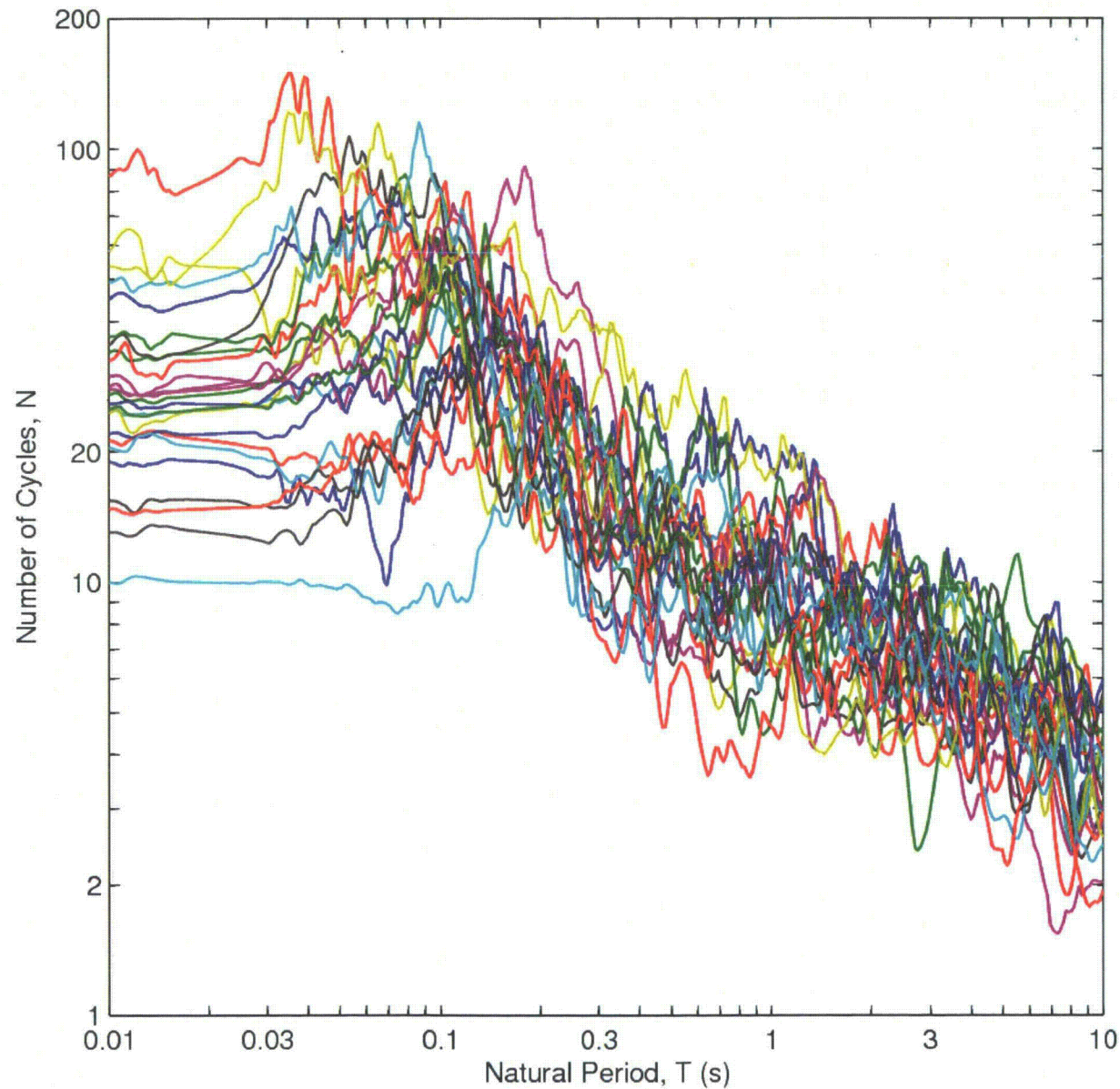


# Acceleration-Deformation Spectra





# Cyclic-Demand Spectra



# Sources of Data

- <http://www.strongmotioncenter.org>
- <http://nsmp.wr.usgs.gov/ekalkan/Tohoku/index.html>



RES

**From:** [Kammerer, Annie](#)  
**To:** [Burnell, Scott](#); [Hiland, Patrick](#); [Skeen, David](#); [Case, Michael](#); [RST01 Hoc](#); [LIA06 Hoc](#)  
**Cc:** [Uhle, Jennifer](#)  
**Subject:** RE: Seismic Q&As March 19th 8am update  
**Date:** Saturday, March 19, 2011 3:27:33 PM

---

Scott,

I'm glad they like them. Please be sure to post the 6 page version, instead of the 97 version you just attached!!!

WRT, Steve, I also got some questions sent to Mike Case (see below email)

The answer is as follows:

\*As described in regulatory guide 1.208 (and question 8 of the FAQ), we use a ground motion with an annual frequency of occurrence of  $1 \times 10^{-4}$ /year, but this can be thought of as the ground motion that occurs every 10,000 years on average. But we also check the  $1 \times 10^{-5}$ /year and the  $1 \times 10^{-6}$ /year, values to assure that the "slope" of the hazard curve (the curve of loads versus probability) is high enough (the values get very uncertain out there). There is a minimum values to the slope to assure that we are capture the risk of the very rare earthquakes. We do this because the hazard curve is convolved with the fragility curve (for all ranges of probability...including beyond design basis) and we want to makes sure it is a robust estimate of the beyond-design-basis risk.

\*First a series of Design Factors are applied to the "response spectrum"; and these are frequency dependent.

(The mathematical expression of the ground motion is not a single value, but is a "response spectrum"; a series of loads versus frequencies. A response spectrum is sort of like a Fourier spectrum of the ground motion, except that it captures the way things behave...not just the ground motion. For example, consider a building with a 1 second natural period and a loading in the form of a sine wave with a frequency of 0.9 seconds. The Fourier spectrum would have all the energy at 0.9 seconds and none at 1 second. But the building would certainly respond to the input; even though it is not exactly it's resonant frequency of 1 second. So the "response" spectrum would have content at 1 second, unlike the Fourier spectrum.)

Then, we look a the ground motion that is 1.67 times the  $10E-4$  response spectrum and assure that the HCLPF (high confidence of a low level of failure) exceeds that. In other words, we don't look at the average performance at 1.67 times the ground motions, we also account for natural variability in the strength of individual structures, systems, and components in the "failures sequences" and assure that we have 95% confidence of the plant's performance at the  $1.67 \times$  ground motion values.

The above answers are technical. I'm struggling to make them less technical, but it is hard because the answers are very complex. The very complex nature of this work is why I get paid the big bucks, even though I am really just a low level government functionary ☺. I've met Steve when he was at LBNL and we were just starting to do work with them in the seismic research program. I

know he's a very smart man and am hoping that he knows similar concepts from his own field.

Annie

---

From: Lyons, Peter <[Peter.Lyons@Nuclear.Energy.gov](mailto:Peter.Lyons@Nuclear.Energy.gov)>  
To: Case, Michael  
Sent: Fri Mar 18 19:14:53 2011  
Subject: RE: Summary of NRC Seismic Regulations

Thanks Michael  
Two more specific requests from our Secretary have gone in to the Chairman and the HOO:

What earthquake frequency does NRC use to set their anticipated g-loading level, 1 in 10,000 years or ??  
Once such a level of g loading is identified, what is the safety factor applied to that level??

Thanks  
pete

---

**From:** Burnell, Scott *OPA*  
**Sent:** Saturday, March 19, 2011 9:44 AM  
**To:** Kammerer, Annie; Hiland, Patrick; Skeen, David; Case, Michael; RST01 Hoc; LIA06 Hoc  
**Cc:** Uhle, Jennifer  
**Subject:** FW: Seismic Q&As March 19th 8am update

All;

OPA thinks these are great. We're working with the LT to provide them to DOE Sec. Chu and to get the PDF posted to the NRC Web site. Thanks.

Scott

**From:** Kardaras, Tom  
**To:** RES Distribution  
**Subject:** FYI: TODAY'S COMMISSION MEETING (9:00- 11:00am) - AVAILABLE CONFERENCE ROOMS FOR VIEWING THE MEETING  
**Date:** Monday, March 21, 2011 8:13:18 AM

---

These conference rooms will be available at Church Street today between 9:00– 11:00am to view the Commission Meeting that is being conducted at Headquarters on the events in Japan.

- **2 C 19**
- **4 C 19**
- **6 B 01**

**From:** [Gavrilas, Mirela](#)  
**To:** [Case, Michael](#); [Gibson, Kathy](#)  
**Subject:** Fw: Japanese Event Response and Available Resources  
**Date:** Monday, March 21, 2011 6:07:42 PM

---

Fyi...if you did not already know.

---

**From:** Schwarz, Sherry  
**To:** NRR Distribution  
**Sent:** Mon Mar 21 18:03:11 2011  
**Subject:** Japanese Event Response and Available Resources

I want to echo the Commission and Bill Borchardt's words of appreciation and admiration spoken of the staff during the Commission Meeting this morning. NRR has provided tremendous support over the last week, and we will continue our efforts in the weeks, months, and years to come.

In our continued efforts to assist with responding and centralizing information related to events in Japan, we've added a new feature to the homepage of the NRR internal SharePoint site, "[Japan Event Information](#)." All of the information under this title has been publicly released or has been approved to be used publicly in our responses to related questions that might arise. Included in the list is a link to the NRC public web site, "[NRC Actions on Japan's Emergency](#)," where you may find information related to NRC actions, including news releases, NRC Blog posts, Frequently Asked Questions (FAQs), and other related information and sources. Please be sure to check these resources frequently, as information is being updated daily.

In addition, I've assigned Bob Nelson, Deputy Director, Division of Operating Reactor Licensing (DORL), as the NRR Coordinator for External Communications related to NRR's response to the recent events in Japan. Assisting Nelson will be Sean Meighan and Quynh Nguyen from the NRR front office, Eric Thomas from Division of Inspection and Regional Support, Eric Oesterle from the Office of New Reactors and a communications "tiger team" formulated in DORL headed by Mike Markley. Harold Chernoff will also provide assistance as needed. Nelson and his team will be responsible for coordinating the development and review of related Qs & As and coordinating the response to related controlled correspondence tasked to NRR, including related 2.206 petitions.

Please forward all of your requests for support in this area, to [Nelson](#), 301-415-1453.

Thank you all for your continued support!

*Eric*

- NRR SharePoint Site: <http://portal.nrc.gov/edo/nrr/default.aspx>
- NRC Public Website: NRC Actions on Japan's Emergency:  
<http://www.nrc.gov/japan/japan-info.html>

V/115

**From:** Kardaras, Tom  
**To:** RES Distribution  
**Subject:** FYI: MORE INFORMATION ABOUT TODAY'S COMMISSION MEETING (9:00- 11:00am) - AVAILABLE  
CONFERENCE ROOMS FOR VIEWING THE MEETING  
**Date:** Monday, March 21, 2011 8:36:01 AM

---

These conference rooms will be available at Church Street today between 9:00– 11:00am to view the Commission Meeting that is being conducted at Headquarters on the events in Japan.

- 2 C 19
- 4 C 19
- 6 B 01

**We have received a number of inquiries whether there will be a bridge line during today's meeting. We have been informed that there will not be a bridge line.**

Also, RES staff who are working outside the NRC network, can view the meeting, through their Internet Service Provider (ISP) using the following URL: <http://video.nrc.gov/>  
Please be advised that the URL provided above will not work through CITRIX.

**From:** Dion, Jeanne  
**To:** Coyne, Kevin; Santiago, Patricia; Gibson, Kathy; Scott, Michael; Beasley, Benjamin; Hogan, Rosemary; Case, Michael  
**Cc:** Sheron, Brian; Uhle, Jennifer  
**Subject:** FW: MANY, MANY THANKS  
**Date:** Monday, March 21, 2011 2:20:38 PM

---

Thanks to everyone in RES who supported this morning's commission meeting with such short notice. RES had staff in every division contributing to make the briefing a success.

---

**From:** Howe, Allen  
**Sent:** Monday, March 21, 2011 12:15 PM  
**To:** Boska, John; Gratton, Christopher; Tully, Bridin; Sola, Clara; Miller, Ed; Mahoney, Michael; Andersen, James; Wittick, Susan; Deegan, George; Scott, Michael; Williams, Kevin; Milligan, Patricia; Wilson, George; Bowman, Eric; Thomas, Eric; Collins, Timothy; Harrison, Donnie; Salley, MarkHenry; Kammerer, Annie; Ramsey, Jack; Hall, Randy; Thadani, Mohan; Khanna, Meena; Dion, Jeanne; Shropshire, Alan; Williams, Donna; Bajwa, Chris; VandenBerghe, John; Johnson, Don; Patterson, Malcolm; Kahler, Robert; Anderson, Joseph; Tam, Peter; Pickett, Douglas; Martin, Robert; Sullivan, Randy; Norris, Michael; Kahler, Robert; Ellmers, Glenn  
**Cc:** Brenner, Eliot; Holahan, Gary; Uhle, Jennifer; Piccone, Josephine; Doane, Margaret; Leeds, Eric; Grobe, Jack; Boger, Bruce; Ruland, William; Brown, Frederick; Holian, Brian; Westreich, Barry; Lee, Samson; Cheok, Michael; Harrington, Holly; Uhle, Jennifer; Sheron, Brian; Borchardt, Bill  
**Subject:** MANY, MANY THANKS

Folks – the Commission meeting on the Japan event was an extremely high profile, short turnaround request. You all exemplified the best of what this agency is all about: outstanding cooperation, teamwork, and excellence in this effort. The focus and help was tremendous and many worked long hours including through the weekend to support this accomplishment. My sincere thanks to all of you for your hard work and dedication in making this meeting a success.

Thank you -

Allen Howe, Deputy Director  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission

P.S. many folks worked on this – apologies if I missed someone. Please forward to anyone that I may have missed.

5/117



**From:** [Graves, Herman](#)  
**To:** [Hogan, Rosemary](#); [Case, Michael](#); [Richards, Stuart](#)  
**Subject:** FW: MANY, MANY THANKS  
**Date:** Monday, March 21, 2011 12:56:00 PM

---

FYI. DE staff contributed to today's briefing.

<<Herman>>

<<301.251.7625>>

mail to: [Herman.Graves@nrc.gov](mailto:Herman.Graves@nrc.gov)

---

**From:** Khanna, Meena  
**Sent:** Monday, March 21, 2011 12:51 PM  
**To:** Kammerer, Annie; Chokshi, Niles; Stutzke, Martin; Farzam, Farhad; Mathew, Roy; Matharu, Gurcharan; Munson, Clifford; Jones, Henry; See, Kenneth; Wescott, Rex; Pelton, David; Terao, David; Cook, Christopher; Graves, Herman; Pires, Jose; Karas, Rebecca  
**Cc:** Wilson, George  
**Subject:** FW: MANY, MANY THANKS

Just wanted to echo what Allen said and share this with you to express our gratitude to all of you for your support of the comm. briefing..thanks again.

---

**From:** Howe, Allen  
**Sent:** Monday, March 21, 2011 12:15 PM  
**To:** Boska, John; Gratton, Christopher; Tully, Bridin; Sola, Clara; Miller, Ed; Mahoney, Michael; Andersen, James; Wittick, Susan; Deegan, George; Scott, Michael; Williams, Kevin; Milligan, Patricia; Wilson, George; Bowman, Eric; Thomas, Eric; Collins, Timothy; Harrison, Donnie; Salley, MarkHenry; Kammerer, Annie; Ramsey, Jack; Hall, Randy; Thadani, Mohan; Khanna, Meena; Dion, Jeanne; Shropshire, Alan; Williams, Donna; Bajwa, Chris; VandenBerghe, John; Johnson, Don; Patterson, Malcolm; Kahler, Robert; Anderson, Joseph; Tam, Peter; Pickett, Douglas; Martin, Robert; Sullivan, Randy; Norris, Michael; Kahler, Robert; Ellmers, Glenn  
**Cc:** Brenner, Eliot; Holahan, Gary; Uhle, Jennifer; Piccone, Josephine; Doane, Margaret; Leeds, Eric; Grobe, Jack; Boger, Bruce; Ruland, William; Brown, Frederick; Holian, Brian; Westreich, Barry; Lee, Samson; Cheok, Michael; Harrington, Holly; Uhle, Jennifer; Sheron, Brian; Borchardt, Bill  
**Subject:** MANY, MANY THANKS

Folks – the Commission meeting on the Japan event was an extremely high profile, short turnaround request. You all exemplified the best of what this agency is all about: outstanding cooperation, teamwork, and excellence in this effort. The focus and help was tremendous and many worked long hours including through the weekend to support this accomplishment. My sincere thanks to all of you for your hard work and dedication in making this meeting a success.

Thank you -

Allen Howe, Deputy Director  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission

P.S. many folks worked on this – apologies if I missed someone. Please forward to anyone that I

4/118

may have missed.

**From:** Kardaras, Tom  
**To:** RES Distribution  
**Subject:** FYI: TODAY'S COMMISSION MEETING (9:00- 11:00am) - AVAILABLE CONFERENCE ROOMS FOR VIEWING THE MEETING  
**Date:** Monday, March 21, 2011 8:11:02 AM

---

These conference rooms will be available at Church Street today between 9:00– 11:00am to view the Commission Meeting being that is being conducted at Headquarters on the events in Japan.

- **2 C 19**
- **4 C 19**
- **6 B 01**

NSIR

Japan

**From:** PMT09 Hoc  
**To:** Jaczko, Gregory  
**Cc:** Carpenter, Cynthia; Lewis, Robert; Ordaz, Vonna; Camper, Larry; Holahan, Patricia; Miller, Charles; Gibson, Kathy; Sullivan, Randy; Jones, Cynthia; Reis, Terrence; Cool, Donald; Holahan, Vincent; Milligan, Patricia; Tappert, John; Lui, Christiana; Lubinski, John; Coe, Doug; Zimmerman, Roy; Wiggins, Jim; Sheron, Brian; Johnson, Michael; Virgilio, Martin; Weber, Michael; Boger, Bruce; Batkin, Joshua; Coggins, Angela; Borchardt, Bill; Weber, Michael; Casto, Chuck; Dorman, Dan; Hoc, PMT12  
**Subject:** FW: PMT Position on Expansion of Protective Actions for US Citizens Beyond the Current 50 Mile Evacuation Recommendation  
**Date:** Monday, March 21, 2011 12:36:40 PM  
**Attachments:** PMT Position on Expansion of Protective Actions for US Citizens Beyond the Current 50 Mile Evacuation Recommendation.docx  
**Importance:** High

---

Mr. Chairman,

Attached is the latest update of the PMT position on expansion of protective actions for US Citizens.

---

**From:** Hoc, PMT12  
**Sent:** Monday, March 21, 2011 8:58 AM  
**To:** Jaczko, Gregory  
**Cc:** Carpenter, Cynthia; Lewis, Robert; Ordaz, Vonna; Camper, Larry; Holahan, Patricia; Miller, Charles; Gibson, Kathy; Sullivan, Randy; Jones, Cynthia; Reis, Terrence; Cool, Donald; Holahan, Vincent; Milligan, Patricia; Tappert, John; Lui, Christiana; Lubinski, John; Coe, Doug; Zimmerman, Roy; Wiggins, Jim; Sheron, Brian; Johnson, Michael; Virgilio, Martin; Weber, Michael; Boger, Bruce; Batkin, Joshua; Coggins, Angela; Borchardt, Bill; Weber, Michael; Casto, Chuck; Dorman, Dan; Hoc, PMT12  
**Subject:** FW: PMT Position on Expansion of Protective Actions for US Citizens Beyond the Current 50 Mile Evacuation Recommendation  
**Importance:** High

Mr. Chairman,

We sent you the attached previously and will update it with the following information. However, we wanted to ensure you received the following as soon as possible:

With regard to the  $1\text{E}-7$  uCi/ml reading at a military installation 90 miles SW of the Fukushima Plant, we understand this was 1 of 23 samples taken 2035 jst 3/20 through 0315 jst 3/21. The remaining samples and follow up samples were below minimum detectible. Therefore, it would not be unreasonable that this is an inaccurate sample/count.

While the initial report stated the  $1\text{E}-7$  uCi/ml reading was for radioactivity (possibly just radioactive iodine), the most recent gamma analysis performed and provided by Naval Reactors on the sample indicates the I-131 concentration is  $2.67\text{E}-10$  uCi/ml.

If one were to assume this is an accurate sample, one should consider the wind and plant conditions. From 3/20 til approximately 0001 jst 3/21, the wind at the plant was from the west/northwest. It shifted around 0001 jst 3/21 to coming from the north at around 5 mph. Our understanding is that the plant conditions with respect to any releases since approximately 3/15

✓  
4/1-20

would have been predominantly from spent fuel pools. Therefore, if this material came from the plant, it most likely would have been generated prior to 3/15. It could have generated from a spent fuel pool or from one of the reactors when venting was occurring. We believe reactor venting is no longer occurring.

---

**From:** Hoc, PMT12  
**Sent:** Monday, March 21, 2011 5:42 AM  
**To:** Zimmerman, Roy; Wiggins, Jim; Sheron, Brian; Johnson, Michael; Virgilio, Martin; Weber, Michael; Boger, Bruce  
**Cc:** Carpenter, Cynthia; Lewis, Robert; Ordaz, Vonna; Camper, Larry; Holahan, Patricia; Miller, Charles; Gibson, Kathy; Sullivan, Randy; Jones, Cynthia; Reis, Terrence; Cool, Donald; Holahan, Vincent; Milligan, Patricia; Tappert, John; Lui, Christiana; Lubinski, John; Coe, Doug  
**Subject:** FW: PMT Position on Expansion of Protective Actions for US Citizens Beyond the Current 50 Mile Evacuation Recommendation  
**Importance:** High

Attached is the staff's position on consideration for further protective actions for US citizens based on radiological information received from military assets in Japan.

---

**From:** Hoc, PMT12  
**Sent:** Monday, March 21, 2011 5:34 AM  
**To:** Jaczko, Gregory  
**Cc:** Batkin, Joshua; Coggins, Angela; Borchardt, Bill; Weber, Michael; Casto, Chuck; Dorman, Dan  
**Subject:** PMT Position on Expansion of Protective Actions for US Citizens Beyond the Current 50 Mile Evacuation Recommendation  
**Importance:** High

Mr. Chairman,

Attached is the staff's position on the expansion of protective actions, for your 8AM meeting.

**PMT Position on Expansion of Protective Actions for US Citizens Beyond the Current 50 Mile  
Evacuation Recommendation**

On March 21, 2011, the staff was alerted to air sampling at Ishioka, Japan, which appeared to indicate measurement of radioactive iodine concentrations approximately 90 miles southwest of the Fukushima I nuclear power facility. Specifically, a single air sample silver gel cartridge (used to collect radioiodines), when measured using a gross gamma detection counter (pancake probe), recorded a value slightly above the detectable level for the instrument. Based on the assumption that the activity reflects a valid measurement, a very low exposure to the public could possibly be assumed to occur.

**NRC Assessment:**

Detailed discussion between the staff and the Radiological Assessment Lead (RAL) at Naval Reactors concluded the following:

- 23 particulate air samples taken at Ishioka from 2035 (March 20) to 0315 (March 21) range from  $7 \times 10^{-9}$  uci/ml (2035, March 20) to  $5 \times 10^{-10}$  uci/ml (March 21).
- The iodine air sample (2035, March 20) measured at  $1 \times 10^{-7}$ , was the only sample recorded above minimum detectable levels. Follow up samples were all less than minimum detectable levels.
- There was some suspicion on the part of the RAL that the silver gel sample of concern was cross contaminated, which would result in an elevated reading on the gross gamma detector. Spectral analysis would be needed on the sample.
- Spectral analysis was performed on one air sample and provided by a fax from Naval Reactors dated March 21, 0525 EDT. Confirmed by call with RAL that sample was taken in Ishioka, but was not able to confirm the time of the sample. This sample was believed to be the  $1 \times 10^{-7}$  sample, but unable to confirm. Spectral analysis shows detectable levels of I-131, I-132, Te-132, Cs-134, Cs-136 and Cs-137. The concentrations in that  $1 \text{ m}^3$  sample are:

<u>Nuclide</u>	<u>Activity (uCi/cc)</u>
I-131	$2.67 \times 10^{-10}$
I-132	$1.02 \times 10^{-10}$
Te-132	$1.64 \times 10^{-10}$
Cs-134	$1.36 \times 10^{-10}$
Cs-136	$2.04 \times 10^{-11}$
Cs-137	$1.50 \times 10^{-10}$

- If one were to assume this is an accurate sample, one should consider the wind and plant conditions. Until approximately 0001 JST 3/21, the wind at the plant was from the west/northwest. It shifted around 0001 JST 3/21 to coming from the north at around 5 mph. Our understanding is that the plant conditions with respect to releases since approximately 3/15



have been predominantly from spent fuel pools. Therefore, if this material came from the plant, it would most likely have been generated prior to 3/15. It could have generated from a spent fuel pool or from one of the reactors when venting was occurring. We believe reactor venting is no longer occurring.

- Deposition samples (smears), direct gamma readings, and air samples have also been collected at Ishiota, and at Yakota (south, closer to Tokyo). Air samples are close to assumed background, smears show recordable contamination to approximately 5000 dpm/100cm<sup>2</sup>, and gamma radiation readings are reported as very slightly elevated (up to 0.06 mr/hr gamma).

#### NRC Recommendation:

The staff reviewed the available information against the EPA protective action guidelines (PAGs) (as described in EPA-400). Additionally, the staff spoke with Mr. Ed Tupin of EPA regarding protective action guideline implementation. **The staff and EPA representative concurred that the data provided by Naval Reactors represent a small fraction of EPA PAGs.** Currently, the EPA is monitoring environmental conditions on the western US coast, with a trigger point to further evaluate effect on US populations at 1% of the EPA PAGs. The EPA representative believed that issuing an action for US citizens in Japan based on minute levels of the EPA PAGs could set a precedent to initiate protective actions elsewhere, including in the US, which could have significant social and economic repercussions.

**The staff believes that, based on available data and in accordance with the EPA protective action guidelines, that the information provided by Naval Reactors DOES NOT provide a basis for additional protective actions beyond the current 50 mile evacuation recommendations in place. Further, any communication with the public should be consistent with the March 18, 2011 Joint EPA/DOE Statement: Radiation Monitors Confirm That No Radiation Levels of Concern Have Reached the United States.**

(<http://yosemite.epa.gov/opa/admpress.nsf/d0cf6618525a9efb85257359003fb69d/a765bae82e458d3485257857007373a5!OpenDocument>).

# **JOINT EPA/DOE STATEMENT: Radiation Monitors Confirm That No Radiation Levels of Concern Have Reached the United States**

Release date: 03/18/2011

Contact Information: NEWS MEDIA CONTACT FOR EPA: [press@epa.gov](mailto:press@epa.gov), 202-564-6794 /  
NEWS MEDIA CONTACT FOR DEPARTMENT OF ENERGY: (202) 586-4940

## **UPDATED – (please note differences in what was detected in Washington State and California)**

**WASHINGTON** – The United States Government has an extensive network of radiation monitors around the country and no radiation levels of concern have been detected. The U.S. Environmental Protection Agency RadNet system is designed to protect the public by notifying scientists, in near real time, of elevated levels of radiation so they can determine whether protective action is required. The EPA's system has not detected any radiation levels of concern.

In addition to EPA's RadNet system, the U.S. Department of Energy has radiation monitoring equipment at research facilities around the country, which have also not detected any radiation levels of concern.

As part of the Comprehensive Nuclear Test Ban Treaty Organization's International Monitoring System (IMS), the Department of Energy also maintains the capability to detect tiny quantities of radioisotopes that might indicate an underground nuclear test on the other side of the world. These detectors are extremely sensitive and can detect minute amounts of radioactive materials.

Today, one of the monitoring stations in Sacramento, California that feeds into the IMS detected miniscule quantities of iodine isotopes and other radioactive particles that pose no health concern at the detected levels. Collectively, these levels amount to a level of approximately 0.0002 disintegrations per second per cubic meter of air (0.2 mBq/m<sup>3</sup>). Specifically, the level of Iodine-131 was 0.165 mBq/m<sup>3</sup>, the level of Iodine-132 was measured at 0.03 mBq/m<sup>3</sup>, the level of Tellurium-132 was measured at 0.04 mBq/m<sup>3</sup>, and the level of Cesium-137 was measured at 0.002 mBq/m<sup>3</sup>.

Similarly, between March 16 and 17, a detector at the Department of Energy's Pacific Northwest National Laboratory in Washington State detected trace amounts of Xenon-133, which is a radioactive noble gas produced during nuclear fission that poses no concern at the detected level. The levels detected were approximately 0.1 disintegrations per second per cubic meter of air (100 mBq/m<sup>3</sup>),

The doses received by people per day from natural sources of radiation - such as rocks,

bricks, the sun and other background sources - are 100,000 times the dose rates from the particles and gas detected in California or Washington State.

These types of readings remain consistent with our expectations since the onset of this tragedy, and are to be expected in the coming days.

Following the explosion of the Chernobyl plant in Ukraine in 1986 – the worst nuclear accident in world history – air monitoring in the United States also picked up trace amounts of radioactive particles, less than one thousandth of the estimated annual dose from natural sources for a typical person.

As part of the federal government's continuing effort to make our activities and science transparent and available to the public, the Environmental Protection Agency will continue to keep all RadNet data available in the current online database.

Please see <http://www.epa.gov/japan2011> for more information.

Japan  
Related

**From:** Sheron, Brian  
**To:** Rini, Brett; Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: Funding Needs for Japan Follow-up - Resent to provide Attachment  
**Date:** Monday, March 21, 2011 6:39:03 PM  
**Importance:** High

---

See below. They called it off.

---

**From:** Flory, Shirley **On Behalf Of** RidsResOd Resource  
**Sent:** Monday, March 21, 2011 6:20 PM  
**To:** Sheron, Brian; Uhle, Jennifer; RidsResPmdaMail Resource  
**Subject:** FW: Funding Needs for Japan Follow-up - Resent to provide Attachment  
**Importance:** High

---

**From:** Jacobs-Baynard, Elizabeth (EDO)  
**Sent:** Monday, March 21, 2011 5:44 PM  
**To:** Kasputys, Clare; RidsNroOd Resource; RidsNrrOd Resource; RidsNsirOd Resource; RidsResOd Resource; RidsFsmeOd Resource; RidsNmssOd Resource; RidsOgcMailCenter Resource; RidsCsoMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource; RidsOipMailCenter Resource  
**Cc:** RidsNrrPmda Resource; RidsNroPmda Resource; RidsNsirPmda Resource; RidsResPmdaMail Resource; RidsFsmePbpaFmb Resource; RidsNmssTa Resource; Golder, Jennifer; Smolik, George; Muessle, Mary; Andersen, James; Allwein, Russell; Peterson, Gordon; Peterson, Gordon; Virgilio, Martin; Virgilio, Martin; Weber, Michael; Weber, Michael; Ash, Darren; Ash, Darren; Jacobs-Baynard, Elizabeth  
**Subject:** RE: Funding Needs for Japan Follow-up - Resent to provide Attachment  
**Importance:** High

Recalling e-mail. At this time, there is no need for offices to respond to the requested e-mail. OCFO has come up with rough estimates of the associated costs for near-term and long term tasks. Please be informed that there may be additional assistance requested from offices at a later date. Thanks for your support and cooperation.

Liz

---

**From:** Kasputys, Clare (EDO)  
**Sent:** Monday, March 21, 2011 4:18 PM  
**To:** RidsNroOd Resource; RidsNrrOd Resource; RidsNsirOd Resource; RidsResOd Resource; RidsFsmeOd Resource; RidsNmssOd Resource; RidsOgcMailCenter Resource; RidsCsoMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource; RidsOipMailCenter Resource  
**Cc:** RidsNrrPmda Resource; RidsNroPmda Resource; RidsNsirPmda Resource; RidsResPmdaMail Resource; RidsFsmePbpaFmb Resource; RidsNmssTa Resource; Golder, Jennifer; Smolik, George; Muessle, Mary; Andersen, James; Jacobs-Baynard, Elizabeth; Allwein, Russell; Peterson, Gordon; Peterson, Gordon; Virgilio, Martin; Virgilio, Martin; Weber, Michael; Weber, Michael; Ash, Darren; Ash, Darren  
**Subject:** Funding Needs for Japan Follow-up - Resent to provide Attachment

Resent to provide the Attachment

All,

4/12/11

The Chairman has requested for the NRC to conduct a Near-term (90 day effort) and a longer-term review (as discussed by Bill B at the Commission meeting today) of regulatory issues affecting U.S. operating reactors based on the events in Japan. The Chairman is interested in seeking supplemental funding to support our efforts for the above effort, in addition to NRC's costs associated with emergency response and technical experts sent to Japan. OCFO is preparing cost data associated with emergency response and technical support to Japan.

On Friday, the OCFO requested some initial estimates to support the reviews (see attached). At this time, we are requesting the offices to review these initial estimates and include some information concerning the work that is envisioned to support these reviews. Listed below are some initial thoughts about the scope of the near-term and long-term reviews. Also, consider what on-going efforts related to the development of our regulatory program could benefit with supplemental funding. For example, it was mentioned in the Commission meeting that NRC is currently working on GSI-199. Should funding be accelerated for this effort and others of this nature.

Near Term Review (90 day effort):

- Evaluate currently available technical and operational information from the Japan event to identify near-term (or immediate) operational or regulatory issues affecting U.S. operating reactors of all designs in areas such as protection against earthquakes, tsunamis, flooding, hurricanes, station blackout and a degraded ability to restore power; severe accident mitigation and emergency preparedness
- Develop recommendations for generic communications, orders, changes to inspection procedures and licensing review guidance, etc.
- Possibly prepare a 30 day quick look report

Longer-Term Review (Following obtaining sufficient technical information from the Japan event)

- Evaluate all technical and policy issues related to the event to identify additional research, generic issues, changes to the reactor oversight process, rulemakings and adjustments to the regulatory framework that should be conducted by the NRC.
- Evaluate interagency issues such as emergency preparedness.
- Applicability of the lessons learned to non-operating reactor and non-reactor facilities.

It is recognized that the full scope of the reviews has yet to be determined or the size of the group that will be conducting the analysis. Therefore, we are looking only for rough cost estimates. You are requested to send the level of funding (dollars and FTE) that is anticipated that could be obligated in FY 2011 for both the near-term and long-term efforts. We are asking the business line leads to coordinate with supporting offices and submit a response by business line and by office. Please send your responses to me and Liz Jacobs-Baynard and copy Jennifer Golder and George Smolik, OCFO NLT than Noon on Tuesday.

If you have any questions, please let me know.

Thank you for your support.

Kauffman, John

---

*Release*

**From:** Killian, Lauren  
**Sent:** Monday, March 21, 2011 3:09 PM  
**To:** Beasley, Benjamin  
**Cc:** Kauffman, John  
**Subject:** Briefing on GI-199 for NY Delegation\_March 22 2011\_1.05.pptx  
**Attachments:** Briefing on GI-199 for NY Delegation\_March 22 2011\_1.05.pptx



*draft - preliminary*

# Briefing on GI-199 for New York State Lt. Gov. Robert J. Duffy

March 22, 2011

# Agenda

- Background
  - Context and Results
  - Conclusions
  - Assumptions
  - Limitations
- Approach to Resolution
- Communication of Results

# Background: GI-199 Context and Results

- Generic Issues Program Stages

- Identification
- Acceptance
- Screening
- **Safety/Risk Assessment**
- Regulatory Assessment

- Generic Issue 199 Results

- Operating power plants are safe.
- Overall seismic risk estimates remain small in an absolute sense
- The new seismic data for some plants meet the criteria for further evaluation

## Background: GI-199 Conclusions

- Pursue plant-specific improvements to seismic safety
- Additional information and methods are needed to consider plant-specific cost beneficial changes

# Background: GI-199 Assumptions

- Results were a conservative, screening-level assessment to evaluate if further investigations are warranted.
- The results should not be interpreted as definitive estimates of plant-specific seismic risk because some analyses were very conservative making the calculated risk higher than in reality.
- The nature of the information used (seismic hazard data, plant-level fragility information) make these estimates useful only as a screening tool.

# Background: GI-199 Limitations

- ❑ Conservative, simplified screening analysis
  - ❑ Data Limitations
    - ❑ IPEEE data from late 1980s
    - ❑ USGS intended for local building codes, not nuclear power plants, so many adjustment made
  - ❑ Analytical Limitations
    - ❑ Simplified approach
    - ❑ Sensitive to some seismic modeling assumptions
- ❑ Report did not focus on plant specific results because of the assumptions and limitations in the analyses



# Approach to Resolution

- Issued an Information Notice to inform plants of the GI-199 Safety/Risk Assessment results. (September 2010)
- NRR is developing a generic communication to request needed data. (2011)
- NRR/RES are developing plans to review data (2011)

# Communication of Results

- Safety/Risk Assessment Report Publicly Released (September 2010)
- Information Notices (September 2010)
- Press Release (September 2010)
- Public Meeting (October 2010)
- Routine Quarterly Reports on Generic Issue status

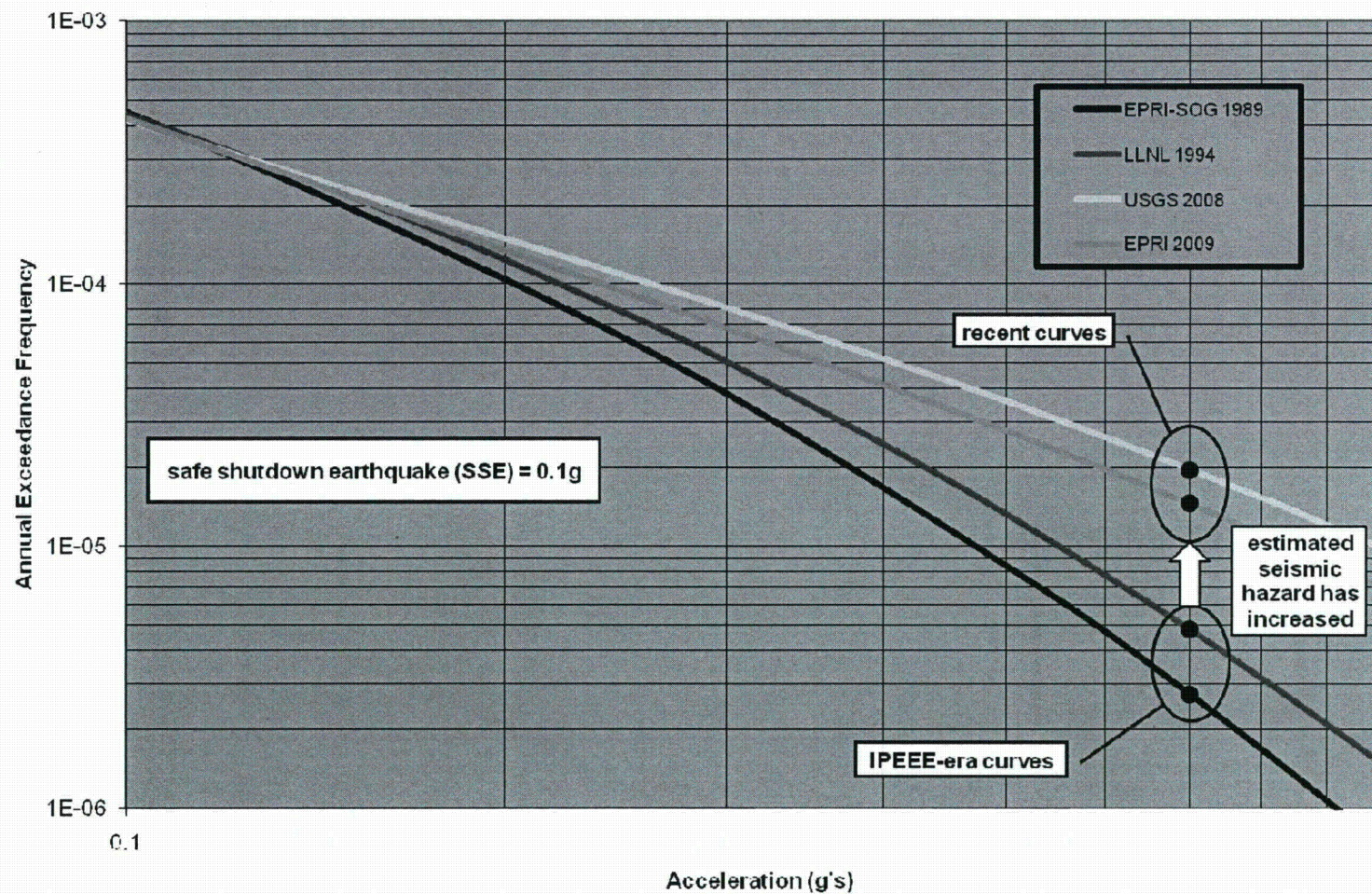


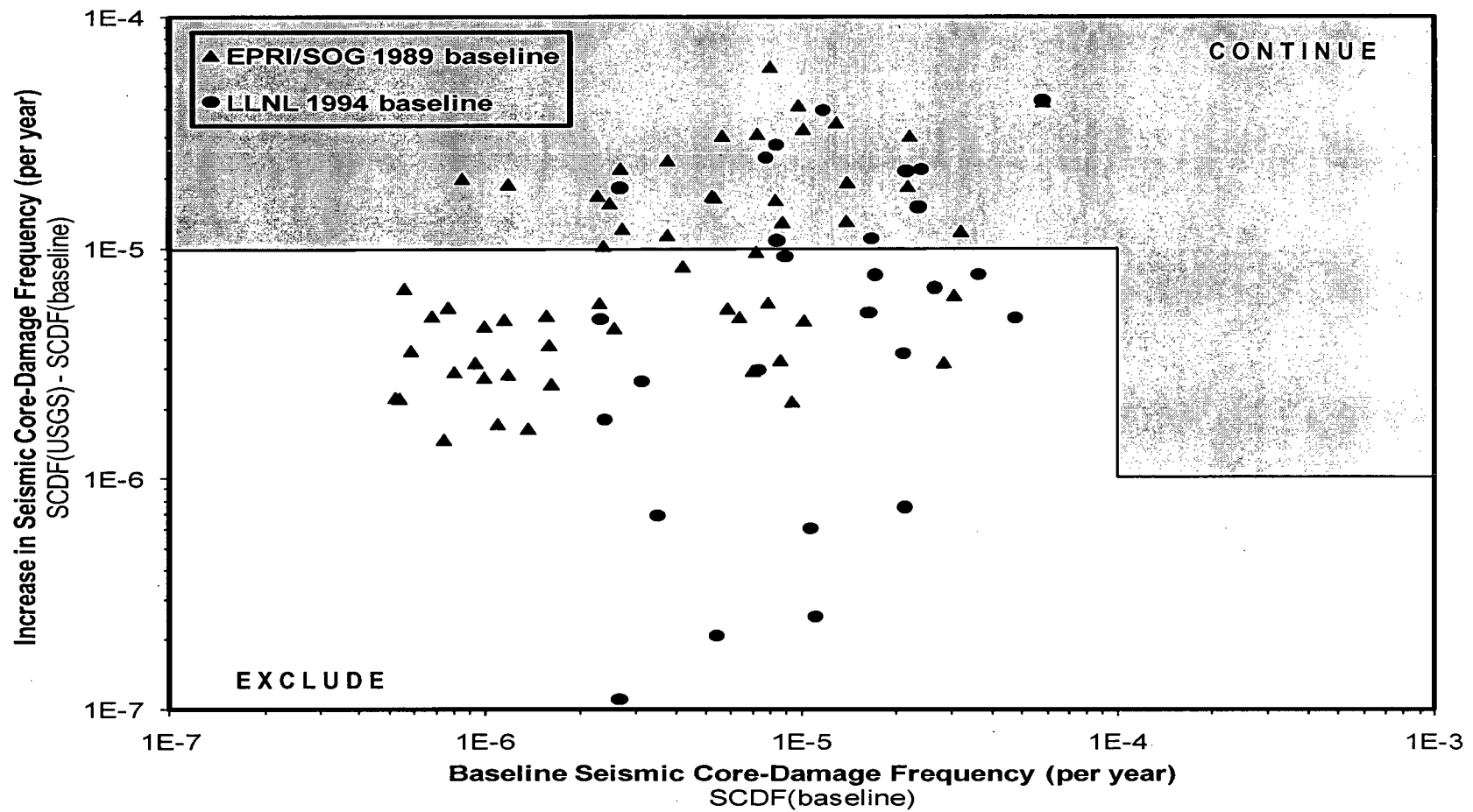
---

# Back-up Material

---

# Example - Comparison of Seismic Hazard Curves (Peak Ground Acceleration)



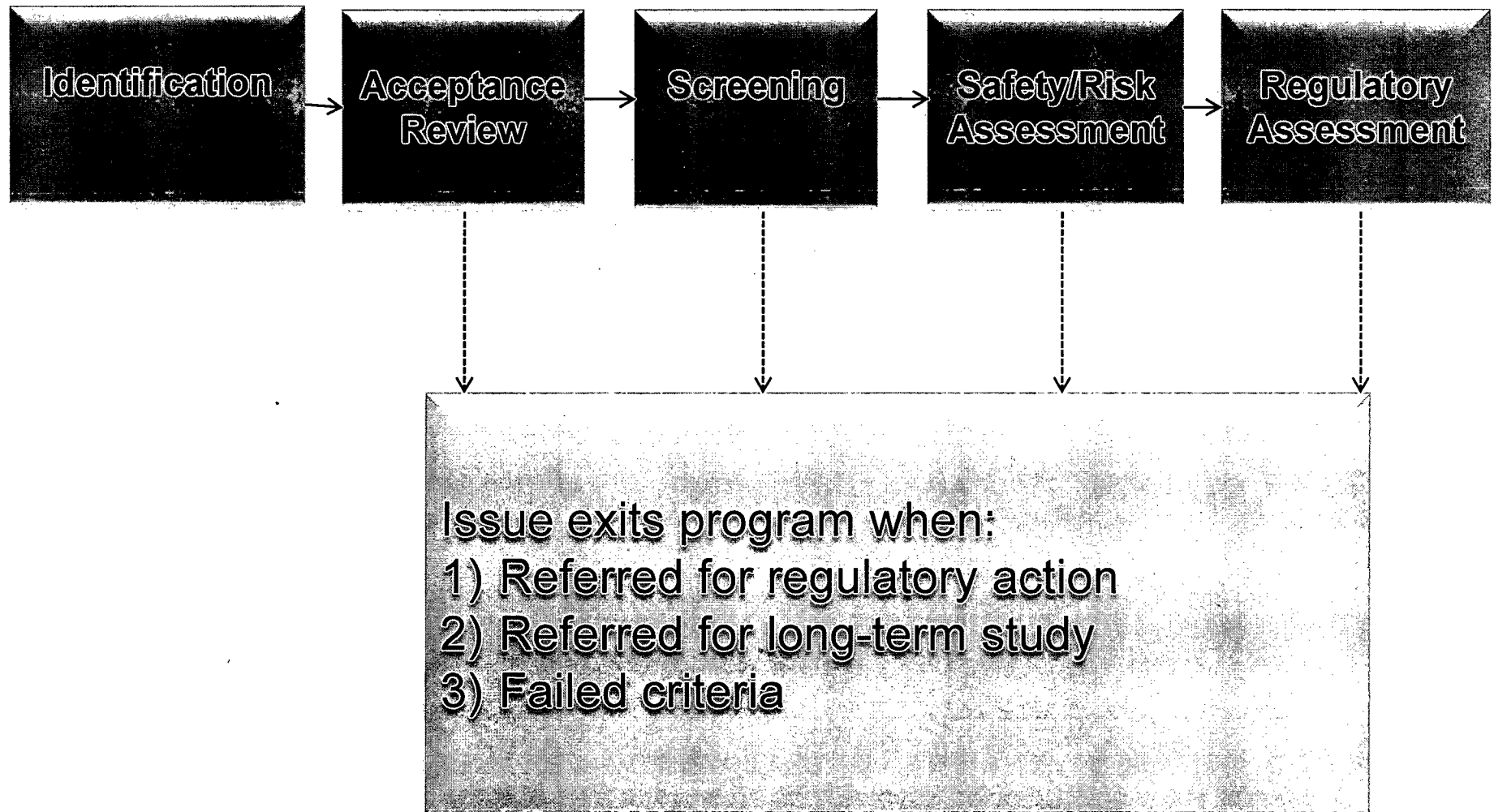


## Needed for GI-199 Regulatory Analysis

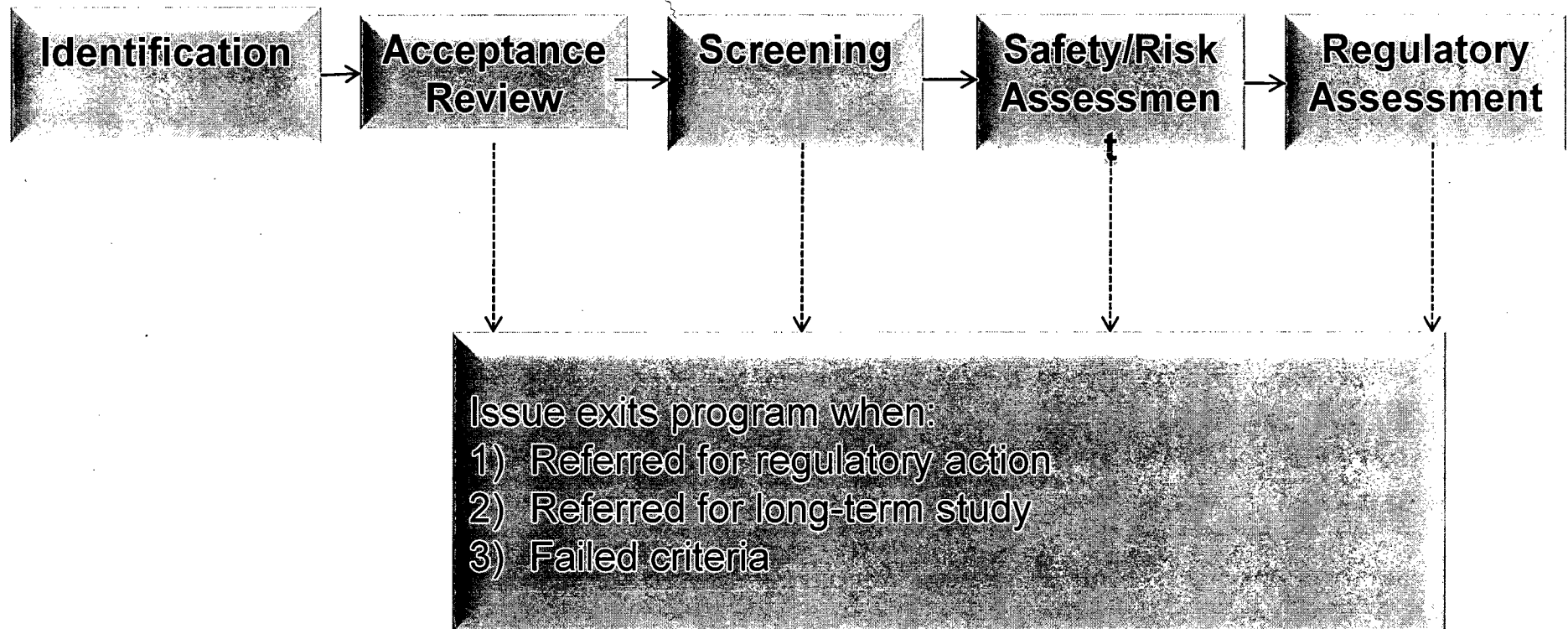
- Updated site specific hazard curves
- Frequency dependent, site specific amplification functions
- Plant level fragility information
- Plant specific contributors to seismic risk
  - Can be produced for plants with seismic PRA
  - Will need method developed for plants with SMA



# Generic Issues Process



# Generic Issues 5-Stage Process



**Kauffman, John**

---

**From:** Kauffman, John  
**Sent:** Monday, March 21, 2011 3:25 PM  
**To:** LIA05 Hoc  
**Subject:** RE: BLAST FROM THE PAST  
**Attachments:** image001.gif

Ken,  
Good to hear from you. I was in the Ops Center for the midnight shift Saturday night...kind of slow.

I am up at Church Street, 2<sup>nd</sup> floor, so not too convenient. Maybe you can stop in on your way to work one day.



*John V. Kauffman*  
Senior Reactor Systems Engineer  
US NRC/RES/DRA/OEGIB  
Washington, DC 20555 Mail Stop: C-2A07M  
Phone: 301-251-7465  
Fax: 301-251-7410

Please visit the [internal GIP web page](#) or [external GIP web page](#).

---

**From:** LIA05 Hoc  
**Sent:** Monday, March 21, 2011 3:18 PM  
**To:** Kauffman, John  
**Subject:** BLAST FROM THE PAST

Dr. Doom,

FYI, I am working in the NRC Operations Center. Tell me where you are located and I will come and visit sometime while I am here.

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

~~\*\*\*\*\*FOR OFFICIAL USE ONLY\*\*\*\*\*~~  
~~DO NOT RELEASE OUTSIDE OF THE FEDERAL FAMILY~~

**Kauffman, John**

---

**From:** Kardaras, Tom  
**Sent:** Monday, March 21, 2011 8:36 AM  
**To:** RES Distribution  
**Subject:** FYI: MORE INFORMATION ABOUT TODAY'S COMMISSION MEETING (9:00- 11:00am) - AVAILABLE CONFERENCE ROOMS FOR VIEWING THE MEETING

These conference rooms will be available at Church Street today between 9:00– 11:00am to view the Commission Meeting that is being conducted at Headquarters on the events in Japan.

- 2 C 19
- 4 C 19
- 6 B 01

**We have received a number of inquiries whether there will be a bridge line during today's meeting. We have been informed that there will not be a bridge line.**

Also, RES staff who are working outside the NRC network, can view the meeting, through their Internet Service Provider (ISP) using the following URL: <http://video.nrc.gov/>  
Please be advised that the URL provided above will not work through CITRIX.

## Kauffman, John

---

**From:** Bensi, Michelle  
**Sent:** Monday, March 21, 2011 7:58 AM  
**To:** Kauffman, John  
**Subject:** RE: Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/18/2011. [eom]

Updated:

### Last week activities

- Course: Westinghouse Technology Overview (R-104P) (Mon-Fri)
- Final touches on screening report related to flooding due to upstream dam failure

### Next week activities

- Help out in Ops Center (seismic questions)
- Attend Common Cause Failures Workshop (pending availability)

---

**From:** Bensi, Michelle  
**Sent:** Friday, March 18, 2011 11:04 AM  
**To:** Kauffman, John  
**Subject:** RE: Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/18/2011. [eom]

Thanks,  
Shelby

### Last week activities

- Course: Westinghouse Technology Overview (R-104P) (Mon-Fri)
- Final touches on screening report related to flooding due to upstream dam failure

### Next week activities

- Review common cause failure documents
- Attend Common Cause Failures Workshop

---

**From:** Kauffman, John  
**Sent:** Thursday, March 17, 2011 11:52 AM  
**To:** Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Killian, Lauren; Lane, John; Reisifard, Mehdi; Perkins, Richard; Salomon, Arthur; Wegner, Mary  
**Subject:** Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/18/2011. [eom]

### 03-21-2011 Briefing to the Commission on the incidents in Japan.

Five Commission members made open remarks.

Bill Borchardt spoke regarding the prepared presentation.

- Defense in depth

1. support NISA
2. gather info
3. support US Ambassador to Japan

Earthquake resulted in the shutdown of 10 reactors.

The tsunami cause the loss of emergency power to six units at F-D

1,2,3 in operation

4,5,6 in outages

H2 explosion in unit 1 Sat.

H2 explosion in unit 3 Mon

H2 explosion in unit 2 and 4 Tues

1,2,3 have experienced some core damage

Today 1,2,3 appear stable

Containment is currently maintained

Grey smoke today, source is unknown, no increase in radiation or temperature

Power on border of units 1 and 2, may be cableing problems in units 1 and 2

Over the next few days will be doing the same for units 3 and 4.

Diesel generators are at units 5 and 6

First concern was impact of tsunami of US plants

By Mon. dispatched 11 staff to Japan, support Japanese government, support NISA, help information flow from Japan to US fleet.

Ops Center remains in 24/7 posture.

EPA has not identified any radiation levels that are of concern in US from Japan.

Defense in depth. Will not rely on any one level of protection. So designs take into account the specific site characteristics. There are multiple physical barriers to radiation release. We have taken advantage of many lessons learned. As a result, we have revised emergency planning, added new requirements for hydrogen control, and required enhanced pumps and valves. After TMI, we created the resident inspector program.

New rulemaking that has been in place, station blackout rule, what would the plant's response be if it lost all AC power.

Hydrogen rule for beyond design basis hydrogen levels.

V/126



We've had a Mark 1 containment improvement plan for all BWR Mark 1s.

Will be enhancing inspection staff.

Have issued Information Notice to licensees.

Verifying loss of total electric power, and impact of flooding, and impact of seismic events. Will aid in evaluating industry ability to deal with events.

90 day evaluation of events in Japan. Will expect generic communication to come out of this. May lead to order with actions licensees will take place. Will include a 30 day quick look report to commission. Will have limited stakeholder feedback. Results will be made public.

Longer term, will be developing lessons learned. The review may include other federal agencies, (i.e. emergency preparedness FEMA). Start date of long term is unclear. Will identify additional research, changes to reactor oversight program, new rulemaking, interagency issues. Will expect substantial stakeholder involvement. Expect to result in generic communication.

### **Questions from Commission Members**

#### **In the staff's expert assessment, have the events stabilized?**

Offsite power is close to becoming available, that is a good sign things are turning around.  
Spent fuel pool in units 3 and 4, stabilizing.  
Containment stabilized in 1,2,3 and water being injected.  
Things are on the verge of being stabilized.

#### **Are the needs of the site being most urgently addressed?**

Radiation releases and dose rates that we have seen on site were from the condition of the units 3 and 4 spent fuel pool. They have been addressing those issues. Don't have a clear understanding of the conditions in the reactor buildings.

#### **Narrative of 3 events: earthquake, tsunami, loss of power. Is our regulatory focus where it needs to be?**

High degree of confidence has an adequate basis.

#### **Generic safety issue 199. What was occurring there and how will the events in Japan alter the results of that.**

USGS seismic info for central and east US. Everytime we get new info (seismic or otherwise), we do a quicklook to see if we need to take action.

#### **Our role in interagency response. Do we ensure all efforts of industry and industry interaction are coordinated?**

Try to facilitate in the US government role contact.

**Can you describe the info notice?**

Main purpose to have a regulatory follow-up to verify the plant procedures that all those things post 9-11 are still in place. Make sure they have not fallen into disuse because they haven't been used.

**Mark 1 BWRs in US. Venting valves because of containment, have the Japanese done this? If they have done this would that have affected the accident and in what way?**

Not clear if they have done this. It would not have affected loss of power. Vent would relieve the pressure in the taurus. The hardened vent would not have done anything to help the hydrogen that came from the spent fuel pool.

**Why did the Germans shut down their plants and we did not?**

Not aware of the Germans, but am 100% confident in US basis. Should we take a regulatory action based on the events and have not reached that conclusion.

Richter scale vs. horizontal ground acceleration. 9.0 was not expected. Strongest earthquakes occurred east of Rockies in 1800s at 7.7 range. But look at Japan, how do we address that. We look at faults, historical record, add margin, and consider specific location relative to fault. We design for a ground motion of a certain magnitude. We have actions in place that say even if we are wrong, we have equipment in place.

Ground motion in Japan, recently did a reevaluation which is in progress and it's not clear what modification were made. .62g, original design basis .37g. The ground motions were not out of the range they had considered. Tsunami guidance not issued yet.

We account for seismic zones in central and eastern US. The faults for the 1811 and 1812 earthquakes have not been identified.

**Mentioned probabilities, and we always ask, what if we are wrong? So probabilities are always easy to attack, but if we always ask this, it is less easy to attack?**

**Do we consider secondary events, (i.e. fire or tsunami after an earthquake?)**

Our reviews are very site specific. If you are on very soft soil, the review isn't challenging. You don't take every possible occurrence and pile them together. We take into account every natural phenomenon that could take place at an event. We analyze for a tsunami and we do that for our plants on the coast.

**Compare events in Japan to TMI in the media. I tend to compare to 9-11. Is there a major conceptual ah-ha that we'll miss?**

I don't see a significant weakness. Staff and maybe even recently retired people that need to take a look at how we apply defense in depth and being risk informed and evaluate if something different needs to be done. Has given me confidence, was viewed by some stakeholders as being overly conservative, but it appears to be paying off now.

**Do have the sense that the plant survived the earthquake, but the tsunami caused the loss of power. When you look at our plants, if you lose a lot of infrastructure, the ability**

**to get to a site, if you lose rail transport, I see a lot of struggle to get resources to the accident.**

In the US, we have the station blackout rule that requires an analysis and its coping strategy for complete loss of power. That has resulted in various approaches: a gas turbine, non-safety related diesel generators. We have the Department of Homeland Security. And the backstop for all of that is that the US industry shares operating experience and has an inventory of spare parts (outside of the regulatory framework).

**Is it your understanding that all hydrogen that led to the explosions came from the spent fuel?**

I couldn't guess, it's certainly a likely source.

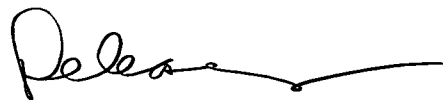
**What measures are in place to prevent hydrogen from collecting and exploding in U.S. plants?**

The hardened vent is designed to protect containment. So even if you have fuel damage, you can prevent the release of radioactive material. TMI had core damage, but radiological release was limited. The hardened vents will allow the primary containment to stay intact. We've required inerting of the containment since the late 1980's. It's filled with nitrogen, so if you don't have oxygen and even if you did have hydrogen, you don't have an explosion.

After TMI, there could be too many suggestions, some were absolutely beneficial to safety, but others if followed through, may not have been beneficial to safety.

It's a simple problem, all you have to do is keep water in the pool. Even in a bad situation where you have boiling, as long as you keep the fuel covered with water. What the task force has to do is evaluate the equipment that will be used isn't stored in the same area so it isn't damaged.

**So we do have a proposal on the table and we should act on that.**



**Kauffman, John**

---

**From:** Killian, Lauren  
**Sent:** Monday, March 21, 2011 2:59 PM  
**To:** Beasley, Benjamin  
**Cc:** Kauffman, John  
**Subject:** Briefing on GI-199 for NY Delegation\_March 22 2011\_1.04.pptx  
**Attachments:** Briefing on GI-199 for NY Delegation\_March 22 2011\_1.04.pptx

Briefing on GI-199  
for New York State  
Lt. Gov. Robert J. Duffy

March 22, 2011

# Agenda

- Background
  - Context and Results
  - Conclusions
  - Assumptions
  - Limitations
- Approach to Resolution
- Communication of Results



# Background: GI-199 Context and Results

## ■ Generic Issues Program Stages

- Identification
- Acceptance
- Screening
- **Safety/Risk Assessment**
- Regulatory Assessment

## ■ Generic Issue 199 Results

- Operating power plants are safe.
- Overall seismic risk estimates remain small in an absolute sense
- The new seismic data for some plants meet the criteria for further evaluation

## Background: GI-199 Conclusions

- Pursue plant-specific improvements to seismic safety
- Additional information and methods are needed to consider plant-specific cost beneficial changes

# Background: GI-199 Assumptions

- ❑ Results were a conservative, screening-level assessment to evaluate if further investigations are warranted.
- ❑ The results should not be interpreted as definitive estimates of plant-specific seismic risk because some analyses were very conservative making the calculated risk higher than in reality.
- ❑ The nature of the information used (seismic hazard data, plant-level fragility information) make these estimates useful only as a screening tool.

# Background: GI-199 Limitations

- Conservative, simplified screening analysis
  - Data Limitations
    - IPEEE data from late 1980s
    - USGS intended for local building codes, not nuclear power plants, so many adjustment made
  - Analytical Limitations
    - Simplified approach
    - Sensitive to some seismic modeling assumptions
- Report did not focus on plant specific results because of the assumptions and limitations in the analyses

# Approach to Resolution

- ❑ Issued an Information Notice to inform plants of the GI-199 Safety/Risk Assessment results. (September 2010)
- ❑ NRR is developing a generic communication to request needed data. (2011)
- ❑ NRR/RES are developing plans to review data (2011)

# Communication of Results

- ❑ Safety/Risk Assessment Report Publicly Released (September 2010)
- ❑ Information Notices (September 2010)
- ❑ Press Release (September 2010)
- ❑ Public Meeting (October 2010)
- ❑ Routine Quarterly Reports on Generic Issue status

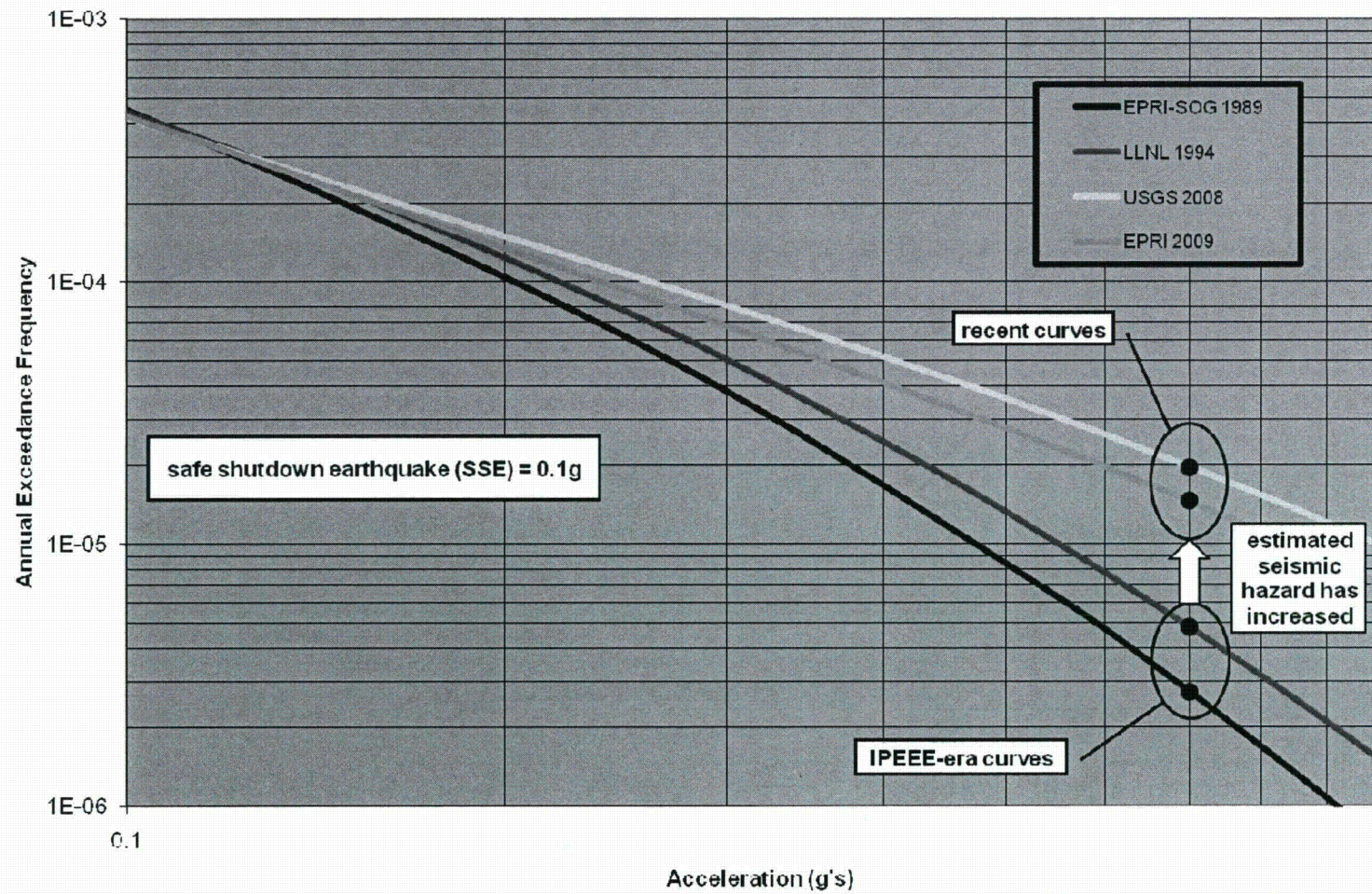


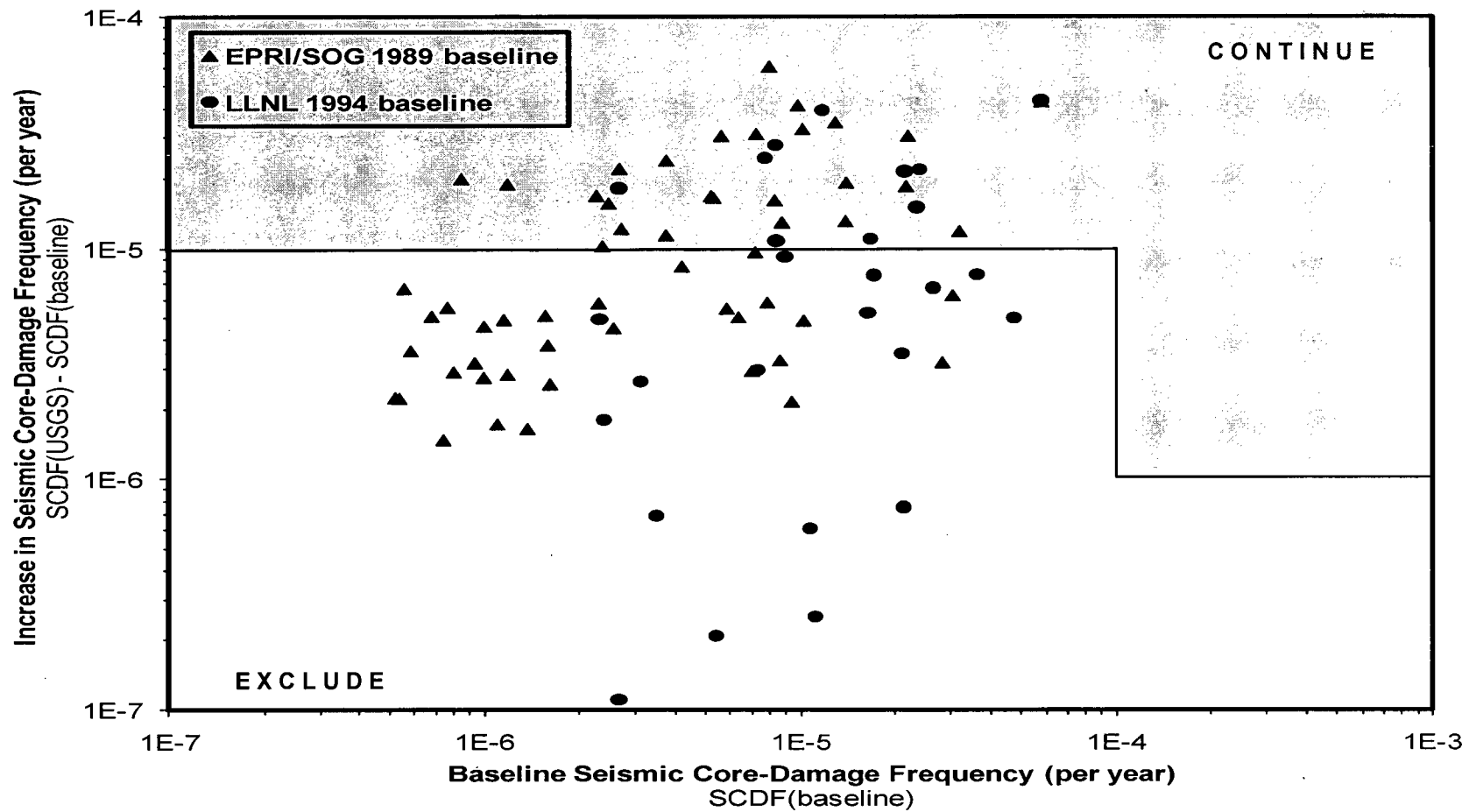


# Back-up Material

---

### Example - Comparison of Seismic Hazard Curves (Peak Ground Acceleration)



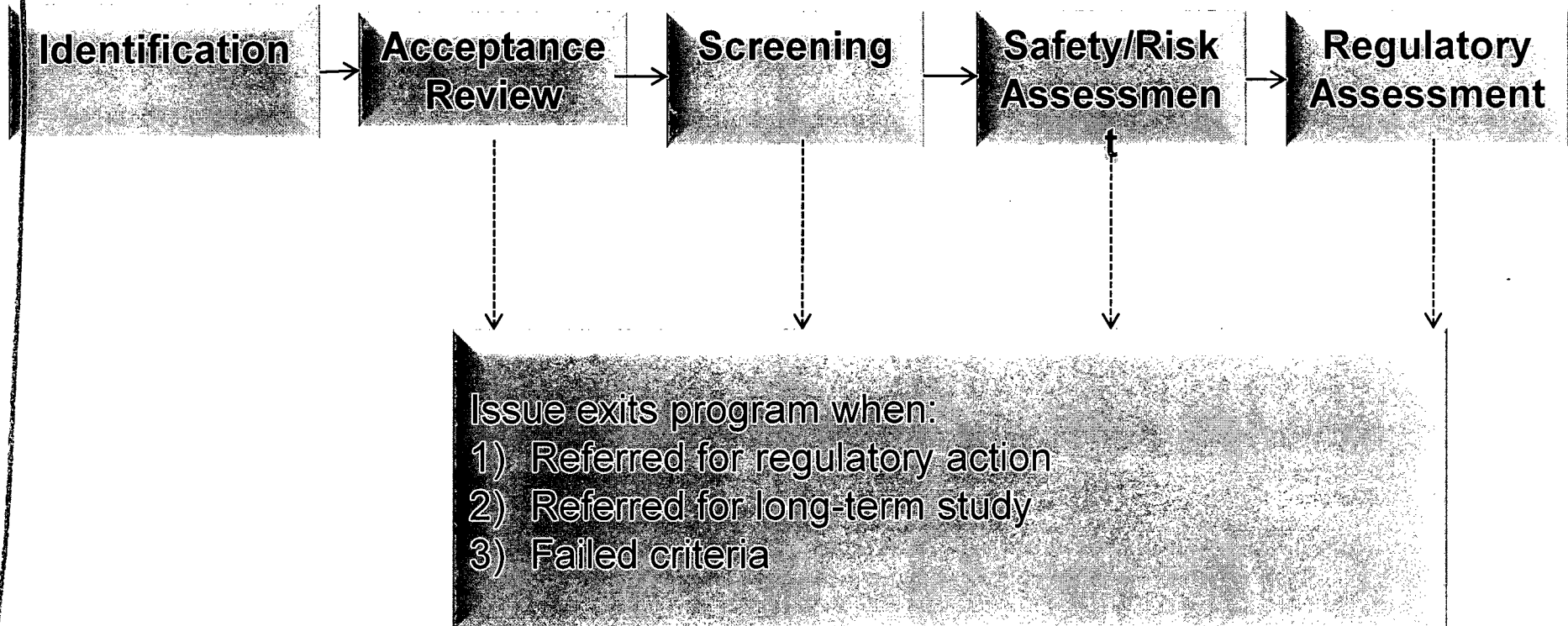


# Needed for GI-199 Regulatory Analysis

- ❑ Updated site specific hazard curves
- ❑ Frequency dependent, site specific amplification functions
- ❑ Plant level fragility information
- ❑ Plant specific contributors to seismic risk
  - ❑ Can be produced for plants with seismic PRA
  - ❑ Will need method developed for plants with SMA

# Generic Issues Process

# Generic Issues 5-Stage Process





*Release*

**Kauffman, John**

---

**From:** Beasley, Benjamin  
**Sent:** Monday, March 21, 2011 2:33 PM  
**To:** Boska, John  
**Cc:** Coe, Doug; Kauffman, John; Killian, Lauren  
**Subject:** GI-199 slides for NY state delegation meeting  
**Attachments:** Briefing on GI-199 for NY Delegation\_March 22 2011\_1 01 (3).pptx

Please see attached.

Briefing on GI-199  
for New York State  
Lt. Gov. Robert J. Duffy

March 22, 2011

# Agenda

- Background
  - Context and Results
  - Conclusions
  - Assumptions
  - Limitations
- Approach to Resolution
- Communication of Results

# Background: GI-199 Context and Results

- Generic Issues Program Stages

- Identification
- Acceptance
- Screening
- **Safety/Risk Assessment**
- Regulatory Assessment

- Generic Issue 199 Results

- Operating power plants are safe.
- Overall seismic risk estimates remain small in an absolute sense
- The new seismic data for some plants meet the criteria for further evaluation

# Background: GI-199 Conclusions

- Pursue plant-specific improvements to seismic safety
- Additional information and methods are needed to consider plant-specific cost beneficial changes

---

## Background: GI-199 Assumptions

- ❑ Results were a conservative, screening-level assessment to evaluate if further investigations are warranted.
- ❑ The results should not be interpreted as definitive estimates of plant-specific seismic risk because some analyses were very conservative making the calculated risk higher than in reality.
- ❑ The nature of the information used (seismic hazard data, plant-level fragility information) make these estimates useful only as a screening tool.

---

# Background: GI-199 Limitations

- ❑ Conservative, simplified screening analysis
  - ❑ Data Limitations
    - ❑ IPEEE data from late 1980s
    - ❑ USGS intended for local building codes, not nuclear power plants, so many adjustment made
  - ❑ Analytical Limitations
    - ❑ Simplified approach
    - ❑ Sensitive to some seismic modeling assumptions
- ❑ Report did not focus on plant specific results because of the assumptions and limitations in the analyses



---

# Approach to Resolution

- Issued an Information Notice to inform plants of the GI-199 Safety/Risk Assessment results. (September 2010)
- NRR is developing a generic communication to request needed data. (2011)
- NRR/RES are developing plans to review data (2011)

---

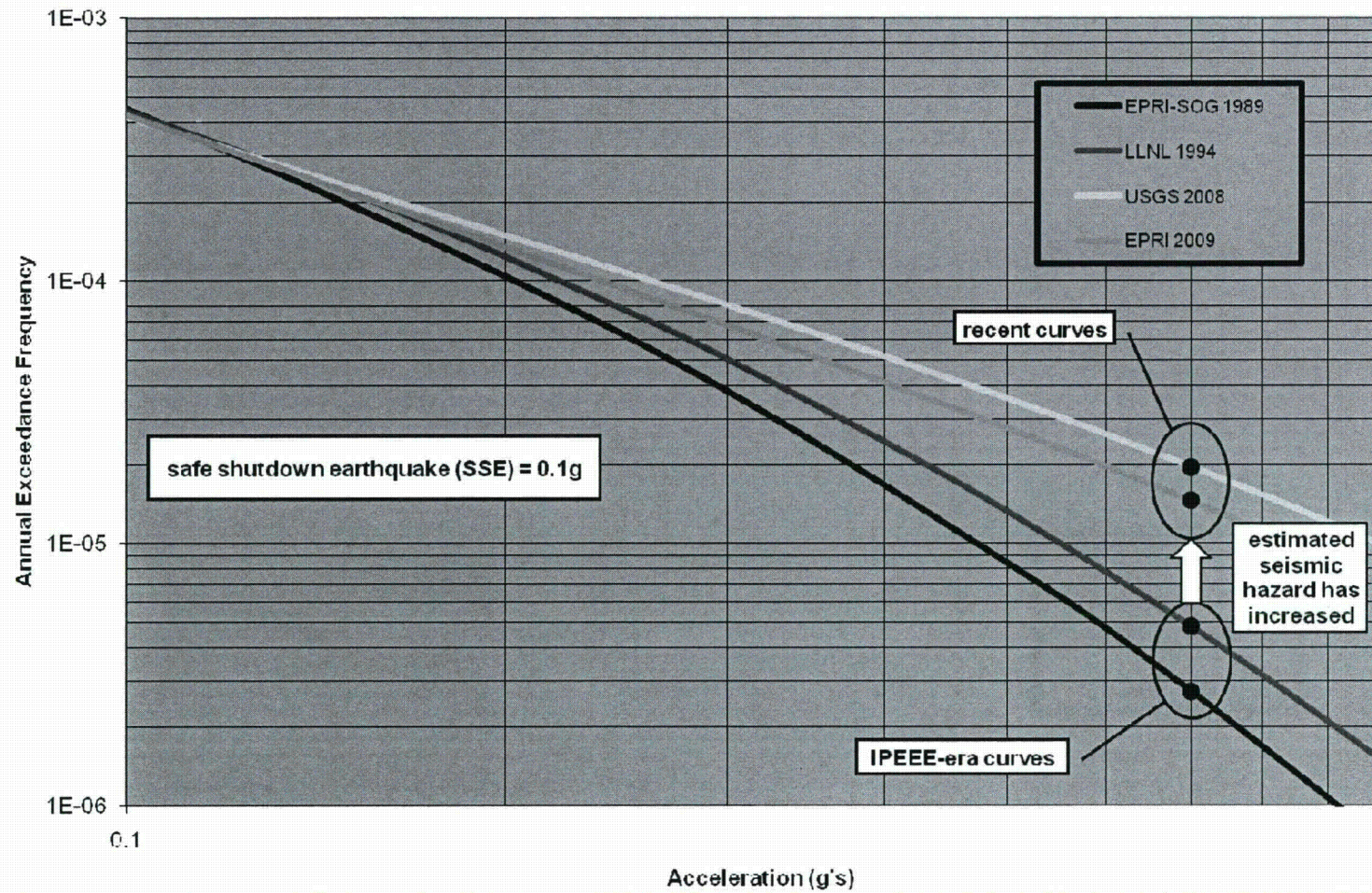
# Communication of Results

- ❑ Safety/Risk Assessment Report Publicly Released (September 2010)
- ❑ Information Notices (September 2010)
- ❑ Press Release (September 2010)
- ❑ Public Meeting (October 2010)
- ❑ Routine Quarterly Reports on Generic Issue status

# Back-up Material

---

# Example - Comparison of Seismic Hazard Curves (Peak Ground Acceleration)





---

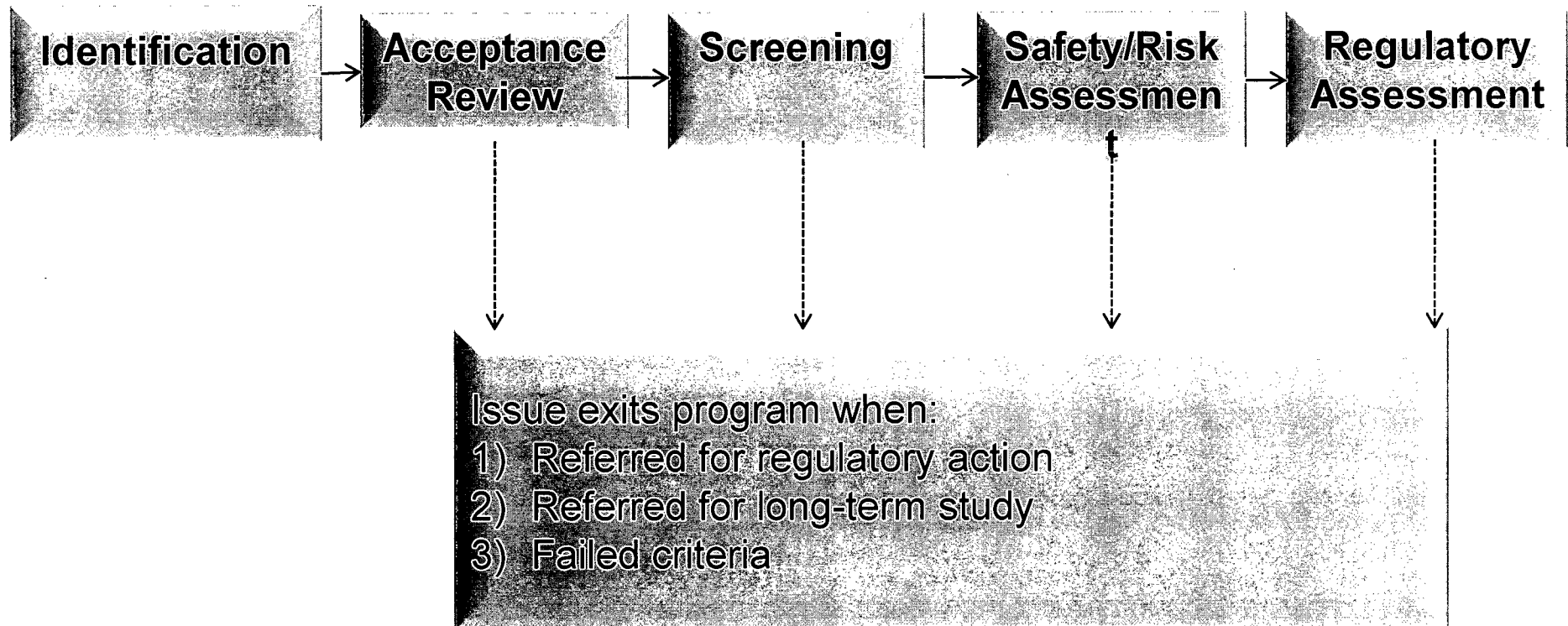
## Needed for GI-199 Regulatory Analysis

- Updated site specific hazard curves
- Frequency dependent, site specific amplification functions
- Plant level fragility information
- Plant specific contributors to seismic risk
  - Can be produced for plants with seismic PRA
  - Will need method developed for plants with SMA

# Generic Issues Process



# Generic Issues 5-Stage Process



## **Vegel, Anton**

---

**From:** Carson, Louis  
**Sent:** Monday, March 21, 2011 1:02 PM  
**To:** Alexander, Ryan; Erickson, Randy  
**Cc:** Werner, Greg; Conatser, Richard; Vegel, Anton; Pruett, Troy  
**Subject:** FW: Briefing Sheet home.doc  
**Attachments:** Briefing Sheet home.doc

FYI Guys:

---

**From:** Somerville, Mark [<mailto:MOS3@pge.com>]  
**Sent:** Monday, March 21, 2011 9:53 AM  
**To:** Conway, John; Welsch, James; Becker, James; Nimick, Jan; Peters, Kenneth; Ginn, Michael A. (DCPP); Flake, Paul; Inman, Kristin; Carson, Louis  
**Subject:** Briefing Sheet home.doc

All,

I'm running down additional rain water samples.

We have a nice channeling effect with the winds right now. It looks to me like the positioning of a high over Utah plus a big one off shore to the north, shown on the NOAA 3 day maps, will start to give us back some dispersion.

Mark

Mark O. Somerville Ph.D.  
Manager-Radiation Protection  
Certified Health Physicist  
Registered Environmental Assessor  
(805) 545-4007  
(805) 545-3459 - Fax  
[mos3@pge.com](mailto:mos3@pge.com)

4/4/2011 11:13:25 AM

AutoUpdated field  
Originate date 03/21/11

## Air Sample Data

Continuous air samplers monitoring gasses and particulate show no increase in the past 24 hours. (Tuesday)

Particulate and Iodine grab samples revealed NO DETECTABLE ACTIVITY. (Wednesday)

Particulate and Iodine grab samples revealed NO DETECTABLE ACTIVITY. (Thursday)

**UPDATE:** This morning Diablo identified Iodine-131 from the Fukushima Site. The level is 6.349 E-13 micro-curies per cubic centimeter of air. This is 0.3% of the NRC effluent concentrations (10CFR20, Appendix B, Table 2) values and 0.003% of occupational values. In other words, VERY low level and at the limits of our detection capability. (Friday)

- **UPDATE for Saturday, March 19, 2011:** Augmented 4 hour samples show No Detectable Activity.
- This morning's 24 hour sample shows 5.64 E-13 micro-curies per cubic centimeter Iodine - 131.
- **Explanation:** This activity was most likely captured early in the run. This is still very close to detection limits.
- **Consequences:** In cooperation with the International System of Occupational Exposures (ISOE), specifically the North American Regional Technical Center and the EPA RadNet data network in San Francisco, "Plume" contents would result in calculated doses of 0.007 mrem to and adult thyroid and, 0.01 mrem to a child thyroid. In other words, essentially nothing.
- Continuous air monitors showed an approximately 12 hour cycle lasting from about 0330 on March 18 to about 1500 on March 18. The peak was seen at about 1100 on March 18. This confirms the EPA estimate of a 12 hour "plume" passage.

Saturday

- **UPDATE FOR SUNDAY 3/20/2011**
- 24 hour samples show Iodine 131 – 1.04 E-12 micro-curies per cubic centimeter.
- 4 hour samples show Iodine 131 – 7.45 E-12 micro-curies per cubic centimeter.
- Context- Because of the larger volume, the 24 hour sample is more reliable.
- Context- This INCREASING trend appears to be related to continuing detection of the release from Fukushima combined with accelerated transport by recent storms.
- Rain water samples show Iodine 131 – Levels are about 3 E-7 micro-curies per milliliter. This is consistent with rain out from this "plume".

Summary: Airborne I-131 samples show increased concentration. DOSE consequences still no-existent – on the order of 0.01 mrem thyroid dose. Rain water consistent with measured "plume" contents.

3/20/2011 7:24:05 AM

3/21/2011 5:27:00 AM

- 24 hour samples show Iodine 131 – 5.07 E-12 micro-curies per cubic centimeter. Continued upward trend.
- No additional rain water sample data at this time. Update when available.

## Other Samples

No samples obtained to date show Fukushima related radioisotopes. (Tuesday)

Pressurized ion chamber dose rate trends are flat. That means no changes were seen in external dose rates. (Wednesday)
Pressurized ion chamber dose rate trends are flat. That means no changes were seen in external dose rates. (Thursday)
Pressurized ion chamber dose rate trends are flat. That means no changes were seen in external dose rates. (Friday)
Pressurized ion chamber dose rate trends are flat. That means no changes were seen in external dose rates. (Saturday)
Pressurized ion chamber dose rate trends are flat. That means no changes were seen in external dose rates. (Sunday)
Pressurized ion chamber dose rate trends are flat. That means no changes were seen in external dose rates. (Monday)

### Weather Patterns

Current weather patterns predict an optimum sampling location in southern Oregon or Northern California. This remains Current. MARCH 18 predictions show a slight southerly droop in the jet stream. IAEA/UN predict air mass ("plume") arrival also on March 18. We expect no significant radioactivity. 500 milli-bar, high level winds predict Japanese winds blowing towards Washington State and Oregon. This remains current.
Coastal dispersion will pull some of the air mass south to the California coast.
Coastal touchdown of plume prediction confirmed. (Friday)
Rain events across the entire coast will tend to remove radioactive materials from the air. We are collecting rain water to ensure we can show that rain-deposited activity is NOT of plant origin. (Saturday)4/4/2011 11:13:25 AM
Rain events will continue to remove "plume" contents. 3/20/2011 9:21:38 AM
Local weather patterns appear to be persistent for the next few days. Net effect is to channel winds south from the gulf of Alaska and push towards the coast.

### Helpful Conversions

International Units (SI)	Standard Units
Sv (Sievert, pronounced seevert)	100 rem or 100,000 mrem
1 mSv (milli-Sievert)	100 mrem (milli-rem)
1 $\mu$ Sv (micro-Sievert)	0.1 mrem (milli-rem)
1 $\mu$ Sv (micro-Sievert)	100 $\mu$ rem (micro-rem)

### Typical Site Boundary Dose Rates – Diablo Canyon

International Units (SI)	Standard Units
0.09 $\mu$ Sv (micro-Sievert)	9 $\mu$ rem or 0.009 milli-rem

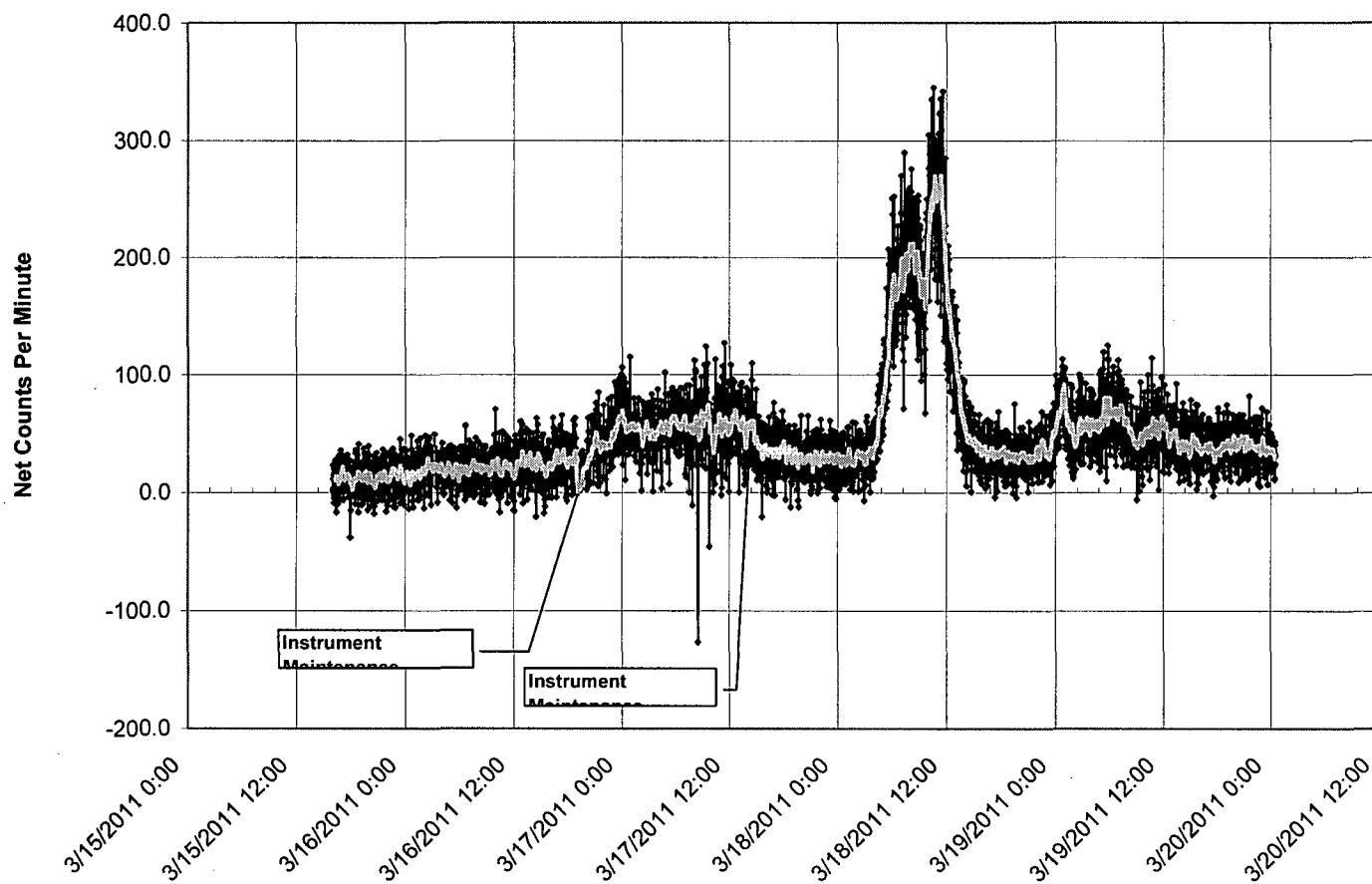
### Sample Protocol

- Continuous, trending air sampler deployed for monitoring external atmosphere.
- Daily radio-isotopic analysis of air sampler filter.
- Weekly off-site radio-isotopic analysis of environmental air sampler filters.
- Deposition sampling at Off-site Emergency Laboratory.

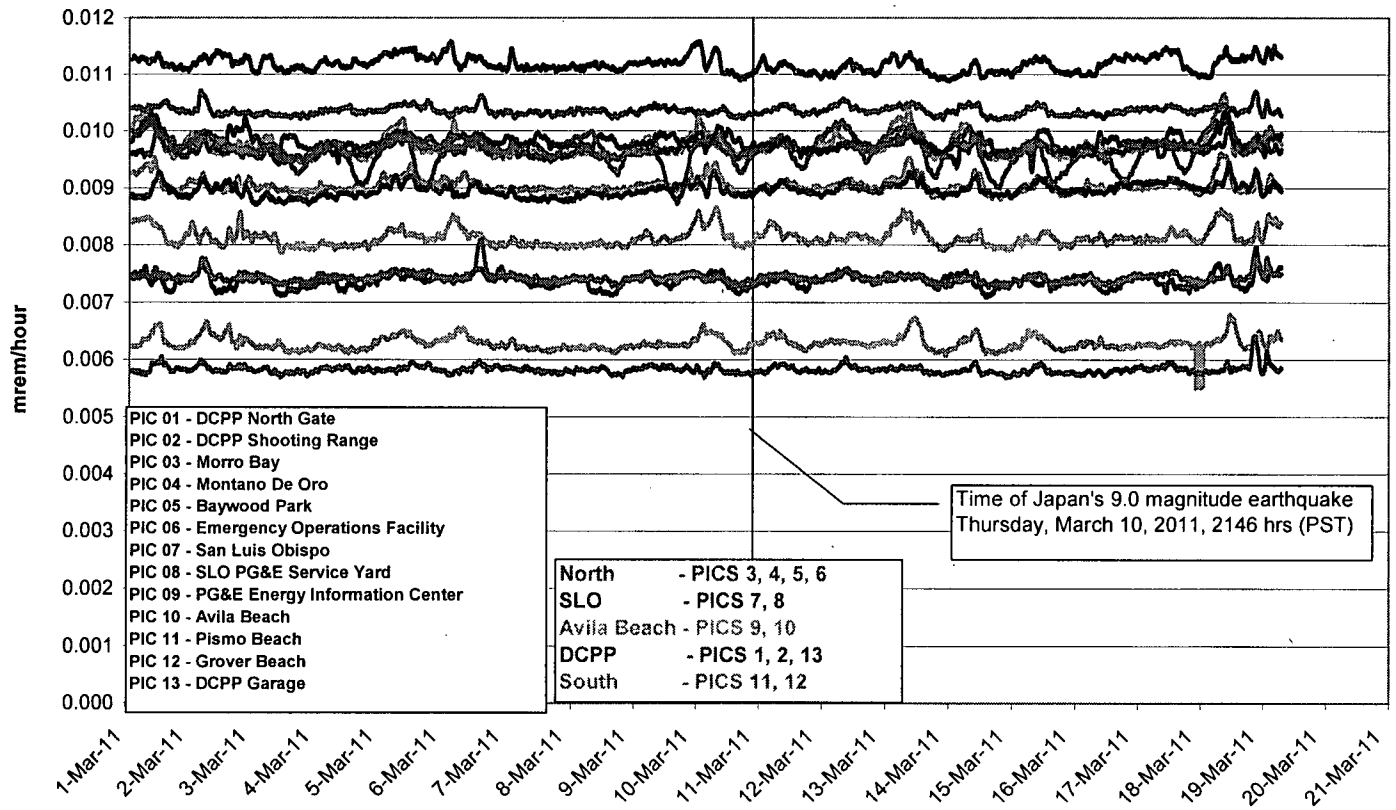
- Daily meteorology updates – PG&E meteorologist.
- Trending of PG&E network of high pressure ion chambers (low dose rate environmental monitors).

These pressurized ion chamber reading move up and down due to changes in temperature and barometric pressure. Higher barometric pressure drives the number down, lower barometric pressure drives the number up. Temperature drives the number up as it increases. The normal fluctuation in this area is 0.005 milli-rem per hour to 0.022 milli-rem per hour. The highest we've seen, due to an extreme low pressure cell, was 0.055 milli-rem per hour.

**AMS-4 Airborne Particulate Detector  
DCPP U1 100' Penetration Area Near Outside Grating**



# PG&E Pressurized Ion Chambers In San Luis Obispo County



Note: "Spikes" from the weekend are due to low pressure pushing ashore.



1885  
**From:** [Uhle, Jennifer](#)  
**To:** [Jaczko, Gregory](#)  
**Cc:** [Batkin, Joshua](#); [Coggins, Angela](#); [Borchardt, Bill](#); [Weber, Michael](#); [Virgilio, Martin](#); [Zimmerman, Roy](#); [Carpenter, Cynthia](#); [Skeen, David](#); [Ruland, William](#); [Hiland, Patrick](#); [Nakanishi, Tony](#); [Foster, Jack](#); [Monninger, John](#); [Casto, Chuck](#); [Cook, William](#); [Trapp, James](#); [Ulses, Anthony](#); [Devercelly, Richard](#); [Foggie, Kirk](#); [Smith, Brooke](#); [Johnson, Michael](#); [Wiggins, Jim](#); [Sheron, Brian](#); [Boger, Bruce](#); [Lewis, Robert](#); [Ordaz, Vonna](#); [Camper, Larry](#); [Miller, Charles](#); [Holahan, Patricia](#); [Dudes, Laura](#)  
**Date:** Monday, March 21, 2011 6:03:34 AM  
**Attachments:** [Unit4 SFP.doc](#)

---

Chairman,

This is in anticipation of your 8:00 phone call with the Deputies. We believe that Naval Reactors will raise this due to their concerns regarding Unit 4 spent fuel pool conditions. Representatives from RES will discuss these results with KAPL and Naval Reactors later today.

Thanks,

Jennifer

V/130

The NRC has performed detailed MELCOR analyses to evaluate the progression of a complete loss of inventory scenario in the Unit 4 spent fuel pool. The results indicate that since the inventory had been removed from the core over 100 days ago, the decay heat levels in the pool are sufficiently low that concrete ablation will not occur. Therefore, the melt would be retained in the spent fuel pool.

1002

**From:** Richards, Stuart  
**To:** Hogan, Rosemary; Pires, Jose; Murphy, Andrew  
**Cc:** Case, Michael  
**Subject:** Indian Point Letter on Seismic  
**Date:** Tuesday, March 22, 2011 3:27:39 PM  
**Attachments:** Tab B 3-18-11 Schneiderman 11-0133.pdf

---

See attached for information only - Stu



STATE OF NEW YORK  
OFFICE OF THE ATTORNEY GENERAL

ERIC T. SCHNEIDERMAN  
ATTORNEY GENERAL

DIVISION OF SOCIAL JUSTICE  
ENVIRONMENTAL PROTECTION BUREAU

March 18, 2011

Chairman Gregory B. Jaczko  
Commissioner Kristine L. Svinicki  
Commissioner George Apostolakis  
Commissioner William D. Magwood, IV  
Commissioner William C. Ostendorff  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555  
*Via electronic and U.S. Mail*

Re: Seismic Risk at Indian Point Nuclear Generating Station

Dear Chairman Jaczko and Commissioners Svinicki, Apostolakis, Magwood, and Ostendorff:

I am writing you as a nuclear crisis, initiated by the March 11 earthquake and subsequent tsunami in Northern Japan, is still unfolding. In addition to its potentially devastating impact on the people of Japan, this crisis serves as a graphic demonstration that nuclear power facilities in the U.S. may be vulnerable to seismic activity and experience catastrophic failures that compromise their ability to control and cool multiple nuclear reactors. Data from your staff analysis (GS-199), which demonstrates an increased risk of seismic activity at some nuclear power plants in the country add to my concern.

These factors underscore the importance of a fair, open, and full assessment of seismic risks in the relicensing of Indian Point.

New York State has raised concerns about seismic risk and other issues in relation to the relicensing of Indian Point with your staff on numerous occasions. At each turn, however, the NRC has refused to consider these critical issues in the relicensing review process.

As you know, the Indian Point nuclear power station in Buchanan, New York sits 24 miles from New York City. Of all the power reactors in the United States, the two operating Indian Point reactors have the highest surrounding population both within a 50-mile radius and a 10-mile radius. Seventeen million people live within 50 miles of these reactors. Indian Point Units 2 and 3, which initially came on line in 1973 and 1975, are currently the subject of an adjudicatory proceeding to extend their license by another 20 years (Unit 1 ceased generating in the 1970s).

03/21...To EDO/OGC for Direct Reply... Suspense date: April 4... Copy to: OGC, RF, SECY to Ack 11-0133...EDO should coordinate response with OGC...Commission is to review response prior to dispatch. 120 Broadway, 26th Fl. New York, N.Y. 10271-0332 • Phone (212) 416-8446 • Fax (212) 416-6007 • WWW.AG.NY.GOV

As the NRC has acknowledged, Indian Point Unit 1, which was authorized in 1956, was built prior to any specific requirement for earthquake protection. Although the NRC revoked the operating license for the Indian Point Unit 1 power reactor in 1980, many of Unit 1's system, structures, and components were conjoined to Unit 2 and Unit 3 and are still in use today. These aging Unit 1 systems, structures, and components were built to inferior seismic specifications, and Unit 2 and Unit 3's continued reliance on these systems today poses significant safety questions.

The NRC has consistently blocked consideration of New York's seismic concerns, as well as related concerns about population, emergency evacuation, fire safety, and site security.

In November of 2007, the Attorneys General of New York, Connecticut, Delaware, Illinois, Kentucky, and Vermont submitted a letter to the NRC which expressed the states' serious concerns about the NRC's failure to confront issues such as local seismic activity when deciding whether to renew the operating license of a nuclear power plant beyond its initial forty-year term. The states requested that the NRC expand relicensing criteria to include seismic analysis. On December 30, 2007, the NRC rejected this request.

The NRC also disregarded New York's "scoping" comments in 2007, which noted that the Indian Point operator's Environmental Report and Updated Final Safety Analysis Reports do not reflect seismic information developed after the early 1980s, and which asked the NRC to require the owner to revise those outdated documents. The NRC subsequently issued a Draft Environmental Impact Statement (DSEIS) based on this out-of-date information. The DSEIS failed to mention new information regarding seismic activity developed recently by the United States Geological Survey (USGS) that included the area around Indian Point or to account for the findings of Columbia's Lamont-Doherty Earth Observatory 2008 study. In fact, the NRC has not revised any of its Indian Point-related environmental analyses to take into account findings from this important independent study.

Perhaps most egregious is the NRC Staff's issuance of the Final Supplemental Environmental Impact Statement (FSEIS) for Indian Point, which it issued three months after Staff issued the GS-199 analysis on seismic activity. The FSEIS did not make any reference to the NRC's own findings of increased seismic risk at Indian Point.

In November of 2007, the state submitted two contentions in the license renewal proceeding arguing that the applicant's "Updated" Safety Evaluation Report and Environmental Report insufficiently analyzed alternatives for mitigation of severe accidents like earthquakes in that it (1) failed to include recent information regarding the type, frequency, and severity of potential earthquakes and (2) failed to include an analysis of mitigation measures which could reduce the effects of an earthquake damaging the parts of inactive Indian Point Unit 1 which are currently in use at Units 2 and 3. The NRC Staff opposed acceptance of these contentions, and the Atomic Safety and Licensing Board excluded them from consideration in the adjudicatory proceeding because, it said, the state did not suggest feasible alternatives to address risks posed by the new data, or estimate the cost of the increased margin of safety that would result from any

severe accident mitigation action. This burden is clearly not the public's to bear and these contentions were excluded in error.

Earlier this week, in testimony before the Senate Committee on Environment and Public Works, Chairman Jaczko stated the NRC's intention to conduct a review of the earthquake-related risks faced by nuclear power facilities operating in the central and eastern U.S. He stated that this review would take one to two years to complete, followed by a similar period of time to consider and implement mitigation measures. Indian Point Units 2 and 3 are currently the subject of a proceeding to extend their licenses by another 20 years – a proceeding in which the NRC has consistently ignored serious consideration of the risks that earthquakes and related issues pose to the Indian Point facility.

NRC should not contemplate relicensing Indian Point without first completing an open and public review of earthquake-related risks faced by this facility.

For this reason, the NRC must undertake an immediate, full, fair, and open assessment of all public health and safety risks that earthquakes pose to this facility, and provide the public an opportunity to fully review and comment on all phases of this review.

In addition, the NRC must take the following actions:

1. Promulgate an amendment to Part 54 and any other relevant regulations, which exclude seismicity analysis from the scope of safety review in relicensing proceedings, to specifically require the preparation of a public site-specific seismic analysis for the Indian Point and other reactors;
2. Open up the GS-199 seismic analysis proceeding for meaningful participation by states and the public so that all assumptions can be identified and tested and ensure that all information used in this proceeding is made available in the public record;
3. Address the risk posed by the Indian Point Unit 1 facilities, which share many common components and systems with the other Indian Point units, in a complete and transparent way;
4. Incorporate USGS findings and Columbia Lamont-Doherty's findings into the Indian Point FSEIS for license renewal and re-issue the document for additional public review and comment;
5. Make public immediately the Commission's plans, in their entirety, for addressing seismic risk at all three Indian Point plants; and
6. Maximize public involvement in the Commission's and the NRC Staff's actions regarding seismic risk at Indian Point.

Whether or not one supports the re-licensing of Indian Point Units 2 and 3, we can all agree that we must protect the health, safety, and environment of the nearly 20 million people

living in close proximity to the facility. Only through a full, fair, and open assessment of the earthquake and related security risks surrounding this uniquely-situated plant – one that precedes any consideration of approving an extension of the Indian Point facility for another 20 years – can we provide these fundamental protections.

I thank you for your attention this request, and please do not hesitate to contact me at any time if I can provide additional information or you would like discuss this matter in greater detail.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Schneiderman". The signature is fluid and cursive, with a long horizontal stroke at the end.

Eric T. Schneiderman  
Attorney General



**From:**  
**To:**

OST02 HOC

Abrams, Charlotte; Abu-Eid, Bobby; Adams, John; Afshar-Tous, Mugeh; Ahn, Hosung; Alemu, Bezakulu; Alter, Peter; Anderson, Brian; Anderson, James; Arribas-Colon, Maria; Ashkeboussi, Nima; Athey, George; Baker, Stephen; Ballam, Nick; Barnhurst, Daniel; Barr, Cynthia; Barss, Dan; Bazian, Samuel; Bens, Michelle; Bergman, Thomas; Berry, Rollie; Bhachu, Ujagar; Bloom, Steven; Blount, Tom; Boger, Bruce; Bonnette, Cassandra; Borchardt, Bill; Bowers, Anthony; Bowman, Gregory; Boyce, Tom (RES); Brandon, Lou; Brandt, Phillip; Brenner, Eliot; Brock, Kathryn; Brown, Cris; Brown, David; Brown, Eva; Brown, Frederick; Brown, Michael; Bukharin, Oleg; Burnell, Scott; Bush-Goddard, Stephanie; Campbell, Stephen; Camper, Larry; Carpenter, Cynthia; Carter, Mary; Case, Michael; Casto, Greg; Cecere, Bethany; Cervera, Margaret; Chazell, Russell; Chen, Yen-Ju; Cheok, Michael; Chokshi, Nilesh; Chowdhury, Prosanta; Circle, Jeff; Clement, Richard; Clinton, Rebecca; Coggins, Angela; Collins, Frank; Cool, Donald; Correia, Richard; Costa, Arlon; Couret, Ivonne; Crutchley, Mary Glenn; Cruz, Zahira; Cuadrado, Leira; Dacus, Eugene; DeCicco, Joseph; Decker, David; Dembek, Stephen; Devlin, Stephanie; Dimmick, Lisa; Doane, Margaret; Dorman, Dan; Dorsey, Cynthia; Dozier, Jerry; Drake, Margaret; Drogitis, Spiros; Dube, Donald; Dudes, Laura; Eads, Johnny; Emche, Danielle; English, Lance; Erlanger, Craig; Esmaili, Hossein; Figueroa, Roberto; Fiske, Jonathan; Flannery, Cindy; Floyd, Daphene; Foggie, Kirk; Foster, Jack; Fragoyannis, Nancy; Franovich, Rani; Frazier, Alan; Freshman, Steve; Fuller, Edward; Galletta, Thomas; Gambone, Kimberly; Gibson, Kathy; Giltner, Joseph; Gilmer, James; Gordon, Dennis; Gott, William; Grant, Jeffrey; Greenwood, Carol; Grimes, Kelly; Grobe, Jack; Gross, Allen; Gulla, Gerald; Hale, Jerry; Hardesty, Duane; Harrington, Holly; Harris, Tim; Hart, Ken; Hart, Michelle; Harvey, Brad; Hasselberg, Rick; Hayden, Elizabeth; Helton, Donald; Henderson, Karen; Hiland, Patrick; Holahan, Patricia; Holahan, Vincent; Holian, Brian; Howard, Tabitha; Huffert, Anthony; Hurd, Sapna; Huyck, Doug; Imboden, Andy; Isom, James; Jackson, Karen; Jacobson, Jeffrey; Jervey, Richard; Jessie, Janelle; Johnson, Michael; Jolicoeur, John; Jones, Andrea; Jones, Cynthia; Jones, Henry; Kahler, Carolyn; Kammerer, Annie; Karas, Rebecca; Kauffman, John; Khan, Omar; Kolb, Timothy; Kotzalas, Margie; Kowalczyk, Jeffrey; Kratchman, Jessica; Kugler, Andrew; Lamb, Christopher; Lane, John; Larson, Emily; Laur, Steven; LaVie, Steve; Lewis, Robert; Li, Yong; Lichtz, Taylor; Lising, Jason; Lombard, Mark; Lubinski, John; Lui, Christiana; Lukes, Kim; Lynch, Jeffery; Ma, John; Mamish, Nader; Manahan, Michelle; Marksberry, Don; Marshall, Jane; Masao, Nagai; Maupin, Cardelia; Mayros, Lauren; Mazaika, Michael; McConnell, Keith; McCoppin, Michael; McDermott, Brian; McGinty, Tim; McGovern, Denise; McIntyre, David; McMurtry, Anthony; Merritt, Christina; Meyer, Karen; Miller, Charles; Miller, Chris; Milligan, Patricia; Miranda, Samuel; Mohseni, Aby; Moore, Scott; Morlang, Gary; Morris, Scott; Mroz (Sahm), Sara; Munson, Clifford; Murray, Charles; Nerret, Amanda; Nguyen, Caroline; Norris, Michael; Norton, Charles; Ordaz, Vonna; Owens, Janice; Padovan, Mark; Parillo, John; Patel, Jay; Patel, Pravin; Patrick, Mark; Perin, Vanice; Pope, Tia; Powell, Amy; Purdy, Gary; Quinlan, Kevin; Raddatz, Michael; Ragland, Robert; Ralph, Melissa; Ramsey, Jack; Reed, Elizabeth; Reed, Sara; Reed, Wendy; Reis, Terrence; Resner, Mark; Riley (OCA), Timothy; Riner, Kelly; Rini, Brett; Robinson, Edward; Rodriguez-Luccioni, Hector; Roggenbrodt, William; Ropon, Kimberly; Rosenberg, Stacey; Ross-Lee, MaryJane; Roundtree, Amy; Ruland, William; Ryan, Michelle; Salay, Michael; Salter, Susan; Salus, Amy; Sanfilippo, Nathan; Scarbrough, Thomas; Schaperow, Jason; Schmidt, Duane; Schmidt, Rebecca; Schoenebeck, Greg; Schrader, Eric; Schwartzman, Jennifer; Seber, Dogan; See, Kenneth; Shane, Raean; Shea, James; Shepherd, Jill; Sheron, Brian; Skarda, Raymond; Skeen, David; Sloan, Scott; Smiroldo, Elizabeth; Smith, Brooke; Smith, Stacy; Smith, Theodore; Stahl, Eric; Stang, Annette; Steger (Tucci), Christine; Stieve, Alice; Stone, Rebecca; Stransky, Robert; Sturz, Fritz; Sullivan, Randy; Summers, Robert; Sun, Casper; Tappert, John; Tegeler, Bret; Temple, Jeffrey; Thaggard, Mark; Thomas, Eric; Thorp, John; Tiruneh, Nebiyu; Tobin, Jennifer; Trefethen, Jean; Tschiltz, Michael; Turtill, Richard; Uhle, Jennifer; Valencia, Sandra; Vaughn, James; Versluis, Robert; Vick, Lawrence; Virgilio, Martin; Virgilio, Rosetta; Ward, Leonard; Ward, William; Wastler, Sandra; Watson, Bruce; Webber, Robert; Weber, Michael; White, Bernard; Wiggins, Jim; Williams, Donna; Williams, Joseph; Williamson, Linda; Willis, Dori; Wimbush, Andrea; Wittick, Brian; Wray, John; Wright, Lisa (Gibney); Wright, Ned; Wunder, George; Young, Francis; Zimmerman, Jacob; Zimmerman, Roy

**Subject:** Japanese Earthquake ERO Staffing March 18-26, 2011  
**Date:** Tuesday, March 22, 2011 12:03:20 PM  
**Attachments:** Staffing Schedule March 18-26 JAPAN EARTHQUAKE - Different Format.docx

Good Afternoon,

Attached is the OPS Center watchbill for March 18-26<sup>th</sup>, you will be receiving the watchbill for the week of March 26-April 2<sup>nd</sup>, in the future. If you need to change the schedule, please send an email to OST02 HOC.

V/132

**MARCH 19 - 26**

**MARCH 19 - 26**

[illegible]

*mar*  
**From:** [Blount, Tom](#)  
**To:** [Compton, Makeeka](#); [Ruland, William](#); [Hiland, Patrick](#); [McGinty, Tim](#); [Casto, Greg](#); [Glitter, Joseph](#)  
**Subject:** TAC For Management supporting the Japanese event  
**Date:** Tuesday, March 22, 2011 9:32:18 AM

---

Don't know if you had this question, but I did....so I'm sharing the response I just found in my past e-mail...

Toss if duplicative...  
Thanks,  
Tom

*msir*  
**From:** LIA09 Hoc  
**Sent:** Monday, March 21, 2011 11:51 AM  
**To:** LIA08 Hoc; LIA06 Hoc  
**Cc:** Bailey, Marissa; Bergman, Thomas; Webber, Robert; Thaggard, Mark; Blount, Tom; Adams, John; Tschiltz, Michael; Glitter, Joseph; McGinty, Tim  
**Subject:** FW:

FYI

Liaison Team  
NRC Operations Center

*msir*  
**From:** Jones, Jackie  
**Sent:** Monday, March 21, 2011 11:40 AM  
**To:** LIA09 Hoc  
**Cc:** Lombard, Mark  
**Subject:** RE:

You would use the new TAC (ZG0061).

Thanks

Jacqueline Y. Jones  
Senior Program Analyst/Functional Lead  
Office of the Chief Financial Officer  
Financial Services Branch  
Time, Labor, and Payroll Services  
Office: 301-415-7384  
Fax: 301-415-6725  
Mail Stop T9E2  
[jackie.jones@nrc.gov](mailto:jackie.jones@nrc.gov)

*msir*  
**From:** LIA09 Hoc  
**Sent:** Monday, March 21, 2011 10:15 AM  
**To:** Jones, Jackie  
**Cc:** Lombard, Mark  
**Subject:**

V1123

Jackie,

A follow up to the HRMS email sent last Thursday. For SESers and BCs filling roles in the Operations Center, such as team directors, should we use the Japan TAC or just use our normal management TAC? Please reply to all so I have this on my personal email also.

Thank you,

Mark Lombard  
Liaison Team  
NRC Operations Center