

From: Trapp, James
To: Vivolo, Martin; Weber, Michael; Anderson, James; Moore, Gerald; Bowman, Gregory; Victor, Brian
Subject: FYI: Update - Diablo Canyon UE Following Tsunami Warning
Date: Friday, March 11, 2011 2:57:07 PM
Attachments: Document.doc

FYI

From: Braisted, Jonathan
Sent: Friday, March 11, 2011 2:12 PM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Trapp, James; Dricks, Victor; Uselding, Lara; Polickoski, James; Markley, Michael; Kammerer, Annie; Howell, Art; Farnholtz, Thomas; Vogel, Anton; Peck, Michael
Subject: Update - Diablo Canyon UE Following Tsunami Warning

All,

Update as of 1100 hours PST: The licensee remains in an unusual event for the tsunami warning. Both units are currently stable and operating at full power. The licensee has permitted the night shift to leave via the north access road. The south (Avila Beach) access road remains closed. The licensee has resumed normal watch of the intake building. The attached document shows a plot of predicted and observed water level versus time. The licensee anticipates the tsunami warning will be lifted around noon PST and would then exit the unusual event.

Regards,
Jon

Jonathan D. Braisted
Diablo Canyon Resident Office
U.S. Nuclear Regulatory Commission
(805) 595-2354 - Office
(805) 595-2355 - Fax

From: Peck, Michael
Sent: Friday, March 11, 2011 7:10 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara; Polickoski, James; Markley, Michael; Kammerer, Annie; Howell, Art; Farnholtz, Thomas; Vogel, Anton
Subject: FYI: Update - Diablo Canyon UE Following Tsunami Warning

Geoff,

(Update as of 0700 hours PST): The Tsunami is expected to arrive at Diablo Canyon at 0803 hours

BBB/1

(PST). The licensee anticipates about a 3 foot wave surge at the plant intake. The Shift Manager decided to maintain both units at full power during the event. The Shift Manager expects about 3 feet NPSH margin for the condenser circulating pumps and about 15 feet margin for the auxiliary saltwater pumps (ultimate heat sink). The Shift Manager has release all non-essential personnel from the site

County authorities are evacuating low lying coastal areas, including Port St. Luis, Avila Beach, parts of Moore Bay and Pismo Beach.

Michael Peck,
SRI

From: Peck, Michael

Sent: Friday, March 11, 2011 4:12 AM

To: Miller, Geoffrey

Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara

Subject: FYI: Diablo Canyon - UE Following Tsunami Warning

Geoff,

(Update as of 0400 hours PST): The Diablo Canyon Shift Manager declared an Unusual Event at 0123 hours (PST) on March 11, 2011, after receiving a Tsunami Warning from the West California Emergency Management Agency. The Tsunami Warning was generated after an estimated 8.9 M earthquake occurred off the eastern Japanese coast. The Pacific Gas and Electric Geosciences Department is monitoring reports from ocean buoys and Pacific locations as the Tsunami travels across the Pacific Ocean. Geosciences personnel have concluded that the Tsunami is unlikely to cause damage at either Diablo Canyon or Humboldt Bay facilities. The Shift Manager implemented the station casualty procedure for a Tsunami Warning. These actions included:

- Evacuation of personnel from the station inlet structure (except minimum security watch)
- Briefed control operators on the rapid shutdown procedure
- Established communications with the San Luis Obispo Emergency Operations Center
- Established Fire Brigade and local command center

The resident inceptors responded to the site following the declaration of the Unusual Event.

Michael Peck, Ph.D.
Senior Resident Inspector
Diablo Canyon Power Plant
Office: 805/595-2254

(b)(6)

From: Layton, Michael
To: Hansen, Helen; Ramsey, Jack
Cc: McDermott, Brian; Correia, Richard
Subject: FW: Earthquake and tsunami warnings
Date: Friday, March 11, 2011 9:55:45 AM

Request from our DHS Infrastructure Protection contacts. If you have some readily available info to send at your convenience, recognizing that you guys are up to your eyeballs right now. Please CC us when you send.

Craig.conklin@dhs.gov
Marc.brooks@dhs.gov
Ben.mayo@dhs.gov

As this we continue to monitor this evolving situation, we would greatly appreciate any Country and associated nuclear facility data sheets the NRC through its Office of International Programs, may have on hand for the affected geographical region or facilities, or any preliminary assessments on the U.S. Nuclear Sector.

Many thanks,

MCL

From: Layton, Michael
Sent: Friday, March 11, 2011 9:49 AM
To: 'Crai.conklin@dhs.gov'; 'marc.brooks@dhs.gov'; 'Ben.mayo@dhs.gov'
Cc: Erlanger, Craig; Biddison, John; Harris, Paul; Mamish, Nader; Correia, Richard; Ramsey, Jack; McDermott, Brian
Subject: RE: Earthquake and tsunami warnings

Gents,

We'll work to get information to you. Our Region IV office has been in contact with NPPs on the west coast and the forecasted wave is not expected to cause any difficulties with plant operations. Diablo Canyon NPP in central California is the principal NPP that could be impacted. There does not appear to be an impact to materials licensee on the west coast or Alaska.

Most of the Japanese delegation that attended our Regulatory Information Conference this week is still in the area and we're making facilities available to them as they need.

Give me a call if you need additional info.

MCL

U.S. Nuclear Regulatory Commission
Michael Layton, Deputy Director

BBB/2

Division of Security Policy
Office of Nuclear Security and Incident Response

Office: 301.415.7440

(b)(6)

Fax: 301.415.5373

From: Harris, Paul
Sent: Friday, March 11, 2011 9:34 AM
To: Layton, Michael
Cc: Erlanger, Craig; Biddison, John
Subject: FW: Earthquake and tsunami warnings

Mike, as you requested. Ben Mayo is a staffer dude.
I recommend you email to: You might want to email to:
Craig.conklin@dhs.gov
Marc.brooks@dhs.gov
Ben.mayo@dhs.gov

John Biddison is WAH today and can answer any of your detailed questions.

R.
Paul

Paul Harris, Senior Program Manager
10 CFR Part 26, Fitness for Duty (Drug & Alcohol Testing)
Office of Nuclear Security and Incident Response
U.S. Nuclear Regulatory Commission
(w) 301-415-1169

(b)(6)

From: Biddison, John
Sent: Friday, March 11, 2011 9:10 AM
To: Harris, Paul
Subject: FW: Earthquake and tsunami warnings

Paul,

Please see the below request from DHS. My feeling is that we should put this into the Ops Center process, but please let me know if we have any other thoughts on the matter.

Thanks,
John B.

(b)(6)

From: Mayo, Ben [mailto:Ben.Mayo@dhs.gov]

Sent: Friday, March 11, 2011 9:01 AM
To: Biddison, John; Nerret, Amanda
Cc: Liang, Rachel
Subject: Earthquake and tsunami warnings

Good morning, John and Mandy -

As you likely know, on March 11, 2011, at approximately 0125 EST, the US Geological Survey reported a magnitude 8.8 earthquake hit 80 miles offshore Northeastern Japan. The Pacific Tsunami Warning Center in Hawaii issued tsunami warnings for Japan, Russia, Marcus Island, North Marianas, Guam, Wake Island, Taiwan, Yap, Philippines, Marshall Island, Belau, Midway Island, Belau, Midway Island, Pohnpei, Chuuk, Kosrae, Indonesia, Papua New Guinea, Nauru, Hawaii, Johnston Island, Solomon Island, Kiribati, Howland-baker, Tuvalu, Palmyra Island, Vanuatu, Tokelau, Jarvis Island, Wallis-Futuna, Samoa, American Samoa, Cook Islands, Niue, Australia, Fiji, New Caledonia, Tonga, Mexico, Kermadec Island, French Polynesia, New Zealand, Pitcairn, Guatemala, El Salvador, Costa Rica, Nicaragua, Antarctica, Panama, Honduras, Chile, Ecuador, Colombia, and Peru.

The following areas may expect tsunami arrival: Marianas Islands - 0353 EST; Guam - 0409 EST; Midway Island - 0526 EST; Alaska - 0420-1006; Hawaii - 0759 EST; Washington - 1018 EST; Oregon - 1023 EST; California - 1027-1154 EST.

As this we continue to monitor this evolving situation, we would greatly appreciate any Country and associated nuclear facility data sheets the NRC through its Office of International Programs, may have on hand for the affected geographical region or facilities, or any preliminary assessments on the U.S. Nuclear Sector.

Respectfully,
Ben Mayo

Benjamin Mayo
SSA EMO—Nuclear Branch
Office of Infrastructure Protection
Department of Homeland Security

(b)(6)

ben.mayo@dhs.gov

Siu, Nathan

From: Siu, Nathan
Sent: Friday, March 11, 2011 7:53 AM
To: Coyne, Kevin; Demoss, Gary; Beasley, Benjamin; Salley, MarkHenry; Coe, Doug; Stutzke, Martin; Hyslop, JS
Subject: FW: OECD/NEA Secretariat Update - Japanese Seismic Event: Evacuation order to residents
Attachments: NPP_Japan_map2011.pdf

Note the reference to the turbine building fire in the first email. Seismically induced?

From: Greg.LAMARRE@oecd.org [mailto:Greg.LAMARRE@oecd.org]

Sent: Friday, March 11, 2011 7:49 AM

To: luc.demarneffe@gdfsuez.com; martin.zimmermann@psi.ch; hollo@nubiki.hu; dave.shepherd@hse.gsi.gov.uk; eric.van.walle@sckcen.be; aysun.yucel@taek.gov.tr; tanaka-nobuo@jnes.go.jp; gernot.thuma@grs.de; jan.borak@enel.com; vc@aerb.gov.in; m.el-shanawany@iaea.org; serge.vigne@ec.europa.eu; nuklearkoordination@bmlfuw.gv.at; herter@mpa.uni-stuttgart.de; marc.dubois@belv.be; nakamura-koichiro1@meti.go.jp; s.samaddar@iaea.org; vivekb@barc.gov.in; hklonk@bfs.de; marja-leena.jarvinen@stuk.fi; michel.bieth@ec.europa.eu; claude.faidy@edf.fr; nicolas.ile@cea.fr; rauno.rintamaa@vtt.fi; zda@ujv.cz; jsc@csn.es; Murphy, Andrew; wicheis@nrg.eu; maly@egp.cz; jeyang@kaeri.re.kr; marc.petit@irsn.fr; wada.yusaku@jaea.go.jp; ali.djaoudi@gdfsuez.com; shibata-satoru@jnes.go.jp; alessandro.martelli@enea.it; laurent-jacques.foucher@irsn.fr; (b)(6) shikawa-masaaki@jnes.go.jp; takeshima-kikuo@jnes.go.jp; cardellicchio@sogin.it; k211ckk@kins.re.kr; ryh@kins.re.kr; tony.mills@british-energy.com; suyama.kenya@jaea.go.jp; tlm3@wanadoo.fr; didier.combescure@f4e.europa.eu; borut.mavko@ijs.si; michel.hugon@ec.europa.eu; corsi@casaccia.enea.it; par.lansaker@vattenfall.com; john.macfarlane@edf-energy.com; pel@ujv.cz; louis.vanderwiel@minvrom.nl; asmolov@nsi.kiae.ru; tothi@aeki.kfki.hu; jean-michel.evrard@irsn.fr; hofmayer@bni.gov; hdkim@kaeri.re.kr; kasahara-fumio@jnes.go.jp; rafal.frac@oecd-poland.org; george.solomos@jrc.ec.europa.eu; sychoi@kaeri.re.kr; cillik@vuje.sk; young@kins.re.kr; manfred.schrauben@fanc.fgov.be; nilgun.gerceker@taek.gov.tr; panagiotis.manolatos@ec.europa.eu; frantisek.pazdera@cez.cz; avk@gan.ru; vrachkov@ippe.ru; urs.bumann@ensi.ch; robert.owen@british-energy.com; dietmar.kajkhof@ensi.ch; isabelle.devol-brown@irsn.fr; joh@ujv.cz; makino@tepcoco.uk; guenaél.lecann@arpsa.gov.au; yamazaki-hiroaki@jnes.go.jp; koyama-masakuni@jnes.go.jp; Sheron, Brian; helmut.schulz.krt@t-online.de; pbl@ibrae.ac.ru; bjorn.brickstad@ssm.se; lars.bennemo@ssm.se; georges.van-goethem@ec.europa.eu; jikim@kaeri.re.kr; salih.guentay@p.si.ch; ballj@aecl.ca; whitea@aecl.ca; jkpark1@kaeri.re.kr; motohashi-shohei@jnes.go.jp; xavier.pouget-abadie@edf.fr; a.chigama@iaea.org; pierre.nocture@areva.com; pekka.valikangas@stuk.fi; Silvio.Sperbeck@grs.de; giuseppe.pino@apat.it; fuketa.toyoshi@jaea.go.jp; stefan.cepce@ujd.gov.sk; katonat@npp.hu; bruno.barthelet@edf.fr; sangk@kins.re.kr; atle.valseth@ife.no; elgoharym@aecl.ca; giovanni.bava@isprambiente.it; l.francia@unesa.es; benjamin.stanford@oecd.org; daniel.tasset@asn.fr; sabhardwaj@npcil.co.in; (b)(6) ussi.solin@vtt.fi; andrei.blahoianu@cnsccsn.gc.ca; gustaf.lowenhielm@ssm.se; james.lyons@nrc.gov; k063cys@kins.re.kr; pierre.labbe@edf.fr; arne.eriksson@jrc.nl; Inandreeva@rosatom.ru; shinichi.higuchi@cao.go.jp; uchiyama-yuichi@jnes.go.jp; forni@enea.it; rhonda.evans@arpsa.gov.au; vincent.deledicque@belv.be; k-yoshid@mext.go.jp; kanda-tadao@meti.go.jp;

BBB/3

pieter.degelder@belv.be; soda.kunihisa@jaea.go.jp; rainer.rantala@stuk.fi; len.creswell@hse.gsi.gov.uk; kanno-masanori@jnes.go.jp; p.entti.varpasuo@fortum.com; richard.reister@nuclear.energy.gov; jovica.riznic@cnsccsn.gc.ca; bernard.fourest@edf.fr; catherine.berge-thierry@cea.fr; marta.ziakova@ujd.gov.sk; lennart.carlsson@ssm.se; rob.jansen@minvrom.nl; junekl@uam.cz; ffmr@csn.es; timo.vanttola@vtt.fi; fosco.bianchi@bologna.enea.it; swaller@cnsns.gob.mx; reinhard.zipper@grs.de; eberhard.roos@mpa.uni-stuttgart.de; paul.harrop@hse.gsi.gov.uk; michael.maqua@grs.de; hirano.masashi@jaea.go.jp; Chokshi, Niles; marc.deffrennes@ec.europa.eu; paolo.contri@enel.com; gado@aeki.kfki.hu; an.wertelaers@fanc.fgov.be; imrich.krajmer@enel.com; michel.desmet@gdfeuz.com; wolfgang.hilden@ec.europa.eu; izumi@bosai.go.jp; alejandro.huerta@oecd.org; khrennikov@secnrs.ru; hre@ujv.cz; lutz.lindhorst@minvrom.nl; gerry.frappier@cnsccsn.gc.ca; carlo.vitanza@hrp.no; yann.kayser@cea.fr; hshibata@iis.u-tokyo.ac.jp; juergen.sievers@grs.de; keijo.valtonen@stuk.fi; jmdl@csn.es; kostas.xanthopoulos@ssm.se; suzuki.masahide@jaea.go.jp; karol.janko@ujd.gov.sk; pyw@kins.e.kr; hrazsky@vuje.sk; jgf@madrid.idom.es; pis@ujv.cz; ccl@csn.es; michel.durin@cea.fr; akasaka@mext.go.jp; rob.vantol@minvrom.nl; michel.schwarz@irsn.fr; mathieu.rambach@irsn.fr; Sangimino, Donna-Marie; krz@ujv.cz; Siu, Nathan; janosi@hu.inter.net; Tregoning, Robert; jacques.repussard@irsn.fr; je@cnsns.gob.mx; soaresjc@ci.fc.ul.pt; corine.piedagnel@irsn.fr; lucian.biro@cncan.ro; emmanuel.viallet@edf.fr; jean-marc.cavedon@psi.ch; Ali, Syed; kuznetsov_mv@vosafety.ru; ilie.petre-lazar@edf.fr; reiner.mallaender@ensi.ch; tchienminh.tang@belv.be; vladimir_magula@ibok.sk; alexandra.brasat@amb-roumanie.fr; frank-peter.weiss@grs.de

Subject: OECD/NEA Secretariat Update - Japanese Seismic Event: Evacuation order to residents

Dear CSNI, WGIAGE, WGIAGE Seismic Sub-Group Members,

Please find below a message on the current situation regarding the state of the nuclear industry in Japan following the seismic event.

Best Regards,
Greg

From: Akihiro YAMAMOTO [mailto:a-yamamoto@houshasen.tsuruga.fukui.jp]
Sent: Friday, March 11, 2011 13:41
To: 'Akihiro YAMAMOTO'; GAUVAIN Jean, NEA/SURN
Cc: REIG Javier, NEA/SURN; ECHAVARRI Luis, NEA; YOSHIMURA Uichiro, NEA/SURN; GAS Serge, NEA/RE; BREEST Axel, NEA/SURN; MAUNY Elisabeth, NEA/SURN; LAMARRE Greg, NEA/SURN; REHACEK Radomir, NEA/SURN; HUERTA Alejandro, NEA/SURN; JACKSON Diane, NEA/SURN; GAUVAIN Jean, NEA/SURN; NAKOSKI John, NEA/SURN; GRESS Philippe, NEA/SURN; BURKHART Lawrence, NEA/SURN; 'Carlo Vitanza'; AMRI Abdallah, NEA/SURN
Subject: [Yama] Evacuation order to residents

The people of a town near Fukushima Daiichi Units (Within 2 km) were ordered to evacuate their homes

I was mentioned previous emails with regard to ECCS but I think this is very strange that ECCS are really being driven even diesel generators has failed to start.

Please correct that following plants are just in the emergency mode and not in the ECCS mode.

Fukushima 1-1 - State of emergency
Fukushima 1-2 - Call off the emergency
Fukushima 1-3 - State of emergency
Fukushima 2-1 - State of emergency
Fukushima 2-2 - State of emergency
Fukushima 2-4 - State of emergency

Yama

+++++
Akihiro YAMAMOTO

Ageing Management Specialist,
Nuclear Safety Measurement Division
Fukui Prefectural Government

Telephone: +81 (0) 776 20 0314

E-mail: a-yamamoto@houshasen.tsuruga.fukui.jp
+++++

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

Sent: Friday, March 11, 2011 8:00 PM

To: 'Akihiro YAMAMOTO'; Jean.GAUVAIN@oecd.org

Cc: Javier.REIG@oecd.org; Luis.ECHAVARRI@oecd.org; Uichiro.YOSHIMURA@oecd.org; Serge.GAS@oecd.org;
Axel.BREEST@oecd.org; Elisabeth.MAUNY@oecd.org; Greg.LAMARRE@oecd.org; Radomir.REHACEK@oecd.org;
Alejandro.HUERTA@oecd.org; Diane.JACKSON@oecd.org; Jean.GAUVAIN@oecd.org; John.NAKOSKI@oecd.org;
Philippe.GRESS@oecd.org; Lawrence.BURKHART@oecd.org; 'Carlo Vitanza'; Abdallah.amri@oecd.org

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

NISA is now holding a press conference.

Fukushima 1-1 (ECCS mode)
Fukushima 1-2 (ECCS mode) - Call off the emergency
Fukushima 1-3 (ECCS mode)

Fukushima 2-1 (ECCS mode)

The problem is that they can't monitor water injection (ECCS).
It might be a problem of the monitoring system.

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

Yama

Akihiro YAMAMOTO

Accident Management Specialist

Nuclear Safety Measurement Division

Fukui Prefectural Government

Telephone: +81 (0) 776 20 0314

E-mail: a-yamamoto@houshasen.tsuruga.fukui.jp

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

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

To: 'Jean.GAUVAIN@oecd.org'

Cc: 'Javier.REIG@oecd.org'; 'Luis.ECHAVARRI@oecd.org'; 'Uichiro.YOSHIMURA@oecd.org'; 'Lydie.GUYOT@oecd.org';
'Marie-Laure.PEYRAT@oecd.org'; 'Serge.GAS@oecd.org'; 'Axel.BREEST@oecd.org'; 'Elisabeth.MAUNY@oecd.org';
'Greg.LAMARRE@oecd.org'; 'Radomir.REHACEK@oecd.org'; 'Alejandro.HUERTA@oecd.org'; 'Diane.JACKSON@oecd.org';
'Jean.GAUVAIN@oecd.org'; 'John.NAKOSKI@oecd.org'; 'Philippe.GRESS@oecd.org'; 'Lawrence.BURKHART@oecd.org';
'Nicolina.IANNOLO@oecd.org'; 'Roopa.CHAUHAN@oecd.org'; 'christele.tephanympania@oecd.org';
'Aileen.LITTLE@oecd.org'; 'Carlo Vitanza'; 'Abdallah.amri@oecd.org'

Subject: [Yama] Situation now - ECCS mode

Dear all,

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

Fukushima 1-1

Fukushima 1-2

Fukushima 1-3

Fukushima 2-1 ECCS mode now

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

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

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

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

Yama

+++++

Akihiro YAMAMOTO

Ageing Management Specialist

Nuclear Safety Management Division

Fukui Prefectural Government

Telephone: +81 (0) 776 20 0314

E-mail: a-yamamoto@houshasen.tsuruga.fukui

+++++

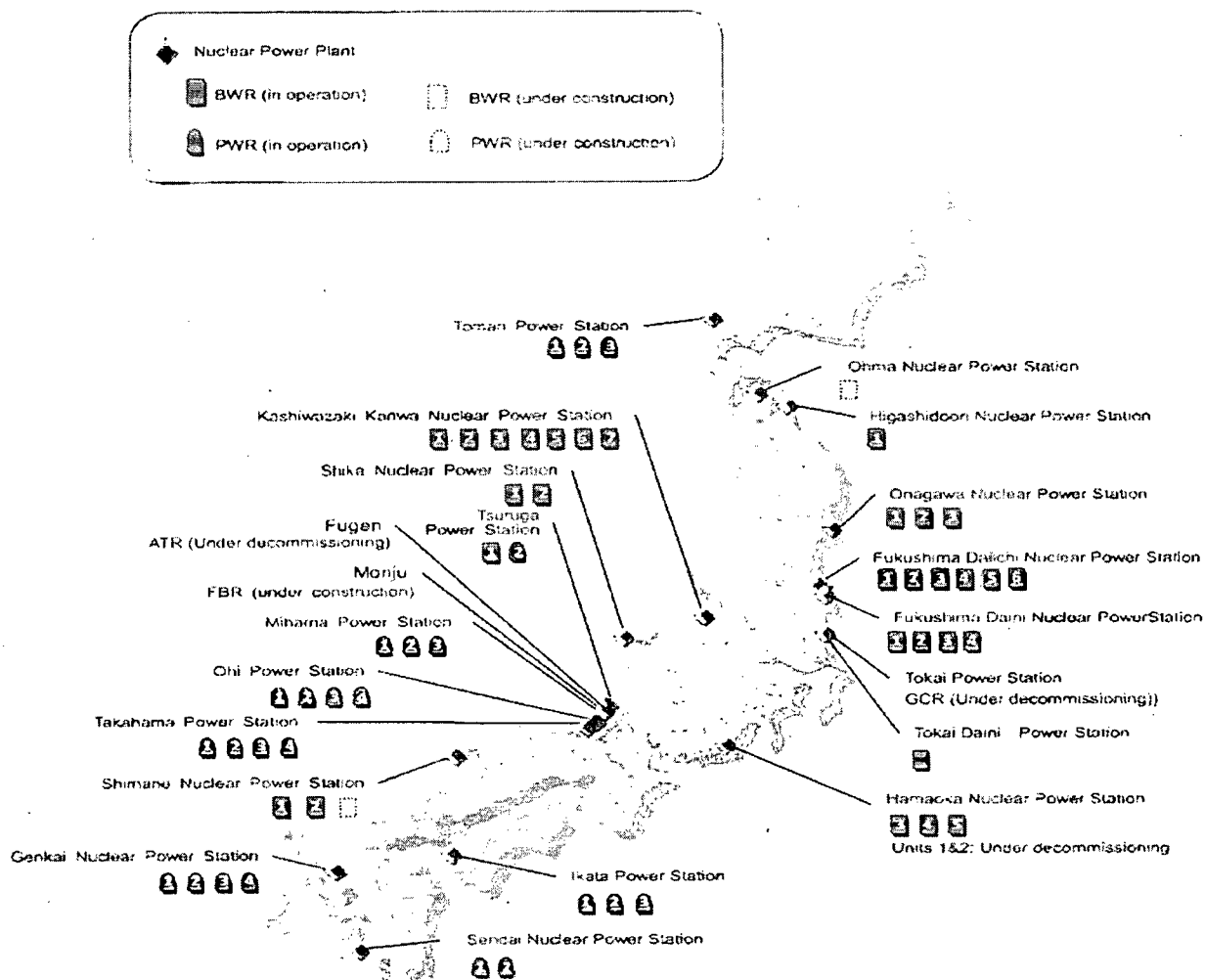


Fig. A-2 Locations of Nuclear Installations

Wood, Jeffery

From: Ibarra, Jose
Sent: Wednesday, March 23, 2011 12:49 PM
To: RES_DRA
Subject: Urgent FOIA Request on Japanese Event
Attachments: FOIA Request from AP.PDF; How to Respond to a FOIA Request.pdf

Follow Up Flag: Follow up
Flag Status: Completed

DRA Staff,

We have been tasked with a FOIA Request from the Associated Press (AP) regarding internal communications within the NRC pertaining to the Japanese nuclear incidents at the Fukushima Dai-ichi, Fukushima Daini, and Onagawa power plants, consequence of the earthquake and tsunami events on March 11, 2011. RES has tried unsuccessfully to postpone the response. Therefore, we still need to respond to the March 29 due date.

As detailed in the letter from AP, *"the communications should include emails, faxes, and written correspondence between the commission's chairman, its four commissioners, their staffs, the public affairs team, and employees of other offices such as the Office of Nuclear Reactor Regulation, the Office of Nuclear Security and Incident Response, and the NRC's 24-hour Operations Center"*. See the attached the Associated Press request. This request covers a time frame from March 11, 2011 through March 16, 2011, when the request was issued.

Please provide hard copies of any records that meet the above criteria to Jose Ibarra by COB on Tuesday, March 29th. In addition, please identify those records that may contain information you believe should not be released to the public per the exemption instructions detailed in step 6 of the attached document on *"How to Respond to a FOIA Request"* (e.g., contains sensitive, proprietary, pre-decisional, or personal information).

The 3/29 due date is to provide sufficient time for screening and redacting information that meet FOIA exemption criteria for withholding, so that we can still meet our office due date of 3/30 for providing the records to the FOIA staff. Use TAC code KC0373 for time spent on this FOIA response.

Please let me know if you have any questions, comments, or concerns related to this request.

Thanks. Jose

From: Virgilio, Martin
To: (b)(6)
Subject: RE: May trip
Date: Friday, March 11, 2011 8:49:06 AM

You are welcome to join me

From: Cianci, Sandra
To: Virgilio, Martin
Sent: Fri Mar 11 08:04:53 2011
Subject: RE: May trip

Scheduled for 1pm on Monday.

Sandy Cianci

*Administrative Assistant to Marty Virgilio, DEDR
Office of the Executive Director for Operations
O-17 H13
301-415-1714
sandra.cianci@nrc.gov*

From: Virgilio, Martin
Sent: Thursday, March 10, 2011 5:25 PM
To: Cianci, Sandra
Subject: May trip

Sandy

Please see if you can set up a short meeting for me with Mary Carter Monday or Tuesday of next week

Marty

BBB/4

From: ~~Eric Leeds~~
To: ~~Yama, Maria~~
Subject: Fw: [Yama] Situation now - Japan NPPs - ECCS mode
Date: Friday, March 11, 2011 5:10:37 PM

Scroll down to note "ECCS mode"

From: Sharon, Brian
To: Weber, Michael; Martin Brechbeil; (b)(6); Leeds, Eric; Borchardt, Bill; Wiggins, Jim; Haney, Catherine; Miller, Charles; Dean, Bill; McCree, Victor; Satorius, Mark; Collins, Elmo
Cc: Case, Michael; Richards, Stuart
Sent: Fri Mar 11 07:21:15 2011
Subject: FW: [Yama] Situation now - Japan NPPs - ECCS mode

FYI.

From: Lawrence.BURKHART@oecd.org [mailto:Lawrence.BURKHART@oecd.org]
Sent: Friday, March 11, 2011 5:51 AM
To: Leeds, Eric; Regan, Christopher; Sharon, Brian; Sangimino, Donna-Marie; Doane, Margaret; Cullingford, Michael; Johnson, Michael; Uhle, Jennifer; Schwartzman, Jennifer
Cc: Holahan, Gary; Williams, Donna; John.NAKOSKI@oecd.org; Diane.JACKSON@oecd.org
Subject: FW: [Yama] Situation now - Japan NPPs - ECCS mode

Dear all,

Greetings from Paris. I'm sure you've heard about the earthquake in Japan and I'm sure you may have your own information sources. But just wanted to pass on this is an email from a colleague (who used to work at NEA but recently returned to Japan).

Apparently all of the 15 Japanese Nuclear Power Plants shutdown successfully but there are some issues with Diesel Generators operating properly at the plants listed below

I will send more info if it is relevant and if you would like.

Very Best Regards Larry

From: Akihiro YAMAMOTO [mailto:a-yamamoto@houshasen.tsuruga.fukui.jp]
Sent: Friday, March 11, 2011 11:30
To: GAUVAIN Jean, NEA/SURN
Cc: REIG Javier, NEA/SURN; ECHAVARRI Luis, NEA; YOSHIMURA Uichiro, NEA/SURN; GUYOT Lydie, NEA; PEYRAT Marie-Laure, NEA/SURN; GAS Serge, NEA/RE; BREEST Axel, NEA/SURN; MAUNY Elisabeth, NEA/SURN; LAMARRE Greg, NEA/SURN; REHACEK Radomir, NEA/SURN; HUERTA Alejandro, NEA/SURN; JACKSON Diane, NEA/SURN; GAUVAIN Jean, NEA/SURN; NAKOSKI John, NEA/SURN; GRESS Philippe, NEA/SURN; BURKHART Lawrence, NEA/SURN; IANNOLO Nicolina, NEA/SURN; CHAUHAN Rocco, DAF/COMP; christele.tephanympnia@oecd.org; LITTLE Aileen, NEA/ADMI; 'Carlo Vitanza'; AMRI Abdallah; NEA/SURN
Subject: [Yama] Situation now - ECCS mode

Dear all,

BBB/6

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

Fukushima 1-1

Fukushima 1-2

Fukushima 1-3

Fukushima 2-1 (ECCS mode now)

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

There is a fire from turbine building (81 floor) at Onagawa NPP unit 1 but the fire fighting was completely succeeded.

<http://www.yomaiun.co.jp/dyn/naionak/20110311cy01.htm>

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

Yama

Akihiro YAMAMOTO

Telephone: +81 (0) 776 20 0314

E-mail: akiyama@tepcos.co.jp

From: Weber, Michael
To: McDermott, Brian
Cc: Virgilio, Martin; Collins, Einar; Russell, Art; Metzke, David
Subject: RESPONSE - Briefing This Morning at 0800
Date: Friday, March 11, 2011 5:45:57 AM

Thanks. I heard on the radio (WTOG) this morning that the coast of California is only under an advisory, not a tsunami warning. That means that they may experience stronger currents than normal, but no specific wave is expected. Alaska and Hawaii have received tsunami warnings.

From: McDermott, Brian
Sent: Friday, March 11, 2011 5:26 AM
To: Weber, Michael; Virgilio, Martin
Subject: Briefing This Morning at 0800

Brian

Brian McDermott
301-415-7475 (direct)

(b)(6)

From: HOO Hoc
To: McDermott, Brian
Sent: Fri Mar 11 05:18:43 2011
Subject: RE: HOO HIGHLIGHT - DIABLO CANYON UNUSUAL EVENT

Brian,

Region IV will conduct a briefing regarding projections at 0800 EST. If you'd like to participate just call in here. We have no current projections on size of any tidal wave on the West Coast.

Joe O'Hara

From: McDermott, Brian
Sent: Friday, March 11, 2011 5:11 AM
To: HOO Hoc
Cc: Gott, William; Morris, Scott
Subject: Re: HOO HIGHLIGHT - DIABLO CANYON UNUSUAL EVENT

Any info on projected size of tsunami and the Diablo design basis?

Brian

Brian McDermott
301-415-7475 (direct)

(b)(6)

From: HOO Hoc
To: HOO Hoc
Sent: Fri Mar 11 05:09:33 2011

BOB/7

Subject: HOO HIGHLIGHT - DIABLO CANYON UNUSUAL EVENT

Diablo Canyon declared a Notice of Unusual Event at 0123 PST due to a Tsunami Warning for the coastal areas of California as a result of a 8.9 magnitude earthquake off the coast of Japan. The Agency remains in the NORMAL response mode as of 0452 EST.

Joe O'Hara

Headquarters Operations Officer

U.S. Nuclear Regulatory Commission

Phone: 301-816-5100

Fax: 301-816-5151

email: hoo.hor@nrc.gov

secure e-mail: hoo1@nrc.gov



From: Trapp, James
To: Vraglio, Mark; Weyer, Michael; Mertes, David; Sanfilippo, Nathan; Anderson, James; Bowman, Gregory
Subject: FW: Update - Diablo Canyon UE Following Tsunami Warning
Date: Friday, March 11, 2011 10:11:29 AM

FYI

From: Peck, Michael
Sent: Friday, March 11, 2011 10:10 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara; Polickoski, James; Markley, Michael; Kammerer, Annie; Howell, Art; Farnholtz, Thomas; Vogel, Anton
Subject: FYI: Update - Diablo Canyon UE Following Tsunami Warning

Geoff,

(Update as of 0700 hours PST): The Tsunami is expected to arrive at Diablo Canyon at 0803 hours (PST). The licensee anticipates about a 3 foot wave surge at the plant intake. The Shift Manager decided to maintain both units at full power during the event. The Shift Manager expects about 3 feet NPSH margin for the condenser circulating pumps and about 15 feet margin for the auxiliary saltwater pumps (ultimate heat sink). The Shift Manager has release all non-essential personnel from the site.

County authorities are evacuating low lying coastal areas, including Port St. Luis, Avila Beach, parts of Moore Bay and Pismo Beach.

Michael Peck,
SRI

From: Peck, Michael
Sent: Friday, March 11, 2011 4:12 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara
Subject: FYI: Diablo Canyon - UE Following Tsunami Warning

Geoff,

(Update as of 0400 hours PST): The Diablo Canyon Shift Manager declared an Unusual Event at 0123 hours (PST) on March 11, 2011, after receiving a Tsunami Warning from the West California Emergency Management Agency. The Tsunami Warning was generated after an estimated 8.9 M earthquake occurred off the eastern Japanese coast. The Pacific Gas and Electric Geosciences Department is monitoring reports from ocean buoys and Pacific locations as the Tsunami travels across the Pacific Ocean. Geosciences personnel have concluded that the Tsunami is unlikely to cause damage at either Diablo Canyon or Humboldt Bay facilities. The Shift Manager implemented the station casualty procedure for a Tsunami Warning. These actions included:

- Evacuation of personnel from the station inlet structure (except minimum security watch)
- Briefed control operators on the rapid shutdown procedure
- Established communications with the San Luis Obispo Emergency Operations Center
- Established Fire Brigade and local command center

BBB/8

The resident inceptors responded to the site following the declaration of the Unusual Event.

Michael Peck, Ph.D.
Senior Resident Inspector
Diablo Canyon Power Plant
Office: 805/895-7354

(b)(6)

From: [Brian Grimes](#)
To: [Matsuo, Toshihiro](#); [Kumagai, Y](#); [Hijikata, Katsuichirou](#)
Subject: FW:
Date: Friday, March 11, 2011 12:46:54 PM

FYI, I sent the message below to TEPCO contacts in Japan.

Best regards,

Brian

Brian Grimes, Senior Executive Consultant
Numark Associates, Inc.
1220 19th St. NW, Suite 500
Washington, DC 20036
Numark Tel. 202-466-2700

(b)(6)
Web: www.numarkassoc.com

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From: Brian Grimes
Sent: Friday, March 11, 2011 9:22 AM
To: matsuo.toshihiro@tepcoco.jp; kumagai.y@tepcoco.jp; hijikata.katsuichirou@tepcoco.jp; mizutani.hiroyuki@tepcoco.jp; muto.sakae@tepcoco.jp
Cc: Neil Numark
Subject:

Dear TEPCO colleagues,

My best wishes for your effective response to the earthquake.

I thought I would inform you of one aspect of the safety review of the Oyster Creek plant in 1969 related to emergency cooling.

One of the backup methods for delivering coolant to the reactor vessel was determined to be the use of a portable diesel fire pump, which could deliver raw water, through various piping connections, into the vessel.

One of the safety features of the BWR is the ability to deliver water into the vessel from a variety of pathways.

Again, my best wishes for your endeavors.

Best regards,

Brian
Brian Grimes, Senior Executive Consultant
Numark Associates, Inc.
1220 19th St. NW, Suite 500
Washington, DC 20036
Numark Tel. 202-466-2700

(b)(6)
Web: www.numarkassoc.com

000/9

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From: Trapp, James
To: Vergara, Martin; Weber, Michael; Andersen, James; Merghe, Daniel; Bowman, Gregory; Warwick, Brian
Subject: FW: Update - Diablo Canyon UE Following Tsunami Warning
Date: Friday, March 11, 2011 2:57:00 PM
Attachments: Document1.pdf

FYI

From: Braisted, Jonathan
Sent: Friday, March 11, 2011 2:12 PM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Trapp, James; Dricks, Victor; Uselding, Lara; Polickoski, James; Markley, Michael; Kammerer, Annie; Howell, Art; Farnholtz, Thomas; Vogel, Anton; Peck, Michael
Subject: Update - Diablo Canyon UE Following Tsunami Warning

All,

Update as of 1100 hours PST: The licensee remains in an unusual event for the tsunami warning. Both units are currently stable and operating at full power. The licensee has permitted the night shift to leave via the north access road. The south (Avila Beach) access road remains closed. The licensee has resumed normal watch of the intake building. The attached document shows a plot of predicted and observed water level versus time. The licensee anticipates the tsunami warning will be lifted around noon PST and would then exit the unusual event.

Regards,
Jon

Jonathan D. Braisted
Diablo Canyon Resident Office
U.S. Nuclear Regulatory Commission
(805) 595-2354 - Office
(805) 595-2355 - Fax

From: Peck, Michael
Sent: Friday, March 11, 2011 7:10 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara; Polickoski, James; Markley, Michael; Kammerer, Annie; Howell, Art; Farnholtz, Thomas; Vogel, Anton
Subject: FYI: Update - Diablo Canyon UE Following Tsunami Warning

Geoff,

(Update as of 0700 hours PST): The Tsunami is expected to arrive at Diablo Canyon at 0803 hours

803/10

(PST). The licensee anticipates about a 3 foot wave surge at the plant intake. The Shift Manager decided to maintain both units at full power during the event. The Shift Manager expects about 3 feet NPSH margin for the condenser circulating pumps and about 15 feet margin for the auxiliary saltwater pumps (ultimate heat sink). The Shift Manager has release all non-essential personnel from the site.

County authorities are evacuating low lying coastal areas, including Port St. Luis, Avila Beach, parts of Moore Bay and Pismo Beach.

Michael Peck,
SRI

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Sent: Friday, March 11, 2011 4:12 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara
Subject: FYI: Diablo Canyon - UE Following Tsunami Warning

Geoff,

(Update as of 0400 hours PST): The Diablo Canyon Shift Manager declared an Unusual Event at 0123 hours (PST) on March 11, 2011, after receiving a Tsunami Warning from the West California Emergency Management Agency. The Tsunami Warning was generated after an estimated 8.9 M earthquake occurred off the eastern Japanese coast. The Pacific Gas and Electric Geosciences Department is monitoring reports from ocean buoys and Pacific locations as the Tsunami travels across the Pacific Ocean. Geosciences personnel have concluded that the Tsunami is unlikely to cause damage at either Diablo Canyon or Humboldt Bay facilities. The Shift Manager implemented the station casualty procedure for a Tsunami Warning. These actions included:

- Evacuation of personnel from the station inlet structure (except minimum security watch)
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- Established commutations with the San Luis Obispo Emergency Operations Center
- Established Fire Brigade and local command center

The resident inceptors responded to the site following the declaration of the Unusual Event.

Michael Peck, Ph.D.
Senior Resident Inspector
Diablo Canyon Power Plant
Office: (805) 595-2354

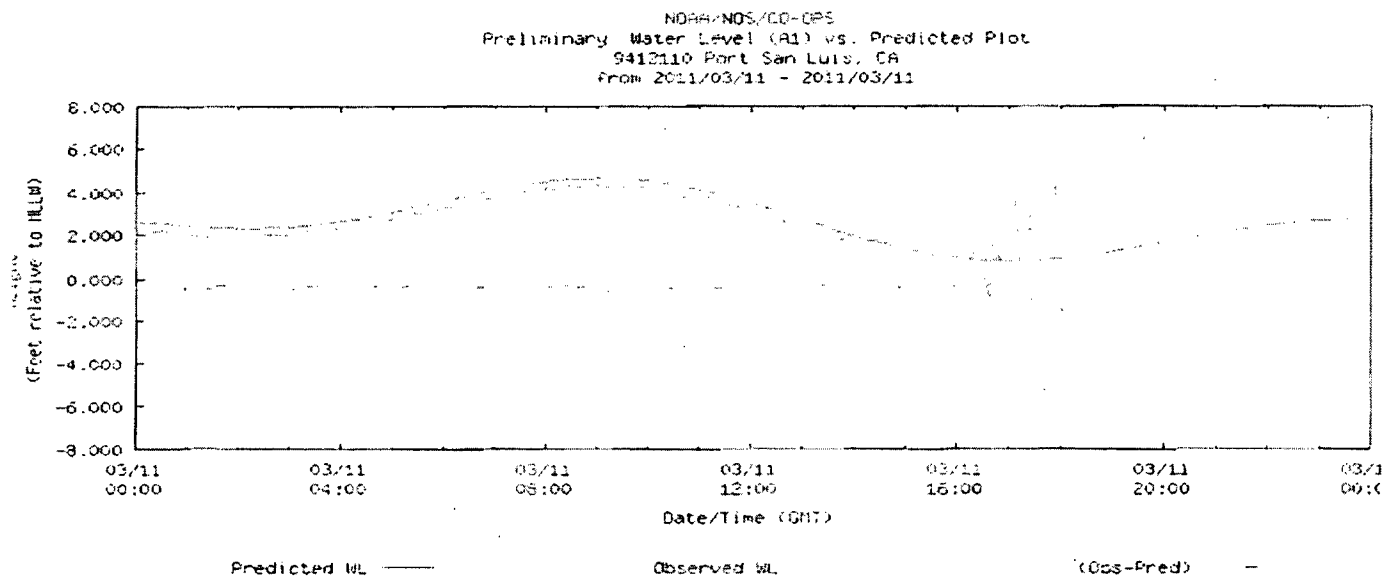
(b)(6)

Quitter, Michael

From: Lindsey, John C
Sent: Friday, March 11, 2011 10:30 AM
To: Quitter, Michael; Gerfen, Paula
Cc: Ginn, Michael A. (DCPP)
Subject: It look's like we may be passed the peak

Attachments: Picture (Device Independent Bitmap)

It look's like we may be pass the peak



From: Trapp, James
To: Wittick, Brian
Subject: RE: Radiation Level Rising in Fukushima Nuclear Plant Turbine Building - emergency generators dispatched
Date: Friday, March 11, 2011 1:32:00 PM

Not looking good – info on the TEPCO Website.

From: Wittick, Brian
Sent: Friday, March 11, 2011 1:18 PM
To: Trapp, James
Subject: Fw: Radiation Level Rising in Fukushima Nuclear Plant Turbine Building - emergency generators dispatched

FYI

Sent from NRC BlackBerry
Brian Wittick

(b)(6)

From: Breskovic, Clarence
To: Breskovic, Clarence
Sent: Fri Mar 11 13:13:42 2011
Subject: Radiation Level Rising in Fukushima Nuclear Plant Turbine Building - emergency generators dispatched

Radiation Level Rising in Fukushima Nuclear Plant Turbine Building

Fukushima, Japan, March 12 Kyodo -- The radiation level is rising in the building housing a turbine of the No. 1 reactor of the Fukushima No. 1 nuclear power plant following Friday's powerful earthquake, the operator Tokyo Electric Power Co. said Saturday.

The company also said monitoring data suggested the air pressure level has also soared inside the container of the reactor.

State of Emergency Declared at Fukushima Plant

Tokyo Asahi Shimbun Online 1733 GMT 11 Mar 11
Friday's devastating earthquake in the Tohoku region may have created a dangerous situation at two nuclear reactors in Fukushima Prefecture.

Officials of the Nuclear and Industrial Safety Agency were informed by Tokyo Electric Power Co. that the emergency core cooling system was not working at two reactors.

In addition, another mechanism that had been used to send water to the core also stopped at 8:30 p.m.

If the cores are not sufficiently cooled, there is a danger of a possible core meltdown.

BBB/11

At a news conference Friday night, Chief Cabinet Secretary Yukio Edano said a state of emergency at a nuclear facility was declared at 4:36 p.m.

It is the first time such a state of emergency has been declared.

According to NISA officials, although the reactor core stopped operations after the earthquake hit, water had to be inserted to the core to cool it because heat continued to be emitted from the nuclear fuel.

Although workers had to initiate emergency core cooling system procedures, the lack of an external power source and the failure of an emergency generator crippled the system that circulates water to the core to cool it.

TEPCO officials dispatched 51 generator vehicles to the reactors in an attempt to restore power. One vehicle reached one of the nuclear reactors late Friday and some of that reactor's power was restored.

At 9:23 p.m., the central government issued an evacuation instruction for residents living within a 3-kilometer radius of the No. 1 Fukushima nuclear power plant as well as an instruction to residents living within a radius of between 3 and 10 kilometers to remain indoors.

Edano said no radiation leakage had been detected.

The company issued an emergency evacuation order for the two reactors at the No. 1 Fukushima nuclear power plant. Officials from local communities gathered at a special monitoring facility in Okuma to oversee the cooling of the cores.

There was also the possibility that seawater pumps for cooling purposes may have stopped at two reactors at the No. 2 Fukushima nuclear power plant.

If those pumps remain inoperational, it could affect the emergency core cooling systems at those reactors as well.

From: Tracy, Linda
To: Wang, Alan; Wang, Michael; Hinkle, David; San Diego, Nathan; Andersen, Jason; Bowman, Gregory
Subject: FW: Update - Diablo Canyon UE Following Tsunami Warning
Date: Friday, March 11, 2011 10:11:00 AM

FYI

From: Peck, Michael
Sent: Friday, March 11, 2011 10:10 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara; Polickoski, James; Markley, Michael; Kammerer, Annie; Howell, Art; Farnholtz, Thomas; Vogel, Anton
Subject: FYI: Update - Diablo Canyon UE Following Tsunami Warning

Geoff,

(Update as of 0700 hours PST): The Tsunami is expected to arrive at Diablo Canyon at 0803 hours (PST). The licensee anticipates about a 3 foot wave surge at the plant intake. The Shift Manager decided to maintain both units at full power during the event. The Shift Manager expects about 3 feet NPSH margin for the condenser circulating pumps and about 15 feet margin for the auxiliary saltwater pumps (ultimate heat sink). The Shift Manager has release all non-essential personnel from the site.

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Michael Peck,
SRI

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Sent: Friday, March 11, 2011 4:12 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara
Subject: FYI: Diablo Canyon - UE Following Tsunami Warning

Geoff,

(Update as of 0400 hours PST): The Diablo Canyon Shift Manager declared an Unusual Event at 0123 hours (PST) on March 11, 2011, after receiving a Tsunami Warning from the West California Emergency Management Agency. The Tsunami Warning was generated after an estimated 8.9 M earthquake occurred off the eastern Japanese coast. The Pacific Gas and Electric Geosciences Department is monitoring reports from ocean buoys and Pacific locations as the Tsunami travels across the Pacific Ocean. Geosciences personnel have concluded that the Tsunami is unlikely to cause damage at either Diablo Canyon or Humboldt Bay facilities. The Shift Manager implemented the station casualty procedure for a Tsunami Warning. These actions included:

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- Established communications with the San Luis Obispo Emergency Operations Center
- Established Fire Brigade and local command center

Bob / 12

The resident inspectors responded to the site following the declaration of the Unusual Event.

Michael Peck, Ph.D.
Senior Resident Inspector
Diablo Canyon Power Plant
Office: (805) 595-2354

(b)(6)

From: HOO Hoc
To: Trapp, James
Subject: RE: Diablo Canyon - UE Following Tsunami Warning
Date: Friday, March 11, 2011 7:34:25 AM

Jim,
Thanks.
Cheers,
Joe

From: Trapp, James
Sent: Friday, March 11, 2011 7:25 AM
To: HOO Hoc
Subject: FW: Diablo Canyon - UE Following Tsunami Warning

FYI

From: Peck, Michael
Sent: Friday, March 11, 2011 7:12 AM
To: Miller, Geoffrey
Cc: Collins, Elmo; Kennedy, Kriss; Pruett, Troy; Howell, Linda; Wang, Alan; Deese, Rick; Denissen, Christie; Braisted, Jonathan; Trapp, James; Dricks, Victor; Uselding, Lara
Subject: FYI: Diablo Canyon - UE Following Tsunami Warning

Geoff,

(Update as of 0400 hours PST): The Diablo Canyon Shift Manager declared an Unusual Event at 0123 hours (PST) on March 11, 2011, after receiving a Tsunami Warning from the West California Emergency Management Agency. The Tsunami Warning was generated after an estimated 8.9 M earthquake occurred off the eastern Japanese coast. The Pacific Gas and Electric Geosciences Department is monitoring reports from ocean buoys and Pacific locations as the Tsunami travels across the Pacific Ocean. Geosciences personnel have concluded that the Tsunami is unlikely to cause damage at either Diablo Canyon or Humboldt Bay facilities. The Shift Manager implemented the station casualty procedure for a Tsunami Warning. These actions included:

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- Established Fire Brigade and local command center

The resident inceptors responded to the site following the declaration of the Unusual Event.

Michael Peck, Ph.D.
Senior Resident Inspector
Diablo Canyon Power Plant
Office: (805) 595-2354

(b)(6)

BBB/13

From: Wittick, Brian
To: Inigo, James; Abrams, Chantelle
Subject: Fw: Status: Naval Assets
Date: Friday, March 11, 2011 10:53:14 AM

FYI

Sent from NRC BlackBerry
Brian Wittick

(b)(6)

From: Leeds, Eric
To: Quichocho, Jessie; McGinty, Tim
Cc: Blount, Tom; Boger, Bruce; Weber, Michael; Virgilio, Martin; Borchardt, Bill; McDermott, Brian; Evans, Michele; Mamish, Nader; Wittick, Brian
Sent: Fri Mar 11 10:15:39 2011
Subject: Status: Naval Assets

All -

Please see below email from Jesse on status of Naval assets. I've requested that Jesse stay in touch with events through the Op Center and continue to coordinate and supply info to our counterparts at Naval reactors.

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

From: Quichocho, Jessie
Sent: Friday, March 11, 2011 9:52 AM
To: McGinty, Tim
Cc: Blount, Tom; Leeds, Eric; Boger, Bruce
Subject: Status: Naval Assets
Importance: High

I received a call from the Matthew Napoli, Technical Director for Foreign Affairs NAVSEA 08.

Report as follows:

In Japan, all assets are under control. No issues.

In Guam, ships were unmoored no issues on equipment.

They would like open communications with NRC on the status of the plants in Japan. They heard evacuations are occurring and that some facilities do not have cooling. They would like to be aware of any events that occur that may affect their assets.

Would it be possible to include NR in our communications or at a minimum provide them

03/14

information as part of updates?

Thanks,
Jessie

From: Dave Skeen
To: David Skeen; McDermott, Brian
Cc: Virgilio, Martin; McGinty, Tim
Subject: Re: Cell phone number for Dave Skeen
Date: Saturday, March 12, 2011 10:28:38 AM

Chairman,

We are currently en route to the WH. I have your briefing book. I will meet you at the NY and 17th St. entrance.

See you soon.

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

From: Jaczko, Gregory
To: McDermott, Brian
Cc: Skeen, David; Virgilio, Martin; McGinty, Tim
Sent: Sat Mar 12 10:23:10 2011
Subject: Re: Cell phone number for Dave Skeen

Thank you

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

From: McDermott, Brian
To: Jaczko, Gregory
Cc: Skeen, David; Virgilio, Martin; McGinty, Tim
Sent: Sat Mar 12 10:22:16 2011
Subject: Cell phone number for Dave Skeen

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

From: Skeen, David
Sent: Saturday, March 12, 2011 10:19 AM
To: Virgilio, Martin; McGinty, Tim; McDermott, Brian
Subject: My cell #

In case you need it -

(b)(6)

Page 15

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

I agree Holly - thanks for the review

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

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

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

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

A. No.

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

Ladies -

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

Q&A:

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

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

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

A. No.

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

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

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

Bob / 16

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

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

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

Key Messages:

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

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

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

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

For background information on generic operations at a boiling-water reactor, including an animated graphic, visit the NRC's website at www.nrc.gov

Other sources of information:

USAID -- www.usaid.gov

U.S. Dept. of State -- www.state.gov

FEMA -- www.fema.gov

White House -- www.whitehouse.gov

Nuclear Energy Institute -- www.nei.org

International Atomic Energy Agency -- www.iaea.org/press

From: Sheron, Brian
To: Vishnu, Heman; Weber, Michael; Borchardt, Bill; Lewis, Eric; Urie, Jennifer
Subject: FW: Earthquake Impact
Date: Saturday, March 12, 2011 11:42:13 AM

See below. Not sure if you have this level of information.

From: Bari, Robert A [bari@bnl.gov]
Sent: Saturday, March 12, 2011 8:03 AM
To: shunsuke.kondo@cao.go.jp; (b)(6)
Cc: Horak, William C; Braverman, Joseph I; Hofmayer, Charles H; Sheron, Brian; Genzer, Peter A
Subject: RE: Earthquake Impact

Dear Shunsuke

Thank you for this. It helps to now understand the course of events, so far.

Yesterday I was interview by ABC News in NYC about the event at the reactors. The discussion was quite general on protection of plants during earthquakes.

Very early this morning (4 AM EST) I was called by the newsman about the evolving situation as they understood it. I was about to do a formal interview with them via skype from my home when they informed me that they were switching their news coverage to a horrible bus accident in NYC that killed several people. They said that they would get in touch with us at a later time.

I am now studying your scenario and may have some additional questions in a subsequent email.

I understand that the reactors are BWR Mark I with RCIC. Is that correct?

I will not share any of your information with the press unless you say that it is OK.

Best regards,

Bob

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

From: shunsuke.kondo@cao.go.jp [mailto:shunsuke.kondo@cao.go.jp]
Sent: Saturday, March 12, 2011 7:07 AM
To: Bari, Robert A; (b)(6)
Cc: Horak, William C; Braverman, Joseph I; Hofmayer, Charles H; Sheron, Brian
Subject: RE: Earthquake Impact

Dear Bob

Thank you very much for your kind email. We are still in the midst of the fight for cooling down the core of the plants, experiencing after shock almost every hour since the main shock yesterday.

Enclosed please find my personal note on the current situation at the site, just for your information.

Yours,
Shunsuke Kondo

Current (15:30 of 2011/03/12) Situation of Fukushima Daiichi (1F, six units) and Fukushima Daini (2F, four units) Nuclear Power Plants Hit by Tohoku-chiho Taiheiyoku-oki Earthquake (TT-EQ) on March 11, 2011

BBB/1.7

The TT-EQ caused automatic shutdown of all operating units of 1F, i.e. unit 1, 2, 3 and 2F, i.e. unit 1, 2, 3, 4. Simultaneously, the off-site powers to these units were lost due to the damage of many fossil and some of hydro power generating stations in the network with which these units were connected. Furthermore, most of the emergency diesel generators (EDGs) of these units could not continue operation due to lack of cooling caused by extraordinary high Tsunami. In essence these units were put into the situation called "total blackout".

The regulatory authority recommended every operator to prepare so-called (severe) accident management procedure and features that should be followed in such situation ten years ago and currently all operators have this procedure as a part of operation manual. Therefore TEPCO team has started the operation to cool the core based on this procedure.

The team was faced with difficulty in the execution, however, as the vital power source was not available also due to the flooding of the building: this power source is important as it is to supply power to sustain I&C system that is used to monitor plant status and operate motor-operated valve (MOV) necessary in this operation.

Therefore TEPCO gathered power supply trucks, DC batteries and fire-fighting engines from available sources near-by and the team started their fight to minimize the probability of occurrence of large-scale release, utilizing them.

1F Unit 1: Although RCIC is available to remove heat from the core, the reactor water level has decreased gradually to the level below the top of active core possibly due to some leakage from RPV boundary (containment pressure is now almost equal to RPV pressure) and the radiation level around the unit started to rise gradually at around 4:00 AM today.

The team has started the water injection using fire-fighting car or fire engines to stabilize core condition and challenged to open the valves in the scrubbing venting line under high radiation condition. As Iodine and Cesium are recognized in the environment in parallel, though quite minor, the government asked evacuation to the people within 10 km from the plant as a precaution. We were very lucky that the wind direction was from land to sea at this time.

The team has succeeded to open the valves in the venting line at around 14:00 and then the containment pressure started to decrease significantly. As for the water level in RPV, though it was decreasing at first irrespective of the injection of the water but then has been stabilized though it is significantly below the top of the core.

It is under discussion to use sea water as makeup water after the exhaustion of water in fire-fighting water tank.

It was reported at 15:35 that the Reactor Building of 1F1 was ruptured after a rather strong earthquake with the sound of explosion and that the level of radiation at the site boundary was suddenly doubled from 500 micro Sv/hr of that after venting operation to 1mSv/hr. The explosion is considered due to explosion of hydrogen leaked from the primary coolant boundary caused by the impact of the earthquake.

The team decided to complete the preparation to perform this type of feed and bleed (F&B) operation in parallel with making their best to recover sea-water line, as key operation in these situation is the F&B operation utilizing venting line until we can recover the operation of sea water system as a heat sink and can use ECCS system.

Accordingly, in the cases of 1F Unit 2 & 3, though reactor water level is above the top of the core and core makeup system (either by RIC1 or HPCI) is in operation, containment venting is in preparation in case the channel to the ultimate heat sink (seawater) is not resumed.

Also in the case of every units of 2F, containment venting is in preparation though offsite power is now available as the path to UHS (sea) is not established.

In the case of 1F 4, 5, 6, they were not in operation they were in shutdown state for refueling and maintenance outage.

From: Bari, Robert A [mailto:bari@bnl.gov]
Sent: Friday, March 11, 2011 10:19 PM
To: 近藤 駿介(子力 員会)(shunsuke.kondo); 近藤 駿介(子力 員会)
Cc: Horak, William C; Braverman, Joseph I; Hofmayer, Charles H; Sheron, Brian
Subject: Earthquake Impact

Dear Shunsuke

Please accept my sympathy as you and the Japanese people endure this unfortunate tragedy.

Brookhaven stands ready to provide appropriate assistance as you might request.

As you know, we have a long-standing program on Japan-US cooperation on seismic safety for nuclear plants with sponsorship by the USNRC.

Sincerely,

Bob

From: LIA04 Hoc
To: McKinnara, Nancy; Turtl, Doug; Lofgren, Robert; Woodruff, Dana; Becker, Allan; Logares, Maria; Maer, Bill; Sawyer, Rachel; Turtl, Andrew
Cc: Hayden, Elizabeth; Harrison, Holly; Smith, Scott; Thacker, Mark; Brown, Tom; LIA05 Hoc; LIA04 Hoc
Subject: FW: Emailing: State Q&A Rev 1.pdf for Distribution to SLOs
Date: Sunday, March 13, 2011 3:38:21 AM
Attachments: State Q&A Rev 1.pdf

RSLOs - The information attached has been vetted with OPA and the NRC Executive Team and has been approved for dissemination to the Governor-appointed State Liaison Officers.

Rich Turtl will be reporting to the Ops Center @ 7:00 am Sunday 3/13 and will be your POC.

Thank you for your assistance today.

Rosetta

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

From: LIA09 Hoc
Sent: Sunday, March 13, 2011 3:28 AM
To: LIA04 Hoc
Subject: Emailing: State Q&A Rev 1.pdf

The message is ready to be sent with the following file or link attachments:

State Q&A Rev 1.pdf

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

BBB/18

Date: 3/13/2011

Time: 1:55am

State Q&A's:

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

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

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

A. No, not given current information.

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

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

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

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

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

Key Messages:

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

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

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

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

For background information on generic operations at a boiling-water reactor, including an animated graphic, visit the NRC's website at www.nrc.gov

Other sources of information:

USAID – www.usaid.gov

U.S. Dept. of State – www.state.gov

FEMA – www.fema.gov

White House – www.whitehouse.gov

Nuclear Energy Institute – www.nei.org

International Atomic Energy Agency -- www.iaea.org/press

From: Virgilio, Rosetta
To: Virgilio, Rosetta
Subject: Fw: NEI's information on the Japanese earthquake and reactors in that region
Date: Sunday, March 13, 2011 1:54:44 PM

FYI

Sent from an NRC Blackberry
Rosetta O. Virgilio

(b)(6)

From: McNamara, Nancy
To: Tift, Doug; Maier, Bill; Barker, Allan; Logaras, Haral; Woodruff, Gena; Trojanowski, Robert
Cc: Virgilio, Rosetta; LIA04 Hoc
Sent: Sun Mar 13 13:20:32 2011
Subject: NEI's information on the Japanese earthquake and reactors in that region

Here is another link that you can pass on. As you can see from below, you can click on the "dedicated page" and it forwards you to the NEI website that is following this. Its got updates and good schematics of the Japanese design.

From: Richley Hayes [mailto:slh@nei.org]
Sent: Saturday, March 12, 2011 12:09 PM
To: McNamara, Nancy
Subject: Information on the Japanese earthquake and reactors in that region



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

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

[Click here to unsubscribe](#)



BBB/19

From:
To:
Subject:
Date:

(b)(6)

Expected to Experience Harmful Radioactivity re Japan
Sunday, March 13, 2011 11:29 12 PM

International/Japan

U.S. Not Expected to Experience Harmful Levels of Radioactivity from Damaged Japanese Plants

The U.S. Nuclear Regulatory Commission, the U.S. Department of Energy, and other federal agencies are coordinating to provide whatever assistance the Japanese government requests as they respond to conditions at several nuclear power plants following the earthquake and tsunami this past Friday, March 11.

Federal agencies are monitoring radioactive releases and predicting their path. Earlier today, NRC issued a press release stating in part as follows:

"All the available information indicates weather conditions have taken the small releases from the Fukushima reactors out to sea away from the population. Given the thousands of miles between the two countries, Hawaii, Alaska, the U.S. Territories and the U.S. West Coast are not expected to experience any harmful levels of radioactivity."

NRC's Maryland-based headquarters Operations Center has been operating on a 24-hour basis since the beginning of the emergency in Japan. Two NRC officials with expertise in boiling water nuclear reactors have deployed to Japan as part of a U.S. International Agency for International Development (USAID) team. USAID is the federal government agency with primary responsibility for providing assistance to countries in the aftermath of a disaster.

"We offer our condolences to all those in Japan affected by these tragedies," said NRC Chairman Gregory Jaczko. "We have some of the most expert people in this field in the world working for the NRC and we stand ready to assist in any way possible."

NRC will not provide information on the status of developments at Japan's nuclear reactors, however, as this is an ongoing crisis for which the Japanese have primary responsibility. Persons interested in additional information are encouraged to check the NRC web site or blog for the latest information on NRC actions. Additional sources of information are as follows:

USAID: www.usaid.gov
U.S. Department of State: www.state.gov
Federal Emergency Management Agency: www.fema.gov
White House: www.whitehouse.gov
Nuclear Energy Institute: www.nei.gov
International Atomic Energy Agency: www.iaea.org

Japan experienced issues at several nuclear power plants following an estimated 8.9 magnitude earthquake and tsunami off the eastern Japanese coast on Friday, March 11, 2011. Thereafter, NRC monitored conditions at various U.S. nuclear power plants, spent fuel storage installations, and nuclear materials sites. Personnel at all locations have informed the NRC that conditions remain safe.

For background information on generic operations at a boiling-water reactor, including an animated graphic, please visit the NRC's web site at www.nrc.gov

March 13, 2011

Todd D. Lovinger, Esq.
Executive Director

888120

LLW Forum, Inc.
(202) 265-7990

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From: Taylor, Renee
To: Abraham, Susan; Aleksiewicz, Barbara; Andersen, James; Ash, Damien; Baker, Pamela; Belmont, Nancy; Betts, Allison; Beyer, Bruce; Borchert, Bill; Brown, Thomas (OIS); Boyd, Lena; Brumbaugh, Eliza; Brown, Milton; Buckley, Patricia; Campbell, Andy; Carter, Maria; Caste, Chuck; Chisholm, Sandra; Cohen, Minnie; Collins, Elmo; Crawford, Carrie; Crouch, Nicole; Callison, David; Damby, Jan; Dapas, Maria; Darby, Kayster; Deagan, George; Dellinger, Mark; Deming, Stephen; Donohue, Elizabeth; Dorman, Dan; Dupose, Sheila; EEO, Gustavson, Eric; Ren; Flory, Shirley; Garland, Stephanie; Glavin, Mary; Golden, Jennifer; Grobe, Jack; Gurski, Barbara; Harris, Marissa; Hays, Heather; Hayton, Elizabeth; Higgins, Tina; Holahan, Gary; Johnson, Patricia; Jones, Rhonda; Mayard, Patrick; Howell, Art; Jaeger, Cathy; Kaplan, Michele; Kelley, Catherine; Knapp, David; Landis, Mandy; Lee, Pamela; Lee, David; Mamen, Nader; Marakas, Gina; McCray, Cheryl; Miles, Patricia; Mitchell, Reggie; Moore, Scott; Mueller, Mary; O'Daniel, Cynthia; Owen, Lucy; Peterson, Cynthia; Polansky, Catherine; Powell, Amy; Pulliam, Timmy; Quisenberry, Jeannette; Raynor, Kathleen; Reynolds, Steven; Roelke, Cynthia; Rogers, Nicole; Rowland, Lynn; Ross, Brenda; Ross, Susan; Sales, Amy; Santora, Patricia; Saville, Mark; Schaefer, James; Schmitt, Rebecca; Schmitt, Constance; Schmitt, Stacy; Schwarz, Sherry; Shan, Maria; Shaw, Jason; Smith, Rachel; Somerville, Gloria; Springer, Patricia; Stewart, Sharon; Thompson, Anna; Taylor, Renee; Tenebra, Tammy; Tracy, Glenn; Van, Jennifer; Vail, Debra; Vande, Mark; Walker, Dwight; Weber, Michael; West, Jeffrey; West, Steven; Williams, Barbara; Wyatt, Melissa; Zimmerman, Roy; Zolner, Paula; Zolner, Jesse
Subject: Scheduling Call Agenda - March 14, 2011
Date: Monday, March 14, 2011 10:50:40 AM
Importance: High

Good morning,

The topics for today's scheduling call are as follows:

Topics for Scheduling Call – March 14, 2011

1. Op Center Support Priority
2. Strategic Acquisition SRM & Interim POC Process – Rickie Seltzer
3. Profiling OIG Report Recommendation Status Correspondence in ADAMS for Public Availability – Jesse Arildsen
4. Commission Meeting Presentation Feedback – Jim Andersen

Please feel free to come to Mary's office (O-17H20) for the meeting. The bridge line for this call is 1-800-857-0150, pass code (b)(6)

Thank you,

Renee Taylor

Administrative Assistant to the Executive Director for Operations
U.S. Nuclear Regulatory Commission
(301) 415-1701

BBB / 21

From: Goorevich, Richard
To: Fragoyannis, Nancy; Smith, Gretchen (CONTR); Hamm, Jason, CIV, OSD-POLICY; Appel, Thomas CTR OSD POLICY; Hill, Janette; Solit, James; Barlow, Maegon; CockerhamRS@state.gov; CurryMR@state.gov; Cunningham, Abigail; Doane, Margaret; Glaser, Joseph; Hibbs, Russ (CONTR); Illopulos, Ioanna; Krupa, Melissa M; macdonaldse@state.gov; jcmatte@sandia.gov; Melamed, Ely; MentzJW@state.gov; Mustin, Tracy; Rooney, John (CONTR); sandbeEC@state.gov; Tynan, Douglas; (b)(6); Greg.Haugan@dhs.gov; Robinson, Phil; Rivers, Joseph; Schwartzman, Jennifer; Harris, Tim; Henderson, Karen; Holleran Rivera, Maria; CutlerKB@state.gov; (b)(6); Mark.Wittrock@dhs.gov; Zachary.palmer@dhs.gov; Layton, Michael; (b)(6); Buntman, Steven; Pappas, Richard; Hammitt, Brad; Jackson, Gerard; Brendan.Plapp@dhs.gov; (b)(6); ShafferMr@state.gov; Campbell, Darcy (CONTR); rick.boyle@dot.gov; Thomas.Appel.ctr@osd.gov; gabaum@sandia.gov; Jason.Hamm@osd.gov; Wanzler, Steve; john.zabko@dhs.gov; WuchteTA@state.gov; Williams, Shawn; Mallin, Monte; Phillips, Anne L; Van Sickle, Matthew; Sunshine, Alexander; Carter, Regina M; Collins, Jimmie; Perry, Todd; Mininni, Margot; (b)(6); Rooney, John; Hamm, Jason, CIV, OSD-POLICY; Diec, David; Conner, James (CONTR); Goorevich, Richard
Cc:
Subject: RE: ACTION: Clear/Comment on Draft Task Force cable by noon tomorrow (3/11)
Date: Monday, March 14, 2011 11:39:18 AM

Nancy:

Thanks for the comments. It seems that the USG is completely split on this issue and I do not see anyway forward to find a solution to developing a single set of guidance for this meeting. I have not spoken with Rob yet about this yet but I think we are stuck telling Jim and Marty to not agree to anything given that the USG does not have a position yet. This will mean that they will be told to not support any action and too essentially hold-off on allowing the IAEA to move forward.

I am not sure that another meeting will be useful. We have these meetings, find a temporary solution then we are back to square one a few months later. I think Jim and Marty should be straight forward with their committee members that there is a fundamental problem that the USG has with this effort and it's at the conceptual level

Rich

From: Fragoyannis, Nancy (mailto:Nancy.Fragoyannis@nrc.gov)
Sent: Friday, March 11, 2011 5:13 PM
To: Smith, Gretchen (CONTR); Hamm, Jason, CIV, OSD-POLICY; Appel, Thomas CTR OSD POLICY; Hill, Janette; Solit, James; Barlow, Maegon; CockerhamRS@state.gov; CurryMR@state.gov; Cuthbertson, Abigail; Doane, Margaret; Glaser, Joseph; Hibbs, Russ (CONTR); Illopulos, Ioanna; Krupa, Melissa M; macdonaldse@state.gov; jcmatte@sandia.gov; Melamed, Ely; MentzJW@state.gov; Mustin, Tracy; Rooney, John (CONTR); sandbeEC@state.gov; Tynan, Douglas; (b)(6); Greg.Haugan@dhs.gov; Robinson, Phil; Rivers, Joseph; Schwartzman, Jennifer; Harris, Tim; Henderson, Karen; Holleran Rivera, Maria; CutlerKB@state.gov; (b)(6); Mark.Wittrock@dhs.gov; Zachary.palmer@dhs.gov; Layton, Michael; (b)(6); Buntman, Steven; Pappas, Richard; Hammitt, Brad; Jackson, Gerard; Brendan.Plapp@dhs.gov; (b)(6); ShafferMr@state.gov; Campbell, Darcy (CONTR); rick.boyle@dot.gov; Thomas.Appel.ctr@osd.gov; gabaum@sandia.gov; Jason.Hamm@osd.gov; Wanzler, Steve; john.zabko@dhs.gov; WuchteTA@state.gov; Williams, Shawn; Mallin, Monte; Phillips, Anne L; Van Sickle, Matthew; Sunshine, Alexander; Carter, Regina M; Collins, Jimmie; Perry, Todd; Mininni, Margot; (b)(6); Rooney, John; Hamm, Jason, CIV, OSD-POLICY; Diec, David; Conner, James (CONTR); Goorevich, Richard
Cc: Mamish, Nader; Virgilio, Martin; Brach, Bill; Floyd, Daphene
Subject: RE: ACTION: Clear/Comment on Draft Task Force cable by noon tomorrow (3/11)

Rich and Rob.

BBB/22

We have substantial changes to the cable. The integration of safety and security involves a regulatory issue under the purview of the NRC. US licensees are required to address safety and security in an integrated and coordinated manner. The changes to the cable reflect our response to implications of taking a position that is inconsistent with these long-established practices. The NRC revisions are noted in the attached revised cable.

With the attached changes, NRC clears. If further conversations at the interagency are necessary to discuss our changes on the cable, we are happy to have Marty Virgilio, NRC Deputy Executive Director discuss this matter with his counterparts, which should be at the Assistant Secretary level or higher.

Thanks

Nancy

FYI – I was having a problem with redline version. If new language is not highlighted please look at tack marks on the left margin to show additions.

From: Smith, Gretchen (CONTR) [mailto:Gretchen.Smith@nnsa.doe.gov]
Sent: Thursday, March 10, 2011 11:03 AM
To: 'Hamm, Jason, CIV, OSD-POLICY'; Appel, Thomas CTR OSD POLICY; Smith, Gretchen (CONTR); Hill, Janette; Solit, James; Barlow, Maegon; 'CockerhamRS@state.gov'; 'CurryMR@state.gov'; Cuthbertson, Abigail; Doane, Margaret; Glaser, Joseph; Hibbs, Russ (CONTR); Iliopoulos, Ioanna; Krupa, Melissa M; 'macdonaldse@state.gov'; 'jcmatte@sandia.gov'; Melamed, Elly; 'MentzJW@state.gov'; Mustin, Tracy; Rooney, John (CONTR); 'sandbeEC@state.gov'; Tynan, Douglas;
(b)(6) 'Greg.Haugan@DHS.GOV'; Robinson, Phil; Rivers, Joseph;
Schwartzman, Jennifer; Harris, Tim; Henderson, Karen; Holleran Rivera, Maria; 'CutlerKB@state.gov';
(b)(6) Fragoyannis, Nancy; 'Mark.Wittrock@dhs.gov'; 'Zachary.palmer@dhs.gov';
(b)(6) Layton, Michael; (b)(6) Buntman, Steven; Pappas, Richard; Hammitt, Brad; Jackson, Gerard; 'Brendan.Plapp@dhs.gov'; (b)(6)
(b)(6) 'ShafferMr@state.gov'; Campbell, Darcy (CONTR); 'rick.boyle@dot.gov'; 'Thomas.Appel.ctr@osd.gov'; 'gabaum@sandia.gov'; 'Jason.Hamm@osd.gov'; Wanzer, Steve; 'john.zabko@dhs.gov'; 'WuchteTA@state.gov'; Williams, Shawn; Mallin, Monte; Phillips, Anne L; Van Sickle, Matthew; Sunshine, Alexander; Carter, Regina M; Collins, Jimmie; Perry, Todd; Mininni, Margot; (b)(6) Rooney, John; 'Hamm, Jason, CIV, OSD-POLICY'; Diec, David; Conner, James (CONTR)
Subject: ACTION: Clear/Comment on Draft Task Force cable by noon tomorrow (3/11)

Dear all,

The draft cable on the Joint Task Force is attached for your review. Please provide any edits to me by noon tomorrow (3/11).

Thanks!

Gretchen

Contractor to
Office of Nuclear Safeguards and Security (NA-241)
U.S. Department of Energy/National Nuclear Security Administration
Gretchen.Smith@nnsa.doe.gov
202-586-2650

From: weaverke@state.gov
To: Martin.Virgilio@nrc.gov
Subject: ECC - [INFO ONLY, NO ACTION] - Itinerary #590074/Virgilio REQUEST CANCELLED, ARRIVAL: 3/16/2011
Date: Monday, March 14, 2011 6:23:35 PM

This request for country clearance has been cancelled.

Request Details

Destination Country	Destination Cities	Arrival Date	Departure Date
AUSTRIA, UNVIE VIENNA	Vienna	3/16/2011	3/19/2011

Travelers

Name: Martin Virgilio

Contact Info: 301-415-1713
Martin.Virgilio@nrc.gov

Country of Birth: (b)(6)

Emergency Contact: (b)(6)

Clearance: (b)(6)

Clearance Verification:

Additional Info:

Other Group Members:

Shawn A Williams - NRC

Agency: Nuclear Regulatory Commission

Employment Type: (b)(6)

Passport Type: (b)(6)

Passport #: (b)(6)

Passport Country: (b)(6)

List of recipients:

[ACTION]-REQUEST APPROVER:

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wrotenak@state.gov
buckc@state.gov
amenu-zottereb@state.gov
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EEB/23

[INFO]-COUNTRY DESK:
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[INFO]-GROUP CC:
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kuderaea@state.gov
hall-godfreyjj@state.gov

[INFO]-REQUESTOR CC:
jennifer.schwartzman@nrc.gov
martin.virgilio@nrc.gov
bobbie@anl.gov

From: Gusack, Barbara
To: Flanders, Scott
Cc: Jennison, Michael; Schum, Constantine
Subject: FW: HCC Update
Date: Friday, April 01, 2011 3:25:04 PM

The tax to NRO to cover EDO's Lean Six Sigma will be discussed at the next meeting.

From: Tracy, Glenn
Sent: Friday, April 01, 2011 12:02 PM
To: Salter, Susan; Khan, Charline; Powell, Dawn; Buchholz, Jeri; Cohen, Miriam; Brown, Milton; Burns, Stephen; Campbell, Andy; Carpenter, Cynthia; Dorman, Dan; Grobe, Jack; Hayden, Elizabeth; Holahan, Gary; Howard, Patrick; Krupnick, David; Moore, Scott; Pederson, Cynthia; Poole, Brooke; Powell, Amy; Schaeffer, James; Shay, Jason; Stewart, Sharon; Williams, Barbara; Hudson, Jody; Dapas, Marc; Howell, Art; Mamish, Nader; Wert, Leonard; Uhle, Jennifer; Somerville, Glenda; Lew, David; Ruland, William; Kokajko, Lawrence; Lewis, Robert; Flanders, Scott; Gusack, Barbara; Wert, Leonard; Muessle, Mary
Cc: Davis, Kristin; Royal, Judith; Trent, Glenn; Rubic, Mark; Lopez, Joseph; Mark Rubic
(b)(6) Baker, Pamela; Larche, Linda; Walker, Tracy; Todd, Colleen; Ficks, Ben;
Golder, Jennifer
Subject: HCC Update

HCC Colleagues,

We recognize the significant demands on your time, especially given the ongoing response to the Japan crisis and a potential shutdown deadline on the horizon. As the EDO has pointed out in his updates, the important work of the agency needs to continue, and the HCC has several important matters to discuss. I request you review and comment upon the draft agenda for the April 11 meeting sent by Susan, and ask that you make every effort to attend this meeting. If you cannot attend, please send a senior representative from your office.

The HCC sub-group reviewing hiring requests has been significantly impacted as a result of several members directly working the Japan crisis. I request those acting for the impacted HCC/AG members (Bill Ruland, Lawrence Kokajko, and Scott Flanders) review any proposed Agency hiring requests above the threshold that are provided by the HR staff – thank you.

Below is a list of some key items that will be discussed at the upcoming meeting:

1. Current FTE status and EOY projections.
2. Proposal to shift the hiring limit threshold to 100% FTE starting now, in Q3. This is a result of OCFO and HR coordinated review, considering: a) funding for emergency temporary hires for the Japan crisis; b) funding of the risk review task group at the Commission level; c) funding of 17 FTE for ADM (10 for 3WFN and 7 for 21st Century Acquisition Program); and d) ensuring S&Bs are appropriately covered amidst the ongoing CRs.
3. The transfer of FTE from offices to cover the business process and performance initiatives in the EDO's office. There will be a total of 8 FTE coming from: NRO 2; NRR 2; FSME 1; NMSS 1; NSIR 1; RES 1 (as proposed by OEDO). This reduction would be reflected now, in Q3.

DES/24

4. Review of the SLS positions in the Agency
5. Brief discussion of \$90K award monies currently held in the EDO office to fund agency level special act awards. The proposal is that the HCC will take control of those funds and make efficient joint decisions for agency level special act awards.
6. Current requests for hiring and new process for pension offset requests. FEPCA has decided that offices should submit their request to hire to HCC/AG, if their FTE is over the threshold, before they send the pension offset request to FEPCA. If the threshold is moved to 100% the HCC/AG can expect more of these requests.

As you can see we have some important topics and a few critical decisions amidst the uncertainty of the 2011 and 2012 budgets.

Thank you for your continued support. Please feel free to contact me with any questions and/or concerns. All the best, Glenn
(301) 492-2076

From: Monninger, John
To: Casto, Chuck; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Cook, William; Devercelly, Richard; Ulses, Anthony; Trapp, James; Smith, Brooke; Foggie, Kirk
Cc: Virgilio, Martin; Borchardt, Bill; LIA10 Hoc
Subject: Re: Travel and thoughts
Date: Monday, March 14, 2011 9:30:04 PM

I'm at Dulles gate C14 if anyone wants to get together and chat.

John Monninger

(b)(6)

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

From: Casto, Chuck
To: Monninger, John; Nakanishi, Tony; Kolb, Timothy; Foster, Jack; Cook, William; Devercelly, Richard; Ulses, Anthony; Trapp, James; Smith, Brooke; Foggie, Kirk
Cc: Virgilio, Martin; Borchardt, Bill; LIA10 Hoc
Sent: Mon Mar 14 21:21:10 2011
Subject: Travel and thoughts

Folks, i don't know if and when you might get this email, but here's some thoughts for our work.

Let me know if you need anything. The Chairman and EDO are fully supporting our needs and they clearly expressed that to me.

We are to support the Ambassador in all ways possible.

My flight may be the last to arrive. Seemingly the logistics from Atlanta are difficult. I am on a flight to Dallas now.

Let's think about organization of the team. It seems to me that we need a reactor safety team, protective measures, recovery/severe accident, and liaison team.

First we need briefings by Jim and Tony. Then a briefing by the host. Plus we need an operations center or place to work from. I believe that we have some KI but might need more.

Please think about who is on what group, i.e. Team. Then we probably need to reach back to resources in the US. For instance we may want to set up a bridge with general electric, INPO, and other technical groups.

For the protective measures team let's think about reaching back to DOE/FERMAC for advice.

You get my point. While I don't know the organizational situation over there, absent any other arrangement, let's form teams like we would in the US, and reach back to our counterparts, both federal and industry to accomplish our work. I would suggest using the Hoc Liaison team for coordination. We need to leverage all assets for maximum effect.

John I would suggest that you work with Brooke and Kirk.

Those are merely initial thoughts and suggestions. I know it will likely change immediately upon arrival.

I am anxious to get there and work with this break group and our counterparts back home.

See you soon.

Chuck

BBB/25

From: Erlanger, Craig
To: Layton, Michael; Correa, Richard
Cc: Caldwell, Robert
Subject: FW: FW: DC Cook Emergency Management Outreach
Date: Monday, March 14, 2011 8:53:18 PM
Importance: High

FYI. This is a good thing. Craig

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

From: Cubellis, Louis
Sent: Monday, March 14, 2011 12:28 PM
To: Biddison, John; Nerret, Amanda
Cc: Erlanger, Craig
Subject: FYI: FW: DC Cook Emergency Management Outreach
Importance: High

Would we expect anything less from D.C. Cook?

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

From: Ron Bush (<mailto:rbush@berriencounty.org>)
Sent: Monday, March 14, 2011 12:20 PM
To: pbailey@berriencounty.org; 'Chief Stormont'; 'Capt. Krusinga'; bowerd@michigan.gov; hetorberg@aep.com; 'Mike Bradley'; 'Chris Corteville'; '304 Ronald Bush'; 'Dan Sullivan'; gsanders@berriencounty.org; maysw@michigan.gov; mcandret@michigan.gov; 'DiBrito, Albert M.'; Cubellis, Louis; 'Lt. Barry Reber'; tpost@bridgman.org; conklin@michigan.gov; 'Crissy Hutchinson'; 'Thomas Higinbotham'; dagens@berriencounty.org; rlaumb@berriencounty.org; '183 FREDERICK LAESCH'; dstrain@berriencounty.org; 'Chief Gary Ruhl'; hheyne@lake-township.org; rknuh@bridgman.org; HorhnM@michigan.gov; rpletz@aep.com; collinsj1@michigan.gov; arodriguez@aep.com; ptoliver@berriencounty.org; tganus@berriencounty.org; NixG@Michigan.gov; 'Corey Burks'; jbcathoun@aep.com; WalterA2@michigan.gov; jwchambers@aep.com; '78 DAN JEWELL'; clacobb@aep.com; 'Paul Baker'; 'Erin Yingst'
Subject: FW: DC Cook Emergency Management Outreach
Importance: High

Good Afternoon,

Ms. Hutchinson, the Director of Nuclear Site Services for D.C. Cook, has asked if the members of our planning group would attend a meeting they are hosting. This meeting will be an open forum to answer any questions that Emergency Management, Fire Services or Law Enforcement personnel may have in regards to the recent events in Japan.

This meeting will take place on Tuesday, March 15th at 1:00 p.m. at the D.C. Cook Visitor's Center. This is the same location as our first Tuesday of the month meetings.

If possible, please respond with your ability to attend so the proper arrangements can be made.

Thanks,
Ron

Sgt. Ronald A. Bush - Regional Planner
Berrien County Sheriff's Department
Office of Emergency Management / Homeland Security
2100 E. Empire Ave.
Benton Harbor, MI 49022

BBS/26

Office: 269 983-7141 ext. 4974
Cell: (b)(6) Ex 10
Fax: 269 983-7023
E-mail: rbush@berriencounty.org

From: Cianci, Sandra
To: Virgilio, Martin
Subject: FW: Phone Message: Don Prevatte (Former NRC Contractor)
Date: Monday, March 14, 2011 3:49:21 PM

Marty,

Mr. Prevatte called again and would you like for you to have this information:

As stated by Mr. Prevatte:

"The Hydrogen build up in the reactor buildings is likely due to the dry well head lifting off the flange whenever drywell pressure exceeds approx 65 psig. Due to insufficient torque on head bolts for this condition,

They should relieve pressure before this level in order to prevent future hydrogen explosions."

Sandy Cianci

Administrative Assistant to Marty Virgilio, DEDR
Office of the Executive Director for Operations
O-17 H13
301-415-1714
sandra.cianci@nrc.gov

From: Cianci, Sandra
Sent: Monday, March 14, 2011 1:30 PM
To: Virgilio, Martin
Subject: Phone Message: Don Prevatte (Former NRC Contractor)

Marty,

Don Prevatte called he mentioned he was a former NRC Contractor and has insight on the reactor problem in Japan.

He would like to speak to you directly, feels that he has critical information that could be helpful.

(b)(6)

Sandy Cianci

Administrative Assistant to Marty Virgilio, DEDR

BBB/27

Office of the Executive Director for Operations
O-17 H13
301-415-1714
sandra.cianci@nrc.gov

BBB/28

1). DIABLO CANYON

The design tsunami for DCPD represents the following two classes of tsunamis:

a). Distantly-generated tsunami:

The predominant sources of distantly-generated tsunamis are limited to areas of earthquake and volcanic activity including the Aleutian area, the Kuril-Kamchatka region, and the South American coast.

There is a lack of historical data for the site concerning distantly-generated tsunamis. It was agreed that the probable maximum tsunami at the site would be less than the 17 - 20 foot waves experienced at Crescent City, California, as a result of the 1964 Anchorage, Alaska earthquake, magnitude 9.2. PG&E decided to use 20 feet as the maximum distantly-generated tsunami wave height. (Crescent City is approximately 80 miles north of Eureka, California).

The design basis maximum combined wave runup is 30 feet.

b). Locally-generated tsunami:

Two earthquake sources were considered: (1) Santa Lucia Bank fault located approximately 29 miles from the site, and (2) Santa Maria Basin fault, also known as the Hosgri fault, located approximately 3.5 miles from the site.

Earthquake Source	Vertical Displacement of the Sea Floor	Distance from site	Breakwater height	Maximum Induced Wave Height
Santa Lucia	6.6 feet	29 miles	17.0 MSL (1)	34.6 feet (2)
Santa Maria	7.3 feet	3.5 miles	17.0 MSL (1)	34.6 feet (2)

(1) During scale model testing it was assumed that the breakwater was degraded to a level equal to MLLW.

(2) The design basis maximum combined wave runup is 34.6 feet. The maximum combined wave runup is the greater of the Distantly-generated and Locally-generated tsunamis and is 34.6 feet.

The only safety-related system that has components within the projected sea wave zone is the ASW (Auxiliary Seawater System) system. The ASW pump motors are housed in watertight compartments within the intake structure. The ground floor of the intake structure is +17.5 MSL. The intake structure is designed with an elevated air intake so that the ASW pumps can operate during the design combination tsunami-storm wave runup to elevation +48 feet MLLW (Mean Lower Low Water Level) which corresponds to +45.4 feet MSL. The ASW pumps are mounted at a nominal floor elevation of -2.1 feet MSL. ASW air vent snorkels have openings between elevations 48 and 52 feet MLLW.

Design Earthquake (Operating Basis Earthquake)

Ground motion acceleration at the containment base of 0.2g

Double Design Earthquake (Safe Shutdown Earthquake)

Ground motion acceleration of 0.4g

Hosgri Earthquake

Ground motion acceleration of 0.75g (Richter magnitude of approximately 7.5)

A reactor trip is initiated for a nominal ground acceleration of 0.35g (set at 0.3g)

An earthquake force monitor provides an alarm in the control room at a minimum of 0.01g of ground acceleration.

San Onofre Nuclear Generating Station, Units 2 and 3

Design Basis Information – Natural Phenomena

The following information was compiled from the Updated Final Safety Analysis Report (UFSAR) for the San Onofre Nuclear Generating Station (SONGS), Units 2 and 3, April 2009. These events represent the most significant natural phenomena that form the design basis for SONGS Units 2 and 3.

The applicable Nuclear Regulatory Commission design requirements are found in 10 CFR 50, Appendix A, "General Design Criteria for Nuclear Power Plants." Criterion 2, "Design Bases for Protection Against Natural Phenomena," states that:

Structures, systems, and components important to safety shall be designed to withstand the effects of natural phenomena such as earthquakes, tornadoes, hurricanes, floods, tsunamis, and seiches without loss of capability to perform their safety functions. The design bases for these structures, systems, and components shall reflect: (1) appropriate consideration of the most severe of the natural phenomena that have been historically reported for the site and surrounding area, with sufficient margin for the limited accuracy, quantity, and period of time in which the historical data have been accumulated, (2) appropriate combinations of the effects of normal and accident conditions with the effects of the natural phenomena, and (3) the importance of the safety functions to be performed.

SONGS design

The design bases for SONGS for protection against natural phenomena are in accordance with General Design Criterion 2. Structures, systems, and components important to safety are designed to withstand the effects of natural phenomena such as earthquakes, tornadoes, hurricanes, floods, tsunamis, and seiches without loss of the capability to perform those safety functions necessary to cope with appropriate combinations of natural phenomena and plant conditions. The designs are based upon the most severe of the natural phenomena recorded for the site and surrounding area, with an appropriate margin to account for uncertainties in the historical data. The natural phenomena postulated in the design and the design criteria for the structures, systems, and components affected by each natural phenomenon, are presented in the UFSAR.

Earthquakes

The NRC requires safety-significant structures, systems, and components be designed to take into account: (1) The most severe natural phenomena historically reported for the site and surrounding area, with sufficient margin for the limited accuracy, quantity, and period of time in which the historical data have been accumulated, (2) appropriate combinations of the effects of normal and accident conditions with the effects of the natural phenomena and (3) the importance of the safety functions to be performed. The SONGS seismic design basis is established from extensive historical records of the geology and seismic activity in the region.

The design basis earthquake (DBE) is defined as that earthquake producing the maximum vibratory ground motion that the nuclear power generating station is designed to withstand

without functional impairment of those features necessary to shut down the reactor, maintain the station in a safe condition, and prevent undue risk to the health and safety of the public. The DBE for SONGS was assessed during the construction permit phase of the project. The DBE is postulated to occur near the site (5 miles), and the ground accelerations are postulated to be quite high (0.67g), when compared to other nuclear plant sites in the U.S. (0.25g or less is typical for plants in the eastern U.S.). Based on the unique seismic characteristics of the SONGS site, the site tends to amplify long-period motions, and to attenuate short-period motions. These site-specific characteristics were accounted for in the SONGS site-specific seismic analyses.

The seismic qualification of Category I equipment is evaluated through a combination of testing and analysis to demonstrate the equipment's ability to perform its required function during and after the postulated design basis earthquake (DBE). Seismic Category I equipment is equipment that is essential to the safe shutdown and isolation of the reactor or whose failure or damage could result in significant release of radioactive material. All Seismic Category I equipment at SONGS is designed to function following a DBE with ground acceleration of 0.67g.

The operating basis earthquake (1/2 of the DBE) is characterized by maximum ground shaking of 0.33g. Historically, even this level of ground shaking has not been observed at the site. Based on expert analysis, the average recurrence interval for 0.33g ground shaking at the San Onofre site would be in excess of 1000 years and, thus, the probability of occurrence in the 40-year design life of the plant would be less than 1 in 25.

Tornadoes

Between 1950 and 1975, a total of 177 tornadic storms were reported in California. Of these, 123 caused little or no damage and were virtually all waterspout or funnel cloud observations. Although tornadoes have not been a significant hazard in the region, the design basis tornado for San Onofre Units 2 and 3 has been conservatively established, as follows:

- A. Maximum total wind speed of 260 mi/h
- B. Peripheral tangential velocity of 220 mi/h
- C. Forward translational rate of 40 mi/h
- D. Resultant differential bursting pressure between the inside and outside of structures of 1.5 lb/in.² positive pressure occurring in 4.5 seconds followed by a calm for 3 seconds and a repressurization.

All above-ground Seismic Category I structures at SONGS are designed to withstand tornado pressure loadings and tornado-generated missiles.

The design of all permanent non-Seismic Category I structures, systems, and components not designed for tornado loadings is analytically checked to ensure that: (1) these structures, systems, and components cannot produce missiles, during a tornado, that have more severe effects than the tornado-generated missiles analyzed and (2) their failure will not affect the integrity of adjacent Seismic Category I structures. This design ensures that Seismic Category I structures, systems, and components required for safe shutdown after a tornado will perform their intended functions.

Hurricanes/High Winds

The fastest wind speed measured in the vicinity of the San Onofre site based on a recurrent interval of at least 100 years is approximately 90 mi/h. All structures (other than Seismic Category I) are designed to withstand a basic wind speed of 100 mi/h.

Tropical storms with hurricane force winds (72 mi/h or greater) have not been recorded to approach the southwestern United States. Although hurricanes do exist several hundred miles to the south off of the western coast of Mexico, their impact on the San Onofre area usually only takes the form of a summer thunderstorm.

Probable Maximum Flood

The Probable Maximum Flood (PMF) peak discharge of 71,000 ft³/s in San Onofre Creek was used in determining the maximum flood for the SONGS site. The maximum design basis flood level in the Units 2 and 3 power block is elevation +31.0 feet mean lower low water (mllw). The units are designed such that no impact to structures or safety-related equipment will result from these flood levels.

Tsunami

The San Onofre Units 2 and 3 plant grade is elevation +30.0 feet mllw. The controlling tsunami for San Onofre occurring during simultaneous high tide and storm surge produces a maximum runup to elevation +15.6 feet mllw at the Unit 2 and 3 seawall. When storm waves are superimposed, the predicted maximum runup is to elevation +27 mllw. Tsunami protection for the SONGS site is provided by a reinforced concrete seawall constructed to elevation +30.0 mllw.

From: (b)(6)
To:
Subject: LLW Forum Flash: US Gov't Preparing Response to Japanese Request for Assistance
Date: Monday, March 14, 2011 7:19:20 PM

International/Japan

US Government Preparing Response to Japanese Request for Assistance

Earlier today, the U.S. Nuclear Regulatory Commission issued a press release stating that the Japanese government has formally asked for assistance from the United States as it continues to respond to nuclear power plant cooling issues triggered by the March 11 earthquake and tsunami. As part of a larger U.S. government response, NRC is considering possible replies to the request, which includes providing technical advice.

In addition, NRC Chairman Gregory B. Jaczko and Deputy Energy Secretary Dan Poneman briefed reporters at the White House today on the U.S. response to events in Japan. This briefing will constitute the agencies' sole media appearance for Monday. For additional information, please refer to the White House's transcript of their remarks.

NRC has already dispatched two boiling-water reactor (BWR) experts to Japan as part of a U.S. Agency for International Development (USAID) team to assist with the disaster. The experts are currently in Tokyo offering technical assistance. USAID is the federal government agency primarily responsible for providing help to countries recovering from a disaster.

NRC has been monitoring on a 24-hour-a-day basis the Japanese reactor events via its Headquarters Operations Center in Rockville, Maryland. Yesterday, the agency issued a press release stating in part that the United States is "not expected to experience any harmful levels of radioactivity" from the small releases from the Japanese reactor event.

The NRC will not comment on hour-to-hour developments at the Japanese reactors, as this is an ongoing crisis for which the Japanese have primary responsibility.

Japan experienced issues at several nuclear power plants following an estimated 8.9 magnitude earthquake and tsunami off the eastern Japanese coast on Friday, March 11, 2011. Thereafter, NRC monitored conditions at various U.S. nuclear power plants, spent fuel storage installations, and nuclear materials sites. Personnel at all locations have informed the NRC that conditions remain safe.

For background information on generic operations at a boiling-water reactor, including an animated graphic, please visit the NRC's web site at www.nrc.gov.

March 14, 2011

Todd D. Lovinger, Esq.
Executive Director
LLW Forum, Inc.
(202) 955-7990

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BBS/29

From: Virgilio, Rosetta
To: Rivera, Alison; LIA04 Hoc
Subject: Re: Operations Center coverage for State Liaison Function as of 10 pm 3/14
Date: Monday, March 14, 2011 10:58:20 PM

OK then - I'm fine with Thurs 3/17 7-3

Sent from an NRC Blackberry

Rosetta O. Virgilio

(b)(6)

From: Rivera, Alison
To: Virgilio, Rosetta; Turtill, Richard
Cc: LIA04 Hoc
Sent: Mon Mar 14 22:47:23 2011
Subject: RE: Operations Center coverage for State Liaison Function as of 10 pm 3/14

He did, but I changed his mind for him because we needed coverage on the 3-11 slot. If you can't cover the 7-3 on Thursday, Amanda could probably take it for you or she was willing to take 3-11 slots if Rich wanted it back. I was just trying to avoid having people need to report back in 8 hours after they finished a shift which was complicating the scheduling a little bit when you factored in childcare and other commitment constraints.

FYI - Andy also called me and I'm not sure how much support we'll get from Bill. He doesn't think he should still be on the roster and so we might only get 1-2 shifts.

From: Virgilio, Rosetta
Sent: Monday, March 14, 2011 10:36 PM
To: Rivera, Alison; Turtill, Richard
Cc: LIA04 Hoc
Subject: Re: Operations Center coverage for State Liaison Function as of 10 pm 3/14

Alison - I thought Rich signed up for Thurs 3/17 @ 7-3 unless he changed his mind?

I am good with Tues 3/22 @ 7-3 and you can put me down for Fri 3/25 @ 7-3

Sent from an NRC Blackberry

Rosetta O. Virgilio

(b)(6)

From: Rivera, Alison
To: Turtill, Richard; Rautzen, William; Virgilio, Rosetta; LIA04 Hoc; Noonan, Amanda; Lukes, Kim; Flannery, Cindy; Ryan, Michelle
Cc: Imboden, Andy
Sent: Mon Mar 14 22:05:54 2011
Subject: Operations Center coverage for State Liaison Function as of 10 pm 3/14

Table current as of 10 pm on Monday, March 14

Attached is the latest table, there are still many open slots, particularly evening shift next

BBB/30

week. For next week, if someone needs to do the 3-11pm, I may be able to switch my Tuesday/Thursday shifts to the 11-7 timeslot. If everyone is okay with their timeslots on the attached, we are covered through 3 pm on Friday. Please continue to email me availability and cc: Amanda Noonan since I have the 3 pm-11pm shift tomorrow and may not be able to make changes to the table. Thanks!

From: Turtill, Richard
Sent: Monday, March 14, 2011 2:09 PM
To: Rautzen, William; Virgilio, Rosetta; LIA04 Hoc; Noonan, Amanda; Rivera, Alison; Lukes, Kim; Flannery, Cindy; Ryan, Michelle
Cc: Imboden, Andy
Subject: IMMEDIATE ACTION - Operations Center coverage for State Liaison Function
Importance: High

Bill, Rosetta, Amanda, Alison, Kim, Michelle, and Cindy:

As you are aware, the Japanese event has become high priority for NRC. Accordingly, the Ops Center is seeking coverage for all functions, including the State Liaison role, 24 hours per day, and planning out for the next 2 weeks.

Thank you Bill, Rosetta, and Amanda for your work so far.

I'll be blunt – we're looking to fill the attached table with your names. You cannot work a 12 hour shift in the Ops center, then directly report to your desk and work another 8 hours or so.

Please review the attached and **COMMUNICATE WITH ALISON (e-mail or 415-5108) TODAY** as to your availability. (Either complete the attached and/or send her e-mails. . . she'll figure it out.)

Alison: please contact Rautzen later today to inquire as he may be sleeping since covering the 7:00 pm to 7:00 a.m. shift from yesterday. I have his supervisor, Andy Imboden, on cc.

Thank you for your assistance and support.

I HIGHLY RECOMMEND THAT YOU VISIT WITH WHOEVER IS WORKING THAT POSITION TODAY/TOMORROW AND OBSERVE/WATCH/ASK QUESTIONS. THIS IS AN EXCELLENT OPPTY TO LEARN FROM THIS DIFFICULT AND MOST DISASTROUS EVENT.

ALSO, IF YOU ARE ABLE TO TAKE A PARTIAL SHIFT (say, 7:00 pm to 5:00 am), then yes take the shift and we'll negotiate amongst ourselves.

Rich

From: Wittick, Brian
To: Castelman, Patrick; Warrick, Greg; Marshall, Michael; Hirschman, Thomas; Spodary, Michael; Greer, William; Hargrath, Mike
Cc: Anderson, James; Virgilio, Matt
Subject: Daily Note Highlight
Date: Tuesday, March 15, 2011 4:24:24 PM

As noted below, due to current events the issuance of the VY renewed license will be delayed until next week.

Thanks,

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

(OUO-SID)

On March 11, the staff informed the Commission that it intended to issue a renewed license to the Vermont Yankee Nuclear Power Station (VYNPS) on March 16. In light of recent international events, the staff has decided to delay the issuance of the VYNPS renewed license so that it can better prepare needed communication messages for internal and external stakeholders. The staff will provide advanced notice to the Commission of a rescheduled license issuance date.

BBS/31

From: Muesse, Mary
To: Sheron, Brian; Holahan, Gary; Ramsey, Jack; Evans, Michele; Boger, Bruce; Grobe, Jack; Uhle, Jennifer; Dorman, Dan; Moore, Scott
Cc: Johnson, Michael; Rosales-Cooper, Cindy; Wiggins, Jim; Diec, David; Leeds, Eric; Cullingford, Michael; Astwood, Heather; Sangimino, Donna-Marie; Dehn, Jeff; Haney, Catherine; Smith, Shawn; Miller, Charles; Cool, Donald; Tracy, Glenn; Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte; Owens, Janice; McDevitt, Joan; Virgilio, Martin; Williams, Shawn; Weber, Michael; Anderson, James
Subject: Re: Action Request - Potential Temporary Assignees to OIP
Date: Tuesday, March 15, 2011 2:15:24 PM

I agree. We will reach out to OIP

Sent from NRC BlackBerry
Mary Muesse

(b)(6)

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

From: Sheron, Brian
To: Holahan, Gary; Ramsey, Jack; Evans, Michele; Boger, Bruce; Grobe, Jack; Uhle, Jennifer; Dorman, Dan; Moore, Scott
Cc: Johnson, Michael; Rosales-Cooper, Cindy; Wiggins, Jim; Diec, David; Leeds, Eric; Cullingford, Michael; Astwood, Heather; Sangimino, Donna-Marie; Dehn, Jeff; Haney, Catherine; Smith, Shawn; Miller, Charles; Cool, Donald; Tracy, Glenn; Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte; Owens, Janice; McDevitt, Joan; Virgilio, Martin; Williams, Shawn; Weber, Michael; Muesse, Mary; Anderson, James
Sent: Tue Mar 15 14:11:20 2011
Subject: RE: Action Request - Potential Temporary Assignees to OIP

I agree with Gary. This request should be directed to the EDO, not the program offices.

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

From: Holahan, Gary
Sent: Tuesday, March 15, 2011 1:19 PM
To: Ramsey, Jack; Evans, Michele; Boger, Bruce; Grobe, Jack; Uhle, Jennifer; Dorman, Dan; Moore, Scott
Cc: Johnson, Michael; Rosales-Cooper, Cindy; Wiggins, Jim; Diec, David; Leeds, Eric; Cullingford, Michael; Astwood, Heather; Sheron, Brian; Sangimino, Donna-Marie; Dehn, Jeff; Haney, Catherine; Smith, Shawn; Miller, Charles; Cool, Donald; Tracy, Glenn; Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte; Owens, Janice; McDevitt, Joan; Virgilio, Martin; Williams, Shawn; Weber, Michael; Muesse, Mary; Anderson, James
Subject: RE: Action Request - Potential Temporary Assignees to OIP

Jack,

I think that requests like this need to go to OEDO not to program offices.

Gary

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

From: Ramsey, Jack
Sent: Tuesday, March 15, 2011 11:26 AM
To: Holahan, Gary; Evans, Michele; Boger, Bruce; Grobe, Jack; Uhle, Jennifer; Dorman, Dan; Moore, Scott
Cc: Johnson, Michael; Rosales-Cooper, Cindy; Wiggins, Jim; Diec, David; Leeds, Eric; Cullingford, Michael; Astwood, Heather; Sheron, Brian; Sangimino, Donna-Marie; Dehn, Jeff; Haney, Catherine; Smith, Shawn; Miller, Charles; Cool, Donald; Tracy, Glenn; Doane, Margaret; Mamish, Nader; Dembek, Stephen; Abrams, Charlotte; Owens, Janice; McDevitt, Joan; Virgilio, Martin; Williams, Shawn; Weber, Michael
Subject: Action Request - Potential Temporary Assignees to OIP

BBB/32

Importance: High

All,

Activities involving the evolving situation in Japan are having, and are projected to continue to have, a significant impact upon OIP resources. With this, OIP would like to ask if each of the program offices could identify whether they have staff (preferably staff with international experience) that could be detailed to OIP for a period of, at least initially, 3 to 6 months. Any staff considered for possible rotation to OIP should be aware that they could potentially travel to Japan and be exposed to ionizing radiation. Please note that such identified staff may, or may not, actually be needed. Instead, OIP is hoping to have a list of individuals, with program office blessing, that could be utilized (including with very little or no notice).

If possible, feedback by late this week (Friday morning) would be extremely helpful. Within OIP, Joan McDevitt will be the principal point of contact for this.

Thanks in advance to everyone for their understanding during this challenging time.

Jack

From:

(b)(6)

To:

Subject:

LLW Forum News Flash: NRC Sends Additional Experts to Assist Japan

Date:

Tuesday, March 15, 2011 12:30:25 AM

International/Japan

NRC Sends Additional Experts to Assist Japan

NRC released the following statement via press release late this evening -- March 14, 2011:

Acting as part of a U.S. Agency for International Development assistance team, the NRC has dispatched eight additional experts to Tokyo to provide assistance as requested by the Japanese government.

The first members of the team left the United States Monday evening and were due to arrive in Tokyo Wednesday afternoon. The team includes additional reactor experts, international affairs professional staffers, and a senior manager from one of the NRC's four operating regions.

The team members come from the NRC's headquarters in Rockville, Md., and from offices in King of Prussia, Pa., and Atlanta. The team has been instructed to: conduct all activities needed to understand the status of efforts to safely shut down the Japanese reactors; better understand the potential impact on people and the environment of any radioactivity releases; if asked, provide technical advice and support through the U.S. ambassador for the Japanese government's decision making process, and draw on NRC-headquarters expertise for any other additional technical requirements. The team will be in communication with the Japanese regulator, the U.S. Embassy, NRC headquarters, and other government stakeholders as appropriate.

The team is led by Charles A. Casto, deputy regional administrator of the NRC's Center of Construction Inspection, based in NRC's office in Atlanta. Casto has worked in the commercial nuclear power industry at three different nuclear power plants, including Browns Ferry, which has three boiling water reactors, operated by the Tennessee Valley Authority in Alabama. He has also worked as a licensed reactor operator and operator instructor. Casto will provide a single point of contact for the U.S. Ambassador in Japan on nuclear reactor issues.

The two reactor experts sent Saturday to Japan will participate as members of this assistance team.

March 14, 2011

Todd O. Lovinger, Esq.
Executive Director
LLW Forum, Inc.
(202) 265-7990

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2011/3/33

From: Powell, Amy
To: Weber, Michael; Landau, Mindy
Cc: Muessle, Mary; Andersen, James; Rihm, Roger; Borchardt, Bill; Virgilio, Martin; Ash, Darren; Ellmers, Glenn; Schmidt, Rebecca
Subject: Re: RESPONSE - Senate Hearing on Thursday (?)
Date: Tuesday, March 15, 2011 7:01:54 PM

It is a public briefing for the Senators and it is tomorrow (Wed) at 330pm.

Amy Powell
Associate Director
Office of Congressional Affairs
U. S. Nuclear Regulatory Commission
Phone: 301-415-1673

Sent from my Blackberry

From: Weber, Michael
To: Landau, Mindy
Cc: Muessle, Mary; Andersen, James; Rihm, Roger; Borchardt, Bill; Virgilio, Martin; Ash, Darren; Ellmers, Glenn; Powell, Amy; Schmidt, Rebecca
Sent: Tue Mar 15 18:43:48 2011
Subject: RESPONSE - Senate Hearing on Thursday (?)

I understood that this briefing is tomorrow (Wednesday), not Thursday. Please verify.

From: Landau, Mindy
Sent: Tuesday, March 15, 2011 6:21 PM
To: Muessle, Mary; Andersen, James; Rihm, Roger; Borchardt, Bill; Virgilio, Martin; Weber, Michael; Ash, Darren; Ellmers, Glenn
Subject: Fw: Senate Hearing on Thursday

Sent from my NRC Blackberry

(b)(6)

Mindy.Landau@nrc.gov

From: Harrington, Holly
To: Brenner, Eliot; Burnell, Scott; Couret, Ivonne; Hayden, Elizabeth; McIntyre, David; Chandrathil, Prema; Dricks, Victor; Hannah, Roger; Ledford, Joey; Mitlyng, Viktoria; Screnci, Diane; Sheehan, Neil; Uselding, Lara
Cc: Landau, Mindy
Sent: Tue Mar 15 17:47:20 2011
Subject: Senate Hearing on Thursday

Re: Nuclear Crisis in Japan

Senate Environment and Public Works Committee (Chairwoman Boxer, D-Calif.) will hold a briefing on the ongoing crisis associated with nuclear power facilities in Japan, including potential ramifications for the United States. 3:30 p.m. - 4:05 Division

BBB/34

From: Landau, Mindy
To: Weber, Michael; Gorchinski, Bill; Vindau, Martin; Ann, Dutton; Muesio, Mary
Cc: Rihm, Roger; Elmers, Glenn; Harrington, Holly
Subject: Fw: Senate Hearing on Thursday
Date: Tuesday, March 15, 2011 7:01:23 PM

Looks like the original email was wrong - this Boxer hearing is Wednesday

Sent from my NRC Blackberry

Mindy Landau

(b)(6)

Mindy.Landau@nrc.gov

From: Schmidt, Rebecca
To: Landau, Mindy
Sent: Tue Mar 15 18:53:20 2011
Subject: Re: Senate Hearing on Thursday

Hearing sorta but it is wednesday afternoon.

From: Landau, Mindy
To: Decker, David; Powell, Amy; Schmidt, Rebecca
Cc: Rihm, Roger
Sent: Tue Mar 15 18:50:48 2011
Subject: Fw: Senate Hearing on Thursday

Can you confirm? Is this a new briefing or hearing?

Sent from my NRC Blackberry

Mindy Landau

(b)(6)

gov

From: Harrington, Holly
To: Brenner, Eliot; Bumell, Scott; Couret, Ivonne; Hayden, Elizabeth; McIntyre, David; Chandrathil, Prema; Dricks, Victor; Hannah, Roger; Ledford, Joey; Mitlyng, Viktoria; Screnci, Diane; Sheehan, Neil; Uselding, Lara
Cc: Landau, Mindy
Sent: Tue Mar 15 17:47:20 2011
Subject: Senate Hearing on Thursday

New: Nuclear Crisis in Japan

Senate Environment and Public Works Committee (Chairwoman Boxer, D-Calif.) will hold a briefing on the ongoing crisis associated with nuclear power facilities in Japan, including potential ramifications for the United States. 3:00 p.m., 406 Dirksen

BBB / 35

From:
To:
Subject:
Date:

(b)(6)

LLW Forum News Flash: EnergySolutions Stakeholder Forum Scheduled for 3/16/11
Tuesday, March 15, 2011 5:05:58 PM

Northwest Compact/State of Utah

Energy Solutions' Stakeholder Forum Scheduled for March 16

The Utah Department of Environmental Quality (DEQ) recently announced the formation of an EnergySolutions Stakeholder Forum ("the forum"). The purpose of the forum is to share information with key opinion leaders and stakeholder groups related to licensing and other environment issues at EnergySolutions. It is not intended to serve as a substitute for Public Notice and Comment periods, but rather to provide a mechanism for sharing information and perspectives on an ongoing basis.

The first meeting will be held on Wednesday, March 16, beginning at 5:30 p.m. The meeting -- which will focus on environmental issues -- will be held in the DEQ Board Room, 195 North 1950 West in Salt Lake City.

The agenda for the forum is as follows:

- welcome and introductions
- purpose and goals of stakeholder forum
 - why: LEAN process
 - overview of purpose, goals, what to expect
 - related:
 - new website: www.deq.utah.gov/issues/energysolutions
 - new list serve: www.deq.utah.gov/ListServ/index.htm#es
 - group discussion and feedback
- presentation on the Studsvik process
- overview of recent compliance action
- status reports and upcoming issues
 - new date for the Performance Assessment submission
 - currently in comment: 2 items with DSHW (1) additional leachate storage tanks; (2) contingency plan revisions. Comment period for both closes in early/mid April
 - recently approved
 - by DSHW: annual surety update, revised groundwater monitoring network, thermal desorption final permitting
 - by DAO: revision to our air approval order to add dust control equipment to our cement batch plant
 - pending
 - comment period for minor changes to RML and GW permit -- revising environmental monitoring plan and removing gross alpha as a groundwater monitoring parameter
- next meeting
 - date
 - suggested topic

Although DEQ sent specific invitations to new forum members, the meetings will be open to the public. DEQ expects the meetings to be concluded in under 2 hours.

For additional information, please contact Rusty Lundberg of the Utah Department of Environmental Quality, Radiation Control Board, at (801) 536-4250 or at lundberg@utah.gov.

March 15, 2011

Todd D. Lowinger, ESQ
Executive Director
LLW Forum, Inc.
(202) 268-7990

603/36

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From: Coyne, Kevin
To: Marsberry, Don; Bessley, Benjamin; Peters, Sean; Ott, William; Salby, Mark; Henry, Kuzma; Alan
Cc: Loarra, Jose; Case, Doug; Correia, Richard
Subject: Fw: IRC Staffing
Date: Tuesday, March 15, 2011 7:48:43 PM

BC's -

Please see below request from Brian and note that IRC experience/trng is not needed. Please identify folks that could support the irc effort and provide their names, availability, and shift preferences to Jose by 11 am Wednesday morning. We are looking for systems analysis, severe accidents, radiological dose assessment experience.

Also, we'll need to provide a standby list for folks willing to go to Japan - very strong technical skills and good communications ability are a must.

Thanks!

Kevin

Sent from an NRC Blackberry
Kevin Coyne

(b)(6)

From: Sheron, Brian
To: Coyne, Kevin; Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Lui, Christiana; Richards, Stuart; Sangimino, Donna-Marie; Scott, Michael; Uhle, Jennifer; Valentin, Andrea
Cc: Dion, Jeanne
Sent: Tue Mar 15 17:27:11 2011
Subject: IRC Staffing

I participated on a conference call with other ODs and led by Michele Evans, acting deputy OD in NSIR at 4 pm today.

The purpose of the conference call was to discuss staffing for the IRC for the near future. The IRC is currently staffed with members of the Reactor safety team, the Protective Measures team, Liaison Team, etc. There is also an ET member there. None of the teams are at their full compliment. What Michele is looking for is people that can staff the IRC and relieve the staff that are currently there. She said they are currently running 3 shifts (11pm-7am, 7am - 3pm, and 3pm to 11 pm). They would like to find staff that can work shifts for 4 days in a row (I think she wants 4 days on, 3 days off). She said the staff do not have to have had IRC training.

Several of us said we would certainly canvas our staff to see who was qualified to work in the IRC and could work there, but we needed to know what technical disciplines they were looking for. Michele did not have a list of needed disciplines, but said she would generate one and send it out. As of 5:15 pm I have not received a list yet.

However, I am assuming they will be looking for staff with expertise in such areas as systems analysis, severe accidents, radiological dose assessment, etc. In anticipation that these are the technical disciplines of interest, can you please start identifying your staff that you believe have some of the requisite skills needed for the IRC, and start asking if

POB/37

they would be available to work shifts in the IRC if asked to. HR said they would be eligible for normal overtime compensation.

Also, they will be looking for staff to go to Japan and relieve the technical staff that recently went there. There were 2 BWR experts that left over the weekend, and a team of 9 more (6 engineers and 3 OIP staff) left yesterday. The thinking is that the staff that recently went over would come back in 2 weeks, which is when they want to send a replacement team over there. So please check to see if you have any staff with the proper technical credentials, are reasonably good communicators, and would be willing to spend about 2 weeks in Japan as part of the team there.

I will forward the list of desired disciplines as soon as I receive them from Michele. Michele said she will be looking for the list of potential IRC replacements by COB tomorrow (3/16/11), thus, I will need your candidates by mid-afternoon.

For the team that will replace the one that was just sent to Japan, she said she would like us to update the list we previously sent by COB 3/17.

Scott, Michael

From: Jim C Kinsey [Jim.Kinsey@inl.gov]
Sent: Wednesday, March 16, 2011 8:01 AM
To: Scott, Michael
Cc: Williams, Joseph; Rubin, Stuart; Basu, Sudhamay; Zaki, Tarek; Reckley, William
Subject: RE: NGNP Project Call on March 16?

Mike,

Thanks - I'll still initiate the call as scheduled, understanding that we may have very limited participation and a short discussion.

Jim



Jim Kinsey
Regulatory Affairs Director - Next Generation Nuclear Plant Project
2525 Fremont Ave., P.O. Box 1625, Idaho Falls, ID 83415-3730
Phone: (208) 526-9683 Fax: (208) 526-9683
Cell: (b)(6) E-mail: jim.kinsey@inl.gov

"Scott, Michael" <Michael.Scott@nrc.gov>

03/15/2011 06:55 PM

To: "Jim C Kinsey" <Jim.Kinsey@inl.gov>, "Williams, Joseph" <Joseph.Williams@nrc.gov>
cc: "Reckley, William" <William.Reckley@nrc.gov>, "Basu, Sudhamay" <Sudhamay.Basu@nrc.gov>, "Rubin, Stuart" <Stuart.Rubin@nrc.gov>, "Zaki, Tarek" <Tarek.Zaki@nrc.gov>
Subject: RE: NGNP Project Call on March 16?

Jim:

Copying Stu Rubin and Tarek Zaki, in case they can support. Otherwise RES cannot for reasons you stated. I don't know about NRR.

Mike

From: Jim C Kinsey [mailto:Jim.Kinsey@inl.gov]
Sent: Tuesday, March 15, 2011 2:47 PM
To: Scott, Michael; Williams, Joseph
Cc: Reckley, William; Basu, Sudhamay; Janelle.Zamore@nnsa.doe.gov
Subject: NGNP Project Call on March 16?

Mike, Joe,

Based on NRC response activities related to events in Japan, along with NRO and RES staff attendance at the HTGR dust workshop, will NRC still be able to support our regular bi-weekly NGNP project call, or should we cancel for tomorrow (March 16)?

Thanks

BBB/38

Jim



Jim Kinsey

Regulatory Affairs Director - Next Generation Nuclear Plant Project

2525 Fremont Ave., P.O. Box 1625, Idaho Falls, ID 83415-3730

Phone: (208) 526-6882 Fax: (208) 526-9683

Cell: (b)(6) e-mail: jim.kinsey@inl.gov

Ex 4

From: Virgilio, Martin
To: Sandra, Sandra
Subject: FW: Gil Zigler - Alion Science and Technology
Date: Wednesday, March 16, 2011 5:25:00 AM

Sandy

Please contact Gil and obtain an e mail address. It will be easiest for us to communicate by e mail while I am on the night shift

Marty

From: Cianci, Sandra
Sent: Tuesday, March 15, 2011 1:37 PM
To: Virgilio, Martin
Subject: Gil Zigler - Alion Science and Technology

Marty,

Please call Mr. Zigler at



Message regarding Product Support Service as requested by Japan.

Sandy Cianci

Administrative Assistant to Marty Virgilio, DEDR

Office of the Executive Director for Operations

O-17 H13

301-415-1714

sandra.cianci@nrc.gov

BBB/39

From: Erlanger, Craig
To: Correia, Richard; Layton, Michael
Subject: Fw: Additional Staff requirements outside Ops Center Long Term Staffing
Date: Wednesday, March 16, 2011 6:01:46 PM

Other than John (see below), others do not have PA experience but really want to help. As of now, they include: Stella, Mandy, Mark R., and Perry.

Craig

Sent from an NRC blackberry

(b)(6)
Craig Erlanger

From: Tomlinson, John
To: Erlanger, Craig
Sent: Wed Mar 16 11:50:57 2011
Subject: RE: Additional Staff requirements outside Ops Center Long Term Staffing

Craig, I was the DAD for USSS in Public Affairs and still do some media relations. Not sure that is what they are looking for, but wanted you to have it jic. I did not see attachment for "position quals" so I am speculating a bit.

From: Erlanger, Craig
Sent: Wednesday, March 16, 2011 10:51 AM
To: Baxter, Brad; Biddison, John; Chalk, Wayne; Coffin, Monika; Cubellis, Louis; Harris, Paul; Lee, Eric; Nerret, Amanda; Opara, Stella; Pederson, Perry; Resner, Mark; Rycyna, John; Tomlinson, John
Subject: FW: Additional Staff requirements outside Ops Center Long Term Staffing

Please let me know ASAP. Thanks

From: Correia, Richard
Sent: Wednesday, March 16, 2011 10:50 AM
To: Wastler, Sandra; Caldwell, Robert; Erlanger, Craig; Huyck, Doug; Shropshire, Alan
Subject: FW: Additional Staff requirements outside Ops Center Long Term Staffing

Please let me know ASAP if we have anyone that meets the "quals" below to assist OIP and if they would be willing to assist.

thx

From: Rheaume, Cynthia
Sent: Wednesday, March 16, 2011 10:45 AM
To: Holahan, Patricia; Layton, Michael; Correia, Richard; Westreich, Barry
Subject: RE: Additional Staff requirements outside Ops Center Long Term Staffing

All - Do we have anyone who would fit the bill?

Cynthia Rheaume
Director, Program Management, Policy
Development and Analysis

BBS/40

Nuclear Security and Incident Response
(301)415-6538
Cynthia.Rheaume@nrc.gov



From: Evans, Michele
Sent: Wednesday, March 16, 2011 9:38 AM
To: Abraham, Susan; Rheaume, Cynthia
Cc: Holahan, Patricia; Correia, Richard; Layton, Michael; Westreich, Barry
Subject: FW: Additional Staff requirements outside Ops Center Long Term Staffing
Importance: High

Susan/Cyndi,

Please handle this for NSIR and respond if we have anyone. Maybe other parts of NSIR (not DPR) can help out with this request.

thanks

From: Muessle, Mary
Sent: Wednesday, March 16, 2011 9:32 AM
To: Evans, Michele; Hackett, Edwin; Brenner, Eliot; Schmidt, Rebecca; Powell, Amy; Droggitts, 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; Veitri, 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 Muessle
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

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; Muessle, 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; Casoy, 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: D.Delattre@iaea.org
To: raja.dg@aelb.gov.my; michel.briere@irsn.fr; Jukka.Laaksonen@stuk.fi; Andre-Claude.LACOSTE@asn.fr;
James.Solit@nnsa.doe.gov; carlos.tvidal@mae.es; lavinhas@cnen.gov.br; Virgilio.Martin
Cc: Lasse.Reiman@stuk.fi; Mari.Andersin@stuk.fi; Isabelle.FOREST@asn.fr; (b)(6)
Shawn.Williams@nrc.gov; E.Buglova@iaea.org; P.Hahn@iaea.org;
E.Klimscha@iaea.org; Y.HAMMAL@iaea.org
Subject: IAEA Joint AdSec CSS Task Force meeting postponed
Date: Wednesday, March 16, 2011 3:33:50 AM

Dear all

Due to the circumstances it would seem very difficult to hold the AdSec CSS task Force meeting as initially planned this Friday. The meeting is postponed to a later date still to be determined.

Kind regards.

Dominique Delattre

From: DELATTRE, Dominique Jules
Sent: Monday, 07 March 2011 11:08
To: 'raja.dg@aelb.gov.my'; 'Michel Briere'; 'Jukka.Laaksonen@stuk.fi'; 'Andre-Claude.LACOSTE@asn.fr';
'James.Solit@nnsa.doe.gov'; 'carlos.tvidal@mae.es'; Vinhas, L.A.; 'martin.virgilio@nrc.gov'
Cc: 'Lasse.Reiman@stuk.fi'; 'Mari.Andersin@stuk.fi'; 'FOREST Isabelle'; (b)(6)
(b)(6) Shawn.Williams@nrc.gov; NILSSON, Anita Birgitta; BUGLOVA, Elena; HAHN,
PIL-Soo; LYONS, James E.; MRABIT, Khammar; MOORE, George M.; ASFAW, Katherine Elizabeth;
LURASCHI, Eduardo R.; KLIMSCHA, Frances; HAMMAL, Yvonne
Subject: Update on the IAEA Joint AdSec CSS Task Force meeting on 18 March 2011

Dear all.

Considering that all participants will indeed arrive for the meeting at the latest on 17 March, it is now planned to start the meeting at 8:30 AM instead of 9:30. This will give more chance to being able to close the meeting before 5PM.

The revised draft agenda attached reflects this change.

Kind regards.

Dominique Delattre

From: DELATTRE, Dominique Jules
Sent: Thursday, 10 February 2011 09:18
To: 'raja.dg@aelb.gov.my'; 'Michel Briere'; 'Jukka.Laaksonen@stuk.fi'; 'Andre-Claude.LACOSTE@asn.fr';
'James.Solit@nnsa.doe.gov'; 'carlos.tvidal@mae.es'; Vinhas, L.A.; 'martin.virgilio@nrc.gov'
Cc: 'Lasse.Reiman@stuk.fi'; 'Mari.Andersin@stuk.fi'; 'FOREST Isabelle'; (b)(6)
(b)(6) Shawn.Williams@nrc.gov; NILSSON, Anita Birgitta; BUGLOVA, Elena; HAHN,

BBB/41

Pil-Soo; LIPAR, Miroslav; MRABIT, Khammar; MOORE, George M.; ASFAW, Katherine Elizabeth;
LURASCHI, Eduardo R.; KLIMSCHA, Frances; HAMMAL, Yvonne .
Subject: IAEA - Joint AdSec CSS Task Force meeting on 18 March 2011

Dear Joint AdSec CSS Task Force participants

In preparation of the next joint AdSec CSS task force meeting to be held on 18 March 2011, we are pleased to welcome M. Michel Briere as a new member. We are also pleased to provide you with a tentative agenda for the meeting. Material for the meeting is available in a dedicated folder on the joint task force web page (<http://www-ns.iaea.org/committees/css-adsec/comments/default.asp?id=1034>).

The posted information includes an excerpt from the draft report from the AdSec Working Group meeting that was held in January 2011. The contents of the draft report will be further considered by AdSec at its next meeting that will be held just before the joint AdSec CSS task force meeting. The excerpt is provided so that everyone will have a head start in refining their views on the subjects, but please do not consider these to be the final AdSec opinions.

Considering the number of other events in Vienna at that time, we would also advise you to book your hotel as soon as possible.

Kind regards,

Dominique Delattre and George Moore

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From: Harrington, Holly
To: Virgilio, Martin; McIntyre, David; Brenner, Eliot; Sheehan, Neil
Cc: Casto, Chuck
Subject: RE: Request from 60 Minutes
Date: Wednesday, March 16, 2011 10:06:22 AM

Marty—we got it. thanks

From: Virgilio, Martin
Sent: Wednesday, March 16, 2011 10:06 AM
To: McIntyre, David; Brenner, Eliot; Harrington, Holly; Sheehan, Neil
Cc: Casto, Chuck
Subject: Fw: Request from 60 Minutes

Dave

Can you please assist us on this one

Marty

From: Casto, Chuck
To: Virgilio, Martin; Miller, Charles
Sent: Wed Mar 16 09:55:56 2011
Subject: Fw: Request from 60 Minutes

Elliott's and Beth's email kicks back.

From: Young, Nicole <ney@cbsnews.com>
To: Casto, Chuck
Sent: Wed Mar 16 09:49:39 2011
Subject: Request from 60 Minutes

Dear Mr. Casto,

My name is Nicole Young with 60 Minutes and my team and correspondent, Scott Pelley, are currently on the ground in Sendai, Japan.

We would like to see if there's any way we can link up with you and your NRC staff on the ground. We are one of the last news teams on the ground covering this urgent and important situation.

Please, let me know if there's any way we can arrange for our team to meet up with yours.

Thank you and I hope to hear from you soon.

Best,
Nicole Young

(b)(6)

BBB/42

From: Trapp, James
To: Wittick, Brian
Subject: RE: Launch of FAQ Related to Events Occurring in Japan
Date: Wednesday, March 16, 2011 9:23:54 PM

Thank you very much. You are a good friend.

From: Wittick, Brian
To: Trapp, James
Sent: Wed Mar 16 10:44:10 2011
Subject: RE: Launch of FAQ Related to Events Occurring in Japan

Can't believe I came in Monday and you were gone. Hope all is going well. I am sure will have stories from this you will be telling your great grand kids. Heard from Tom that your (b)(6) is taken care of. Let us know if we can do anything to support. Also, FYI I have heard plans ranging from 2 to 4 weeks for the duration of your stay there.

Best

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

From: Trapp, James
Sent: Wednesday, March 16, 2011 9:34 AM
To: Wittick, Brian
Subject: RE: Launch of FAQ Related to Events Occurring in Japan

Hope you are doing well! This was an exciting endeavor! Lots of crazy stories! Take care!

From: Wittick, Brian
To: OIP Distribution
Cc: Trapp, James; Wittick, Susan
Sent: Wed Mar 16 08:29:23 2011
Subject: RE: Launch of FAQ Related to Events Occurring in Japan

Brooke/Kirk,

Attached are a couple of the referenced documents on the Sharepoint site that may be useful to you. Recommend you coordinate with the HOC International Liaisons to get updates and new postings.

Thanks

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

From: Smith, Brooke
Sent: Tuesday, March 15, 2011 11:35 PM
To: Wittick, Brian
Subject: RE: Launch of FAQ Related to Events Occurring in Japan

Brian - Please send these in a word document or in a format that we can read on a BB here in Japan. Thx.

Sent from an NRC Blackberry.

Brooke G. Smith
(b)(6)

From: Wittick, Brian
To: Wittick, Susan; OIP Distribution
Sent: Tue Mar 15 14:02:36 2011
Subject: FW: Launch of FAQ Related to Events Occurring in Japan

Please note the below link to FAQ data. Please share as necessary.

Brian Wittick
Executive Technical Assistant for Reactors

888/43-

Office of the Executive Director for Operations
U.S. Nuclear Regulatory Commission
301-415-2496 (w/ (b)(6)) *

From: Nguyen, Quynh

Sent: Tuesday, March 15, 2011 1:16 PM

To: Thomas, Eric; Sigmon, Rebecca; Powell, Amy; Riley (OCA), Timothy; Browder, Rachel; Erickson, Randy; Tiff, Doug; McNamara, Nancy; Trojanowski, Robert; Woodruff, Gena; Barker, Allan; Logares, Herma; Maier, Bill

Cc: Stone, Rebecca; Westreich, Barry; Scales, Kerby; Leeds, Eric; Boger, Bruce; Grobe, Jack; Dier, David; Deegan, George; Williams, Donna; Rini, Brett; Wittick, Brian; Andersen, James; Brenner, Eliot; Couret, Ivonne; Burnell, Scott; Harrington, Holly; Azem, Almas; Cartwright, William; Cusumano, Victor; Heida, Bruce; Mahoney, Michael; Meighan, Sean; Nguyen, Quynh; Rodriguez, Carla; Susco, Jeremy; Titus, Brett; Valentine, Nicholas; Wertz, Trent; Bahadur, Sheri; Blount, Tom; Brown, Frederick; Check, Michael; Evans, Michele; Galloway, Melanie; Glitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Law, Samson; Lubinski, John; Lund, Louise; McGinty, Tim; Nelson, Robert; Quay, Theodore; Rutland, William; Skoen, David

Subject: Launch of FAQ Related to Events Occuring in Japan
Importance: High

All,

Per Eric Leeds' request and working closely with NSIR and OPA...

The below SharePoint link is the location of our INTERNAL USE ONLY activities regarding the Japan Events and the effects on their nuclear operations. Again, NO PUBLIC RELEASE of any documents.

Given lessons learned from 9-11, we want to ensure clear, concise messages in alignment with the Chairman and focus of our safety mission in the United States. To this end, we established this SharePoint as a centralized location to collect our questions from stakeholders and our draft responses. These draft responses will be vetted by OPA and once approved by OPA - it is OK for use by the staff to answer questions from stakeholders.

As such, please understand that, while we are doing our best to be timely with the most up-to-date information, it is more important to ensure accurate information is being posted.

<http://portal.nrc.gov/edoint/NRR%20IA/FAQ%20Related%20to%20Events%20Occurring%20in%20Japan/Forms/AllItems.aspx>

Note: "Chairman JaczkoOA7_031511" contains parts that are PUBLIC and additional information for NRC staff.

All correspondence to the public should be directed to our Office of Public Affairs (OPA)

Additionally, if questions arise out of the Region, please let us know. We'll do our best to coordinate the answer and ensure that we get OPA's blessing

Thank you for all your support during this time and understanding!

POC:

Quynh Nguyen (301) 415-5844, BlackBerry
Sean Meighan (301) 415-1020

(b)(6) *

From: Muessle, Mary
To: EDO Distribution
Subject: Note of Appreciation
Date: Thursday, March 17, 2011 3:26:25 PM

I speak on behalf of Bill and I, and I know all the EDO management, as we express our sincere thanks for all the efforts you have been making to assist in our response efforts and to take on other duties as assigned to keep the office running smoothly. We are proud to work with such dedicated and competent staff. In Swahili, there is a word used to express great thanks. I offer it to you today, Nashukuru- With Great Thanks.
Mary

Sent from NRC BlackBerry
Mary Muessle

(b)(6)



BBB/44

From: Virgilio, Martin
To: Spencer, Rick; martin@caijing.com.cn
Subject: Fwd: interview request from Caijing Magazine China
Date: Thursday, March 17, 2011 2:27:45 PM

For appropriate action

Thanks

M

From: 朱 <yuzhu@caijing.com.cn>
To: Virgilio, Martin
Sent: Thu Mar 17 14:15:17 2011
Subject: interview request from Caijing Magazine China

Dear Mr. Martin J. Virgilio,

I'm Eunice Zhu, a reporter in Beijing from Caijing which is the best economic and financial Magazine in China. Here I have several questions about Japan's nuclear accident, and I wonder if you can accept my sincere interview request. It will be a great honor for our magazine to have your insight on this issue.

My question is as following:

1. In your opinion, are the reactors at the Fukushima No. 1 nuclear plant now under control? It is said Tokyo Electric Power has juggled the data of the nuclear plant for several times and hid an accident before, obviously it hasn't been regulated by the government effectively, what do you think of that?
2. After Japan's nuclear accident, German Chancellor Angela Merkel has announced a three-month moratorium on the extension of the operation periods for German nuclear plants. Is there any standard or regulation to define the operation periods of nuclear plant? Chinese government also decided to examine the existing nuclear power plants and stop approval of new nuclear plants, What do you think of Germany and China's decision?
3. What will be the worst trend of Fukushima No. 1 nuclear plant? Will it be closed down like Chernobyl nuclear plant?
4. Would you please introduce details about the permanent closure of a nuclear power plant?
5. What do you think of the Japan's performance of response to the accident?
6. What are the differences among Fukushima No. 1, Three Mile Island, Chernobyl nuclear accidents?
7. Will the boiling water reactor technology be abandoned or improved after this accident?
8. What are the respective safety performance of boiling water reactor and

BBB/45

pressurized water reactor, especially facing an earthquake or tsunami?

9. Will Japan's nuclear accident affect the nuclear policy and nuclear industry in the world?

10. What will NRC do to deal with such situation? For instance, to Strengthen the supervision of nuclear plant safety?

Thank you very much and I'm looking forward to your reply.

Best wishes,

Eunice Zhu

Caijing Magazine

<http://www.caijing.com.cn/>

19th Floor, Prime Tower, 22 Chaoyangmenwai Street,

Beijing, 100020

Tel: 0086 010 85650655

Mobile: (b)(6)

Email: yuzhu@caijing.com.cn

From: Coyne, Kevin
To: Wilson, Peter
Cc: Schmidt, Wayne; Stutzke, Martin; Beasley, Benjamin; Kauffman, John; Coe, Doug; Cornish, Richard; McNamara, Nancy; Tiff, Doug
Subject: GI-199 Background Information
Date: Thursday, March 17, 2011 1:59:57 PM
Attachments: GI-199 Public Meeting Slides Oct 6 2010 ML102770655.pdf
GI-199 RIC Slides March 8 2011.pdf

Pete -

As we discussed, John Kauffman and Ben Beasley will support the 3:00pm call with New York state this afternoon - they are also trying to see if John Ake (who provided seismology support) is also able to support the call. The GI-199 report and several items are available on the Generic Issues website and can be found at:

<http://www.internal.nrc.gov/RES/projects/GIP/Individual%20GIs/GI-0199.html>

The website doesn't include the presentation slides that were used at the meeting, but I've attached them for convenience (they are available in ADAMS). There was also a much shorter presentation at the RIC - unfortunately, the presentation slides were misfiled on the NRC's RIC website, so I've also attached a scanned version of his slides.

Marty went down to congress this afternoon to help with some briefings (so unfortunately he can't help with the call), but you may be able to catch him for quick questions on his BlackBerry (b)(6)

Please let me know if there is anything else you need at this point -

Kevin

Kevin Coyne, P.E., Ph.D.
Chief, Probabilistic Risk Assessment Branch
Division of Risk Analysis, Office of Nuclear Regulatory Research
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
(301) 251-7586 (work)

(b)(6) (cell) *

BBB/46

From: Wiggins, Jim
To: Ceresa, Richard; Holahan, Patrick; McDermott, Brian; Rheaume, Cynthia; Evans, Michele
Subject: FW: Japan event Q&As - additional info
Date: Thursday, March 17, 2011 5:41:50 PM

From: Leeds, Eric
Sent: Thursday, March 17, 2011 2:38 PM
To: Dean, Bill; McCree, Victor; Satorius, Mark; Collins, Elmo; Lew, David; Wert, Leonard; Pederson, Cynthia; Howell, Art; Boger, Bruce; Grobe, Jack; Wiggins, Jim; Evans, Michele; Sheron, Brian; Uhle, Jennifer; Johnson, Michael; Holahan, Gary; Haney, Catherine; Dorman, Dan; Miller, Charles; Moore, Scott; Doane, Margaret; Mamish, Nader; Boyce, Thomas (OTS); Schmidt, Rebecca; Powell, Amy; Brenner, Eliot; Hayden, Elizabeth; McDermott, Brian
Cc: Virgilio, Martin; Weber, Michael; Ash, Darren; Nguyen, Quynh; Meighan, Sean; Kammerer, Annie; Landau, Mindy; Wittick, Brian; Morris, Scott; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Galloway, Melanie; Gitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Quay, Theodore; Ruland, William; Skeen, David
Subject: Japan event Q&As - additional info

I've assigned Bob Nelson, Deputy Director, Division of Operating Reactor Licensing, as the NRR Coordinator for External Communications related to NRR's response to the recent events in Japan. 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. Assisting Nelson will be Sean Meighan and Quynh Nguyen from the NRR front office, Eric Thomas from DIRS and a communications "tiger team" being formulated in DORL headed by Mike Markley. Harold Chernoff will also provide assistance as needed. Please forward all of your requests for support in this area to Nelson. (Extension 7298 and cell (b)(6))

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

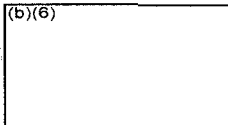
Bob/47

From: Cathy Sanders
To: Virgilio, Marty
Subject: Phone Message: Please Call Bill Kane
Date: Friday, March 18, 2011 12:24:27 PM

Marty,

He is aware that you are working night shift. He asked if you could call him when you are able.

Bill Kane



Sandy Cianci
Administrative Assistant to Marty Virgilio, DEDR
Office of the Executive Director for Operations
O-17 H13
301-415-1714
sandra.cianci@nrc.gov

BBB/4.8

From: LIA02 Hoc
To: Shaffer, Mark R
Cc: Virgilio, Martin; LIA02 Hoc
Subject: RE: IAEA Team in Japan
Date: Friday, March 18, 2011 2:29:59 AM

Mark,

The HOO is lined up to support the 0830 call. Request you ask Jim Lyons and Deny Flory to call in on ~~(301)816-5100~~ and the HOO will patch the call together.

Thanks
Brian Wittick

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Friday, March 18, 2011 2:11 AM
To: LIA03 Hoc
Cc: LIA02 Hoc; Virgilio, Martin
Subject: RE: IAEA Team in Japan

Jim said earlier than 9:00 am so I think 8:50 am would be the answer

This email is UNCLASSIFIED.

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Friday, March 18, 2011 7:09 AM
To: Shaffer, Mark R
Cc: LIA02 Hoc; Virgilio, Martin
Subject: RE: IAEA Team in Japan

Will 8:30 a.m. work for Jim? Or 10:00 a.m.?

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Friday, March 18, 2011 2:06 AM
To: LIA03 Hoc
Cc: LIA02 Hoc; Virgilio, Martin
Subject: RE: IAEA Team in Japan

I didn't ask to be difficult. I just know that Lyons, Flory, Buglove, etc. have a daily meeting at 9:00 am to go over plant status and the response to this event. I just spoke with Jim and he confirmed that he and Flory both are not available at 9:00 am and he is not in his office most the day. If Marty could call earlier than 9:00 am Jim can talk.

Jim Lyons's cell phone number is (b)(6)

This email is UNCLASSIFIED.

BBB/49

From: Shaffer, Mark R
To: Shaffer, Mark R; LIA03 Hoc
Cc: LIA02 Hoc; Virgilio, Martin
Subject: RE: IAEA Team in Japan
Date: Friday, March 18, 2011 2:31:33 AM

I just talked to Jim and confirmed that 8:30 am is good for a call with Marty. Also, he is going to try to have Flory on the call as well. I sent you Jim's cell phone number (b)(6). However, Jim said that for this call, please contact him at the office so that they can use the speaker phone. Lyon's office number is +43-12600-22520. Jim also said that he would loop back with me before 8:30 to let me know if Flory wants the call to take place in his office. If this occurs, Flory's office number is +43-1-2600-22700. I'll keep you posted.

This email is UNCLASSIFIED.

From: Shaffer, Mark R
Sent: Friday, March 18, 2011 7:11 AM
To: 'LIA03 Hoc'
Cc: LIA02 Hoc; Virgilio, Martin
Subject: RE: IAEA Team in Japan

Jim said earlier than 9:00 am, so I think 8:30 am would be the answer.

This email is UNCLASSIFIED.

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Friday, March 18, 2011 7:09 AM
To: Shaffer, Mark R
Cc: LIA02 Hoc; Virgilio, Martin
Subject: RE: IAEA Team in Japan

Will 8:30 a.m. work for Jim? Or 10:00 a.m.?

From: Shaffer, Mark R [mailto:ShafferMr@state.gov]
Sent: Friday, March 18, 2011 2:06 AM
To: LIA03 Hoc
Cc: LIA02 Hoc; Virgilio, Martin
Subject: RE: IAEA Team in Japan

I didn't ask to be difficult. I just know that Lyons' final bugle was to have a daily meeting at 9:00 am to go over plant status and the response to this event. I just spoke with Jim and he confirmed that he and Flory both are not available at 9:00 am and he is not in his office most of the day. If Marty could call back then 9:00 am, Jim can talk.

BBB/50

Jim Lyon's cell phone number is (b)(6)

This email is UNCLASSIFIED.

From: LIA03 Hoc [mailto:LIA03.Hoc@nrc.gov]
Sent: Friday, March 18, 2011 6:48 AM
To: Shaffer, Mark R
Cc: LIA02 Hoc
Subject: RE: IAEA Team in Japan

Marty Virgilio would like to speak with Jim Lyons at 9:00 a.m. Vienna time, 3:00 a.m. Rockville time. If Jim is not available, then he would like to talk Denny Flory. Mr. Virgilio did not share the topic of the conversation.

We would like to set up the appointment

From: Cubellis, Louis
To: Barker, Brad; Burtison, John; Chab, Wayne; Coffin, Monica; Cubellis, Louis; Engager, Craig; Harris, Paul; Lee, Eric; Hermit, Amanda; Orsini, Stella; Pederson, Perry; Redfern, Francis; Prescott, Mark; Ryckna, John; Tomlinson, John
Cc: Winston, Sandra; Huxley, David; Caldwell, Robert; Cornelia, Richard; Layton, Michael; Prescott, Peter; Cohen, Marshall; Schneider, Bonnie; Shroobshy, Alan; Rivers, Joseph; Bagley, Susan
Subject: Information on Supporting the Operations Center During the Events in Japan
Date: Friday, March 18, 2011 4:25:49 PM

Good afternoon,

I understand some of our branch members are interested in working in the Ops Center during the current activation. Earlier today, I spoke with Tony McMurtray, Executive Support Team Coordinator, and he related the following:

- 1) Interested personnel should obtain their branch chief's approval before volunteering to work in the Ops Center.
- 2) Volunteers should provide the following information via e-mail to Tony (Anthony.McMurtray@nrc.gov) and the HQ Ops Officers (HOO.hoc@nrc.gov):
 - a. First and last name
 - b. Current position or title
 - c. Office phone number
 - d. Office location
 - e. General shift(s) that you're willing to work (i.e., 7:00am – 3:00pm, 3:00 – 11:00pm, or 11:00pm – 7:00am)
 - f. Area of expertise (e.g., BWR, dose assessment, fuels, nuclear, severe accident, systems analysis, T/H, etc.)
 - g. Cell phone number, or other number where you can be reached outside your office
- 3) Anyone who has experience related to health physics or dose assessment is critically needed and can start work as soon as tomorrow's shifts (on the Protective Measures Team).

If you have any questions, please let me know.

Respectfully,

Lou

Louis J. Cubellis, Jr
Integrated Security Coordination Team Leader
U.S. Nuclear Regulatory Commission
Office of Nuclear Security and Incident Response
Division of Security Policy
Integrated Security Coordination and Policy Branch
11545 Rockville Pike
Rockville, MD 20852
Phone: 730.1.1.5.7111
Cell: (b)(6)
Mail Stop: 1-4F23M

BBS/51

E-mail: Louis.Cubellis@nrc.gov

From: Uises, Anthony
To: Tapp, James
Subject: Test
Date: Friday, March 18, 2011 8:45:14 PM

Sent from NRC BlackBerry
Anthony Uises

(b)(6)

BBB/52

Coyne, Kevin

From: Coyne, Kevin
Sent: Saturday, March 19, 2011 7:49 AM
To: Salley, MarkHenry
Subject: Re: Support and Logistics for the Japan Commission Meeting

Follow Up Flag: Follow-up
Flag Status: Flagged

Mark:-

No problem:-

+ Home (b)(6)
+ Cell (b)(6)
+ Blackberry (b)(6)

Don't usually have the blackberry ringer turned on, so home/cell would be the best. Should be around around all weekend

Many thanks-

Sent from an NRC Blackberry
Kevin Coyne

(b)(6)

From: Salley, MarkHenry
To: Coyne, Kevin
Sent: Fri Mar 18 22:04:16 2011
Subject: Fw: Support and Logistics for the Japan Commission Meeting

Kevin

I need someone to bang some ideas off. Can I call you tomorrow?

MHS

Sent from an NRC Blackberry
Mark Henry Salley

(b)(6)

From: Grobe, Jack
To: Sheron, Brian; Uhle, Jennifer; Wiggins, Jim; Evans, Michele; Miller, Charles; Haney, Catherine; Dorman, Dan; Moore, Scott; Johnson, Michael; Holahan, Gary; Leeds, Eric; Grobe, Jack; Boger, Bruce; Brenner, Eliot; Hayden, Elizabeth; Schmidt, Rebecca; Doane, Margaret; Mamish, Nader; Dyer, Jim; Brown, Milton; Hackett, Edwin; Piccone, Josephine; Wilson, George; Harrison, Donnie; Kammerer, Annie; Collins, Timothy; Milligan, Patricia; Salley, MarkHenry; Bowman, Eric
Cc: Borchardt, Bill; Weber, Michael; Virgilio, Martin; Ash, Darren; Burns, Stephen; Vietti-Cook, Annette; Andersen, James; Gitter, Joseph; Howe, Allen; Nelson, Robert; McGinty, Tim; Blount, Tom; Holian, Brian; Gallagher, Johanna; Brown, Milton; Cheok, Michael; Lee, Samson; Hiland, Patrick; Skeen, David; Ruland, William; Sheron, Brian; Lubinski, John
Sent: Fri Mar 18 18:06:05 2011
Subject: Support and Logistics for the Japan Commission Meeting

2003/53

Ladies and Gents,

We want to ask your support for several aspects of the Commission meeting on Monday morning regarding the situation in Japan.

First, the only staff at the Commission table will be Bill Borchardt.

In the well, we anticipate having the two available DEDOs (I understand that Mike Weber will be on shift) and one representative from the front office of each of the following offices (either the office director or deputy)

NRR, NRO, NSIR, RES, NMSS, FSME, OPA, OCA, OIP, CFO, ACRS

Annette Vietti-Cook has indicated that she will reserve the "quadrant" of seats nearest the microphone (on the left side of the room as the Commissioners would see it) for NRC staff. As I understand it, the right side will be for reporters and the central area will be open for general public.

In the area for NRC staff, there will be 39 seats.

From a staff perspective, we would like the highest priority available for the following individuals whom Bill will call upon to answer (on camera) any more detailed questions on the indicated subjects. Bill will have the list and ask for this person to respond to any question where he wants more detailed support. Some of these folks will likely already be in the well. The microphone has been moved to allow television camera access to any individual answering questions.

Protection Against Natural Disasters – Gary Holahan
Station Blackout – George Wilson
Severe Accident and Spent Fuel Pool Accident Progression – Jennifer Uhle
Radiological Consequence Analysis – Cathy Haney
Hydrogen Fires and Explosions – Mark Henry Salley
Public Stakeholder Outreach – Eliot Brenner
State Outreach – Josie Piccone
International Interactions – Margie Doane
10CFR50.54(hh)(2)/B.5.b – Eric Bowman
Seismic Issues, Tsunami Issues, GI-199 – Annie Kammerer
Mark I containment issues – Tim Collins
Emergency Preparedness – Trish Milligan
Emergency Operating procedures/SAMGs – Donnie Harrison

We understand that these people are available for the meeting. If not, please coordinate with Allen Howe to provide an equivalently capable individual.

That leaves 26 seats in the staff section for TAs and other Division Directors and above who should attend the meeting.

SECY is arranging for an e-mail to be sent out to the staff to indicate where televisions are available for other interested staff to observe the Commission meeting.

Thanks for your support.

Jack Grobe, Deputy Director
for Engineering and Corporate Support
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission

Siu, Nathan

From: Siu, Nathan
Sent: Saturday, March 19, 2011 2:06 PM
To: 'burchill@ne.tamu.edu'
Subject: Re: Fukushima Questions from Burchill

Hi Bill,

Sorry, I haven't been working Fukushima and don't have any special insights. In general, you can understand that NRC has told the staff to refer all questions to a central number: 301-415-8200. I'd imagine this isn't very helpful so again my apologies.

Wasgood seeing you too. Best regards, Nathan

Sent from NRC BlackBerry

Nathan Siu

(b)(6)

From: William E. Burchill <burchill@ne.tamu.edu>
To: Siu, Nathan
Sent: Sat Mar 19 13:55:15 2011
Subject: Fukushima Questions from Burchill

Nathan,

Can you give me any insight on the following questions or refer me to a source of answers?

1. How badly were the unit 3 and 4 SFP structures damaged by the earthquake?
2. Was the SFP water drained due to the earthquake? If yes, over what period of time?
3. Are the SFPs structurally sound enough to be refilled with water, a slurry, or sand?
4. What are the SFP loadings (# F/As, weight, heat load, radioactivity)?
5. How much has the cladding in the SFPs been oxidized (perhaps as inferred from the hydrogen released)?
6. What is the degree of fuel melting in the SFPs?
7. Is the fuel in the SFPs in a coolable geometry?
8. What effect has the spraying with water cannons had (fuel cooling, fuel degradation, water accumulation)?
9. What are the options to refill the SFPs with water, i.e., plant systems, external systems, water supplies, heat sink?
10. Will refilling the SFPs with water cause the fuel within to "slump" as occurred at TMI?
11. Will refilling the SFPs with water produce massive amounts of hydrogen? If yes, is it likely to explode before it is vented from the building?
12. Will refilling the SFPs with water produce a potential nuclear criticality?
13. Is filling the SFPs with a slurry or sand being aggressively evaluated?

How engaged is NRC in helping the TEPCO, NISA, META address these questions?

It was great to see you at PSA 11. Thanks for your time.

Best regards,

William E. Burchill, Ph.D.
Past President
American Nuclear Society
Retired Department Head
Nuclear Engineering
Texas A&M University
129 Zachry Engineering Center
College Station, TX 77843-3133
Phone: (979) 845-1670

BBB/54

FAX: (979) 845-6443
E-mail: burchill@tamu.edu

From: Coe, Doug
To: Beasley, Benjamin
Cc: Coyne, Kevin; Correa, Richard
Subject: FW: NYS Delegation Meeting Request
Date: Saturday, March 19, 2011 9:51:55 PM

Ben - could you see about getting a copy of the MSNBC article on Monday?
thanks
Doug

From: Dean, Bill
Sent: Saturday, March 19, 2011 5:05 PM
To: Leeds, Eric; Wittick, Brian; Hiland, Patrick; McGinty, Tim; Meighan, Sean; Nguyen, Quynh; Boger, Bruce; Coe, Doug
Cc: Uhle, Jennifer; Powell, Amy; Lew, David
Subject: Re: NYS Delegation Meeting Request

Eric,
Their interests are associated with the earthquake vulnerabilities purportedly revealed in GI 199 and the subject of the MSNBC article. We are obviously quite interested, but have little to contribute to the dialog in terms of allaying their concerns. We have enormous trust in our HQ partners to explain the basis for why IP is safe to be operating in light of this information.

Bill Dean
Regional Administrator
Region 1, USNRC
Sent from NRC BlackBerry

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

From: Leeds, Eric
To: Wittick, Brian; Hiland, Patrick; McGinty, Tim; Meighan, Sean; Nguyen, Quynh; Boger, Bruce; Coe, Doug
Cc: Uhle, Jennifer; Dean, Bill; Powell, Amy; Lew, David
Sent: Sat Mar 19 16:37:15 2011
Subject: RE: NYS Delegation Meeting Request

Brian - I appreciate your stepping into the void, but I still recommend RI at least stay involved if they don't take the lead. Stay with existing processes as much as possible. RI- what say you?

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

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

From: Wittick, Brian
Sent: Saturday, March 19, 2011 12:01 PM
To: Leeds, Eric; Hiland, Patrick; McGinty, Tim; Meighan, Sean; Nguyen, Quynh; Boger, Bruce; Coe, Doug
Cc: Uhle, Jennifer; Dean, Bill; Powell, Amy
Subject: Re: NYS Delegation Meeting Request

Eric

I believe the report of interest to the NYS delegation is an NRR and RES report, which is why the Chairman's office asked for NRR senior management to meet with them in his place. RES has committed to support. OCA and R1 are not participants. I am working to facilitate the meeting.

BBB/55

VR

Sent from NRC BlackBerry

Brian Wittick

(b)(6)

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

From: Leeds, Eric

To: Wittick, Brian; Hiland, Patrick; McGinty, Tim; Meighan, Sean; Nguyen, Quynh; Boger, Bruce; Coe, Doug

Cc: Uhle, Jennifer; Dean, Bill; Powell, Amy

Sent: Sat Mar 19 11:47:59 2011

Subject: Re: NYS Delegation Meeting Request

Brian - I have no idea. I thought oca or RI were coordinating this meeting

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

From: Wittick, Brian

To: Leeds, Eric; Hiland, Patrick; McGinty, Tim; Meighan, Sean; Nguyen, Quynh; Boger, Bruce; Coe, Doug

Cc: Uhle, Jennifer

Sent: Sat Mar 19 08:30:46 2011

Subject: Fw: NYS Delegation Meeting Request

Please let me know the time and location (recommend NRR's O13D20 conference room) soonest for confirmation with the NYS delegation.

Thanks

Sent from NRC BlackBerry

Brian Wittick

(b)(6)

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

From: Sheron, Brian

To: Wittick, Brian; Dean, Bill

Cc: Uhle, Jennifer

Sent: Sat Mar 19 08:04:18 2011

Subject: FW: NYS Delegation Meeting Request

FYI. We will support. Please work with Doug.

From: Coe, Doug

Sent: Friday, March 18, 2011 10:42 PM

To: Sheron, Brian; Case, Michael

Cc: Uhle, Jennifer; Coyne, Kevin; Beasley, Benjamin; Stutzke, Martin; McGinty, Tim; Hiland, Patrick;

Correia, Richard

Subject: RE: NYS Delegation Meeting Request

Brian,

We will work with NRR (Tim McGinty and Pat Hiland) to support this meeting. Likely we'll provide support for technical questions (Marty Stutzke and Jon Ake) and NRR to handle the process description (generic communication process).

Doug

From: Sheron, Brian

Sent: Friday, March 18, 2011 10:26 PM
To: Coe, Doug; Case, Michael
Cc: Uhle, Jennifer
Subject: FW: NYS Delegation Meeting Request

See below. I am not a GI-199 expert. Who do we have that is fluent in GI-199 that can support this meeting?

From: Wittick, Brian
Sent: Friday, March 18, 2011 10:13 PM
To: Dean, Bill; Leeds, Eric; Sheron, Brian
Cc: Muesle, Mary; Lew, David; Grobe, Jack; Boger, Bruce; Uhle, Jennifer; Andersen, James; Virgilio, Martin; Meighan, Sean; Nguyen, Quynh; Weber, Michael; Bowman, Gregory; Miller, Charles
Subject: NYS Delegation Meeting Request

Eric/Brian/Bill,

As noted below, the NYS Lt. Governor, Robert Duffy, NYS Director of Operations, Howard Glaser and NYS Deputy Secretary for Energy, Tom Congdon, will be coming to DC on Tuesday for discussions with NRC senior management. Other attendees at the meeting will include two support staffers and Hilary Jochmans, Director of the NYS Washington Office of the Governor. The original request from NY was to meet with the Chairman, but he is unavailable and asked for senior office level support.

The topic to be discussed is the September 2010 NRC report (Information Notice 2010-18: Generic Issue 199, "Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern U.S. on Existing Plants.") including the status of the follow up review. Link to the report is below.

Given the multiple office involvement in the report NRR and RES participation is recommended, Region 1 participation welcome. The Lt Governor will travel down from NY Tuesday morning and expects to be available late morning or afternoon. Please let me know your availability for the meeting.

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

http://adamswebsearch2.nrc.gov/idmws/DocContent.dll?library=PU_ADAMS^pntad01&LogonID=76b41771c7675f39f80edfad53e3cf59&id=102500110

From: Dean, Bill
Sent: Friday, March 18, 2011 7:33 PM
To: Wittick, Brian; Leeds, Eric; Andersen, James
Cc: Muesle, Mary; Lew, David; Grobe, Jack; Boger, Bruce; Sheron, Brian; Uhle, Jennifer
Subject: Re: Meeting Request Follow Up

I believe RES assistance may be appropriate for this given the GI-199 subject matter.

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

From: Thomas Hipschman
Sent: Friday, March 18, 2011 3:04 PM
To: Brian Wittick
Subject: FW: Meeting Request Follow Up

FYI – the Chairman has agreed that a senior manager from NRR should meet with them.

Thomas Hipschman
Policy Advisor for Reactors
Office of Chairman Gregory B. Jaczko
301-415-1832

From: Pace, Patti
Sent: Friday, March 18, 2011 1:48 PM
To: Hipschman, Thomas
Cc: Bradford, Anna; Batkin, Joshua; Coggins, Angela
Subject: FW: Meeting Request Follow Up

Hi Tom,

Anna asked me to forward this to you. Can you please work with NRR to make this happen? The folks from NY are eager to confirm something ASAP.

Thanks,

Patti Pace
Assistant to Chairman Gregory B. Jaczko
U.S. Nuclear Regulatory Commission
301-415-1820 (office)
301-415-3504 (fax)

From: Hilary Jochmans [<mailto:Hilary.Jochmans@nrc.gov>]
Sent: Friday, March 18, 2011 1:42 PM
To: Pace, Patti
Cc: Thomas Congdon; Bradford, Anna; Warren, Roberta
Subject: RE: Meeting Request Follow Up

Thank you, Patti. I greatly appreciate your assistance. I certainly understand the constraints on the Chairman's time. We would appreciate a meeting with the Senior Staff you suggest on Tuesday in person. Please let me know what other information you need from me, and then who the staffer will be and when where.

Thanks again,
Hilary

From: Pace, Patti [<mailto:Patti.Pace@nrc.gov>]
Sent: Friday, March 18, 2011 1:37 PM
To: Hilary Jochmans
Cc: Thomas Congdon; Bradford, Anna; Warren, Roberta
Subject: Meeting Request Follow Up

Dear Hilary,

Chairman Jaczko will not be available for a face to face meeting next week due to his role in the ongoing NRC response to the situation in Japan. He values the very good relationship between the NRC and State of New York. He has offered to make himself available for a phone call next week if that would be acceptable to Lt. Governor Duffy. If the Lt. Governor would prefer to meet with a senior NRC staff person we could work on that as an alternative.

Please let me know how you would like to proceed.

Many thanks,

Patti Pace

Assistant to Chairman Gregory B. Jaczko
U.S. Nuclear Regulatory Commission
301-415-1820 (office)
301-415-3504 (fax)

From: Hilary Jochmans (<mailto:Hilary.Jochmans@exec.ny.gov>)
Sent: Thursday, March 17, 2011 3:22 PM
To: Pace, Patti
Cc: Thomas Congdon
Subject: Follow up to Conversation

Hi Patti – It was great to chat with you. Glad to hear you are doing well. Thanks so much for your offer to help with this meeting request.

On Tuesday, the NYS Lt. Governor, Robert Duffy, NYS Director of Operations, Howard Glaser and NYS Deputy Secretary for Energy, Tom Congdon, would like to come to Washington to meet with the Chairman. Specifically, they would like to be briefed on the September 2010 NRC report including the status of the follow up review. If the Chairman is not available, they would like to meet with an appropriate Commissioner or senior staffer.

I greatly appreciate your assistance with this request. Please let me know if you need any additional information.

Thanks,
Hilary

Hilary F. Jochmans, Director
New York State Washington Office of the Governor
202-434-7100

From: Coe, Doug
To: Reardon, Benjamin; Coyle, Kevin; Stedon, Martin
Cc: Correa, Richard
Subject: FW: NYS delegation visit
Date: Monday, March 21, 2011 7:02:39 AM

From: Sheron, Brian
Sent: Sunday, March 20, 2011 5:46 PM
To: Flory, Shirley
Cc: Coe, Doug
Subject: FW: NYS delegation visit

Meeting time Tuesday is 10:30 am to 12 Noon.

From: Wittick, Brian
Sent: Sunday, March 20, 2011 5:03 PM
To: Wittick, Brian; Leeds, Eric; Sheron, Brian; Turtill, Richard; LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc; Sargent, Kimberly
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Wiggins, Jim; Coe, Doug; Grobe, Jack; McGinty, Tim; Hiland, Patrick; McDermott, Brian; Gott, William; Dean, Bill; Hayden, Elizabeth; Brenner, Eliot; Wittick, Susan
Subject: RE: NYS delegation visit

The NYS LtGov's office has request the Tuesday meeting time to be 10:30 - 12:00. Expect the HOC tour to be at 12:00.

From: Wittick, Brian
Sent: Sunday, March 20, 2011 4:34 PM
To: Leeds, Eric; Sheron, Brian; Turtill, Richard; LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc; Sargent, Kimberly
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Wiggins, Jim; Coe, Doug; Grobe, Jack; McGinty, Tim; Hiland, Patrick; McDermott, Brian; Gott, William; Dean, Bill; Hayden, Elizabeth; Brenner, Eliot; Wittick, Susan
Subject: Re: NYS delegation visit

Eric/Brian

In my recent discussion with Josh, he said he had told the LtGov's office today that both of you would be personally meeting with the NYS delegation for a 90 minute meeting, others TBD (in addition to presenters, desire FSME and OPA as this meeting likely results from the recent news piece on the seismicity issue and IP). We are still trying to lock the time. I expect between 1030 - 1400.

Eric has asked Jack Grobe to coordinate the presentation. I am working logistics and coordination. NSIR has agreed to support a HOC tour. Protocol is addressing visitor access.

Thanks to all for support.

Sent from NRC BlackBerry
Brian Wittick

(b)(6)

BBB/56

From: Leeds, Eric
To: Sheron, Brian; Turtl, Richard; LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Wiggins, Jim; Coe, Doug; Grobe, Jack; Wittick, Brian
Sent: Sun Mar 20 16:01:59 2011
Subject: RE: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN

Yes - NRR is working with the EDOs office to set up the meeting and we appreciate RES's support. Brian Wittick is the POC.

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

From: Sheron, Brian
Sent: Sunday, March 20, 2011 3:06 PM
To: Turtl, Richard; LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Leeds, Eric; Wiggins, Jim; Coe, Doug
Subject: RE: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN

RES is working with NRR and will support the meeting. We are not taking the lead to set it up, etc. I am assuming NRR is doing that.

From: Turtl, Richard
Sent: Sunday, March 20, 2011 12:40 PM
To: LIA08 Hoc; Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Ryan, Michelle; Leeds, Eric; Wiggins, Jim; Sheron, Brian
Subject: RE: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN
Importance: High

Jeff (not certain which Jeff):

I'm the Branch Chief of FSME's Intergovernmental Liaison Branch, and some of us, including Rosetta and I, want to be assured that NRR and/or RES are taking the lead in (of course) preparing for the meeting with NY, but also **coordinating logistics for such a meeting**. I was planning to call Eric this afternoon to assure NRR was in fact taking the lead to coordinate meeting with NY, and keeping Chairman's office and RI informed of the meeting.

Shall I call Eric? The meeting is fast approaching... Tuesday. Many will be engaged in the Commission meeting on Mon morning. **I believe we (NRR Administrative support?) should be in touch with NY (their contact in DC - Hilary F. Jochmans, Director New York State Washington Office of the Governor 202-434-7100) first thing Monday morning to plan out meeting logistics for this meeting, including room reservation, etc.**

Can we be assured that NRR (and/or RES) is doing this? At this time, there have been just WAY too many e-mails discussing this meeting. Unless I hear from you shortly, I'll try

to contact Eric directly by phone. Please let me know.

Rich Turtill

(b)(6)

From: LIA08 Hoc
Sent: Sunday, March 20, 2011 12:00 PM
To: Virgilio, Rosetta; LIA06 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Turtill, Richard; Ryan, Michelle
Subject: RE: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN

Hi Rosetta. Just talked to Jim Wiggins. He said to plan on Eric Leeds and Brian Sheron being in the USA next week. Beyond that, not sure what their schedules are now, or what they will look like after Mondays Commission meeting. Jeff

From: Virgilio, Rosetta
Sent: Sunday, March 20, 2011 9:59 AM
To: LIA06 Hoc; LIA08 Hoc; LIA04 Hoc; OST05 Hoc
Cc: Piccone, Josephine; Jackson, Deborah; Turtill, Richard; Ryan, Michelle
Subject: Fw: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN

Below is my latest communication to NGA. Have not heard back from Brian Sheron as to his availability. Johnson, Leeds, and Haney are not available. Leeds said he might be available for April 4 - if he doesn't go to Japan.
What does ET recommend?

Sent from an NRC Blackberry

Rosetta O. Virgilio

(b)(6)

From: Virgilio, Rosetta
To: gdierkers@nga.org <gdierkers@nga.org>
Sent: Fri Mar 18 15:13:22 2011
Subject: NRC PUBLIC MEETING 9:00 AM MONDAY, MARCH 21, 2011: NRC's RESPONSE TO RECENT NUCLEAR EVENTS IN JAPAN

Hello, Greg - Just wanted to touch base and let you know that things are not looking good for NRC participation in next week's NGA webinar; however, I am pursuing the April 4 date, which may be more doable.

As I indicated yesterday, the NRC staff will brief the Commission Monday, March 21, 2011, at 9:00 a.m. regarding NRC's response to recent nuclear events in Japan. The meeting is public and will be held at NRC Headquarters at 11555 Rockville Pike, Commissioners' Conference Room, in Rockville, Maryland.

The meeting can also be viewed via Webcast at: <http://www.nrc.gov/public-involve/public->

[meetings/webcast-live.html](#)

Please feel free to share this information with your contacts.

Rosetta O. Virgilio
Senior Liaison Project Manager
Intergovernmental Liaison Branch
U.S. Nuclear Regulatory Commission
11545 Rockville Pike - T-8F42
Rockville, MD 20852-2738
301-415-2367
Rosetta.Virgilio@nrc.gov

From: Virgilio, Rosetta
To: 'gdierkers@NGA.ORG' <gdierkers@NGA.ORG>
Sent: Thu Mar 17 17:03:28 2011
Subject: Re: NGA Center NRC expert speaker requests

Thank you, Greg; I will followup and get back to you.

Sent from an NRC Blackberry

Rosetta O. Virgilio

(b)(6)

From: Dierkers, Gregory <gdierkers@NGA.ORG>
To: Virgilio, Rosetta
Cc: Gander, Sue <sgander@NGA.ORG>; MacLellan, Thomas <TMaclellan@NGA.ORG>; Ferro, Carmen <CFerro@NGA.ORG>
Sent: Thu Mar 17 16:36:04 2011
Subject: NGA Center NRC expert speaker requests

Hi Rosetta,

Thanks for your time today. We appreciate you identifying someone from the NRC to support the NGA Center's outreach to states during this busy time.

As we discussed we would like to invite the NRC to join us for two upcoming events -- a webinar next week and a conference in early April -- to brief governors' advisors on the Japanese situation and the implications for US plants. The events are:

1) A webinar with governors' security and energy advisors. NGA Center staff is planning to host a conference call next week (Tuesday 3/21 or Wednesday 3/22) to provide senior state officials with an update on the Japan situation and to answer questions as to the operations of US plants, including regulations, plant security/safety, and the emergency preparedness efforts at the US nuclear fleet. We would ask that an NRC expert join the webinar remotely; the webinar would last

for 1 hour.

2) An In-person speaker at a governors' energy advisors meeting. NGA Center's *Governors' Energy Advisors Policy Institute* on April 4th in Arlington, Virginia. The focus of the April 4th Institute is to provide a 'Technology 101' briefing for governors senior energy advisors. We would invite the NRC to attend in-person on April 4th from 1:45pm to 4:15pm. We would ask for a 10-15 minute presentation on the situation in Japan, the state of nuclear technology and regulations in the US, and the implications for states from the Japanese crisis. Attached is a draft agenda.

Thanks for considering both of these requests.

Sincerely,

Greg Dierkers
Program Director – Energy and Transportation
NGA Center for Best Practices
Environment, Energy and Transportation Division
202-624-7789
gdierkers@nga.org

From: E&E Publishing, LLC <ealerts@eenews.net>
Sent: Monday, March 21, 2011 8:34 AM
To: Virgilio, Martin
Subject: Codes Enclosed -- March 21 -- ClimateWire is ready



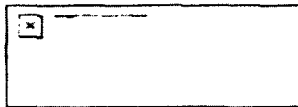
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NUCLEAR CRISIS: JAPAN & THE FUTURE OF ENERGY POLICY



The devastating earthquake and tsunami in Japan has spawned a major nuclear disaster. E&E examines the implications for energy the environment, security and public health. [Click here](#) to go to the report.

CLIMATEWIRE -- MON., MARCH 21, 2011 -- [Read the full edition](#)

1. REGULATION: U.S. nuclear plants are safer than Japan's, but operational quality needs work

Are U.S. nuclear reactors safe? The short answer is "yes," Nuclear Regulatory Commission Chairman Gregory Jaczko tried to convey to anxious, impatient senators at a congressional hearing last week. The nation's chief nuclear regulator could give no other answer -- an unsafe reactor would have to be shut down and fixed, or closed. Taken as a whole, the 104 U.S. commercial nuclear reactors have significantly improved their operating reliability and are more closely watched by on-site NRC inspectors and regional staff than in any other time in the industry's half-century history, according to NRC. From the 2005 to 2009 fiscal years, NRC recorded no "abnormal occurrences" -- accidents or deficiencies that caused a major reduction in the protection of public health and safety.

TODAY'S STORIES

2. ADAPTATION: Japan's plight, a teaching moment for both rich and poor

888/57

nations

3. **NUCLEAR CRISIS:** Two plants at Fukushima are reconnected to power grid
4. **ENERGY:** Nuclear revival plans continue in some states
5. **PUBLIC OPINION:** Experience in floods makes more climate change believers – study
6. **NATURAL GAS:** Demand for LNG expected to surge in Japan, China
7. **NATIONS:** India poised to become fastest-growing renewable energy market
8. **SOLAR:** Nuclear fears give temporary bump to photovoltaic shares, analysts say
9. **OFFSHORE WIND:** Projects start at snail's pace in Germany
10. **RENEWABLE ENERGY:** E.U. climate chief says wind power will be cheaper than nuclear
11. **AGRICULTURE:** Sharing of plant genetic material is essential for creating climate-ready crops

E&ETV'S ONPOINT

12. **EFFICIENCY:** Alliance to Save Energy's Callahan weighs in on light bulb debate
-

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Wagner, Katie

From: Wagner, Katie
Sent: Monday, March 21, 2011 10:10 AM
To: Schaperow, Jason
Subject: FW: Sandia reports requested for Fuku recovery
Attachments: DOC001.PDF

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

From: Tinkler, Charles
Sent: Thursday, March 17, 2011 4:41 PM
To: Wagner, Katie
Subject: FW: Sandia reports requested for Fuku recovery

Please talk to Kathy Gibson about how to handle this, we also need to find out how this can sent electronically

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

From: Marquino, Wayne (GE Power & Water) [<mailto:wayne.marquino@ge.com>]
Sent: Thursday, March 17, 2011 4:35 PM
To: Tinkler, Charles
Cc: Kingston, Rick E. (GE Power & Water); Head, Jerald G (GE Power & Water); Quintana, Louis M (GE Power & Water); Gauntt, Randall O.
Subject: Sandia reports requested for Fuku recovery

Charles -

We request the reports in the attached pdf file to assist in recovery efforts at the Fukushima 1 units. We've screened the list of reports provided by Randy Gauntt, to those which seem relevant to our present efforts.

If you can send them to me encrypted via email, I will follow GEH Safe Guards Information while handling them. Please advise what encryption SW I need if it's special so I can install it on our SGI computer.

If via FedEx, please send to

Jerald Head
3901 Castle Hayne Road M/C A18
Wilmington, NC 28402

Thanks,

Wayne

Wayne Marquino P.E.
System Integration Engineering Manager, ESBWR GE Hitachi Nuclear Energy,
Voice- (910) 819-6444 (dial comm 819-6444) Cell (b)(6)
FAX- (910) 362-6444
Conferencing passcode (b)(6) toll free: 8005010843 International 01-913-904-9801, Sweden 0201400595,
Spain 900800388, Japan 00531160850, Mexico 0018005145992, DialComm 218-6909

email:wayne.marquino@ge.com
3901 Castle Hayne Road M/C A75

BBB/58

ATC2 4319

Wilmington, NC 28402

www.ge-energy.com/nuclear

http://www.ge-energy.com/prod_serv/products/nuclear_energy/en/passive_safety_system.htm

<http://adamswebsearch2.nrc.gov/idmws/ViewDocByAccession.asp?AccessionNumber=ML103440266>

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

From: Gauntt, Randall O [<mailto:rogaunt@sandia.gov>]

Sent: Wednesday, March 16, 2011 5:09 PM

To: Marquino, Wayne (GE Power & Water); Head, Jerald G (GE Power & Water)

Cc: Loewen, Eric (GE Power & Water); Ginsberg, Robert (GE Power & Water); Klapproth, James F (GE Power & Water); Quintana, Louis M (GE Power & Water)

Subject: RE: Can we call you about spent fuel?

Wayne

List of relevant reports.

Randy

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

From: Marquino, Wayne (GE Power & Water) [<mailto:wayne.marquino@ge.com>]

Sent: Wednesday, March 16, 2011 11:49 AM

To: Gauntt, Randall O; Head, Jerald G (GE Power & Water)

Cc: Loewen, Eric (GE Power & Water); Ginsberg, Robert (GE Power & Water); Klapproth, James F (GE Power & Water); Quintana, Louis M (GE Power & Water)

Subject: Re: Can we call you about spent fuel?

Jerry-

Jim asked me to request the reports via you when Randy sends the reports numbers.

Wayne

Wayne Marquino P.E.

System Integration Engineering Manager, ESBWR GE Hitachi Nuclear Energy

Voice- (910) 819-6444 (dial comm 292-6444) Cell (b)(6)

FAX- (910) 362-6444

Conferencing passcode (b)(6) toll free: 8005010843 International 01 647 723 6909, Spain access 900800388

email: wayne.marquino@ge.com

3901 Castle Hayne Road M/C A75

ATC2 4319

Wilmington, NC 28402

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

From: Marquino, Wayne (GE Power & Water)

To: Gauntt, Randall O <rogaunt@sandia.gov>

Cc: Loewen, Eric (GE Power & Water); Ginsberg, Robert (GE Power & Water); Klapproth, James F (GE Power & Water)

Sent: Wed Mar 16 12:09:07 2011

Subject: RE: Can we call you about spent fuel?

Randy -

GEH would like to obtain the Sandia reports you described on spent fuel response to loss of cooling which includes BWR fuel and different discharge times. Can you provide the report numbers?

I understand that these have a security classification (one of the lower ones) and therefore will have to request reports from the NRC, and the knowledgeable NRC contacts are:

Jennifer Uhle 301 251 7499

Hinkler 251 7496

Brain Sheron

Thanks for the information,

Wayne

Yarsky, Peter

From: Carlson, Donald
Sent: Monday, March 21, 2011 8:10 PM
To: RST01 Hoc; Yarsky, Peter; Ward, Leonard
Cc: RST07 Hoc; RST02 Hoc; Scott, Harold
Subject: RE: TEPCO meeting at the US Embassy Monday.
Attachments: BWR In-Vessel SA Mitigation Strategies (ORNL-1992).pdf, Emailing: NUREG-5869.pdf

Importance: High

All,

I just found my hardcopy of the 1990 PNL study for RES, NUREG/CR-5653, "Recriticality in a BWR Following a Core Damage Event." Harold Scott and I are still hunting for an electronic copy.

The abstract says:

"Based on a conservative bounding analysis, this report concludes that there is a potential for recriticality in BWRs if core reflood occurs after control blade melting has begun but prior to significant fuel rod melting. However, a recriticality event will most likely not generate a pressure pulse significant enough to fail the vessel. Instead, a quasi-steady power level would result and the containment pressure and temperature would increase until the containment failure pressure is reached, unless actions are taken to terminate the event.

Two strategies are identified that would aid in regaining control of the reactor and terminate the recriticality event before containment failure pressures are reached. The first strategy involves initiating boration injection at or before the time of core reflood. The second strategy involves initiating residual heat removal suppression pool cooling to remove the heat load generated by the recriticality event and thus extend the time available for boration."

Also, I had just found the attached 1992 follow-up paper by ORNL when Pete Yarsky sent me the corresponding ORNL report, NUREG/CR-5869. See Pete's excellent message attached.

Actually, Tony Ulises probably knows quite a lot about all this. But he is on the ground in Japan.

Don
Cell: (b)(6) *

---Original Message---

From: RST01 Hoc
Sent: Monday, March 21, 2011 7:06 PM
To: Yarsky, Peter; Ward, Leonard; Carlson, Donald
Cc: RST07 Hoc; RST02 Hoc
Subject: FW: TEPCO meeting at the US Embassy Monday.

Call into the HOO for the call:

- 1) 301-816-5100
- 2) Transfer to the Reactor Safety Team (RST) Bridge

---Original Message---

From: LIA02 Hoc
Sent: Monday, March 21, 2011 6:44 PM

BBB/59

To: RST01 Hoc; RST02 Hoc
Subject: FW: TEPCO meeting at the US Embassy Monday.

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

From: Nakanishi, Tony
Sent: Monday, March 21, 2011 9:34 AM
To: LIA02 Hoc; Liaison Japan
Cc: 'Damian.Peko@Nuclear.Energy.gov'
Subject: Fw: TEPCO meeting at the US Embassy Monday.

For the tepco mtg.

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

From: 佐藤 隆 <sato.takashi@tepco.co.jp>
To: Peko, Damian <Damian.Peko@Nuclear.Energy.gov>
Cc: 川野 晃 <kawano.akira@tepco.co.jp>; hoofc@state.gov <hoofc@state.gov>; Monninger, John; Nakanishi, Tony
Sent: Mon Mar 21 07:29:30 2011
Subject: Re: TEPCO meeting at the US Embassy Monday.

Dear Mr. Peko,

Thank you very much for your strong support to TEPCO.

Attached are the agenda and related material.
Please deliver those to the US side before the meeting of tomorrow starts.

Best regards,

Takashi Sato
TEPCO
(On behalf of Mr. Akira Kawano)

東京電力株式会社

本店 原子力・立地業務部

原子力企画グループマネージャー

佐藤 隆 (Takashi Sato)

〒100-8560 東京都千代田区千代田1-1-3

TEL : 03-6373-4721

FAX : 03-3596-8538

E-Mail : sato.takashi@tepco.co.jp

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

From: "川野 晃" <kawano.akira@tepco.co.jp>
To: "Peko, Damian" <Damian.Peko@Nuclear.Energy.gov>
Cc: <hoofc@state.gov>; <John.monninger@nrc.gov>; <tony.nakanishi@nrc.gov>; <sato.takashi@tepco.co.jp>
Sent: Monday, March 21, 2011 4:59 PM
Subject: Re: TEPCO meeting at the US Embassy Monday.

> Dear Mr.Damian Peko,
>
> Thank you for all of your arrangement for tomorrow meeting.
> I also appreciate for the Embassy of the U.S.A providing the
> convenience to use oversea telephone system.
>
> Our participants for the meeting are as follows:
>
> Toshihiro Bannai, NISA
> Norihisa Yuuki, NISA
> Syunichi Suzuki, TEPCO
> Junichi Hakii, TEPCO
> Takashi Satoh, TEPCO
> Akira Kawano, TEPCO
>
> Warmest regards.
>
> Akira Kawano
> TEPCO
>
>
> On Mon, 21 Mar 2011 03:25:36 -0400
> "Peko, Damian" <Damian.Peko@Nuclear.Energy.gov> wrote:
>
>> Dear Kawano-san
>>
>> I am sending you this email so you have the address to send the names
>> of the NISA and TEPCO people who will be at the meeting we scheduled
>> for 10:00 tomorrow. Please reply to this email with the names of the
>> participants for this meeting.
>>
>> Best Regards
>>
>> Damian Peko
>
> 東京電力（株）
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> 第二保安部
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> 電子メール：kawano.akira@tepcoco.jp
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> Akira Kawano
> Maintenance Director
> Fukushima Daiichi Nuclear Power Station Tokyo Electric Power Company
>
> Phone: +81-240-32-2486
> Fax: +81-240-32-3881
> E-mail: kawano.akira@tepcoco.jp
> URL: <http://www.tepcoco.jp/fukushima1-np/index-j.html>
>

Wagner, Katie

From: Wagner, Katie
Sent: Tuesday, March 22, 2011 12:41 PM
To: Ghosh, Tina
Subject: RE: Station blackout questions

Ok, thanks Tina! Will let you know if someone else jumps on it.

From: Ghosh, Tina
Sent: Tuesday, March 22, 2011 12:40 PM
To: Wagner, Katie
Subject: FW: Station blackout questions
Importance: High

Hi Katie,

I asked Jason or Charlie if they should be responsible and I'll let you know when I hear from them. But in the meantime, please let me know if another branch claims this one.

Thanks!
Tina

From: Santiago, Patricia
Sent: Tuesday, March 22, 2011 12:26 PM
To: Ghosh, Tina
Subject: Fw: Station blackout questions
Importance: High

Can u ask jason or charlie

Sent from an NRC BlackBerry
Patricia Santiago
(b)(6)

From: Wagner, Katie
To: Santiago, Patricia; Hoxie, Chris; Elkins, Scott; Bush-Goddard, Stephanie; Zaki, Tarek
Cc: Lee, Richard
Sent: Tue Mar 22 12:12:57 2011
Subject: Station blackout questions

All,

Do any of you know who the lead should be to answer these questions about station blackout (the questions are from a reporter see the highlighted section at the bottom of this email)? It may be another RES division or one in NRR?

Thank you.

Katie Wagner
DSA POC for Japan-Related Requests

BFB/60

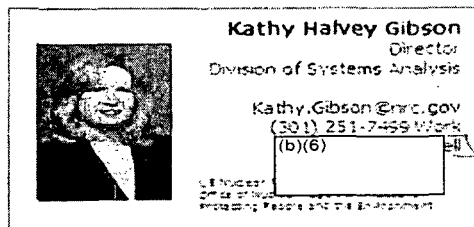
From: Gibson, Kathy
Sent: Tuesday, March 22, 2011 11:59 AM
To: Wagner, Katie
Cc: Lee, Richard
Subject: FW: Station blackout questions
Importance: High

See if you can find this report in ADAMS and who was the cognizant office, branch, and staff.

If that doesn't work or in parallel, send an email request to our BCs and see if any of them know who the lead should be to answer these questions.

It may be another RES division or NRR, I am not sure.

If you need help processing this, see me or Richard Lee.



From: Burnell, Scott
Sent: Tuesday, March 22, 2011 9:49 AM
To: Gibson, Kathy; Scott, Michael
Cc: Elkins, Scott
Subject: FW: Station blackout questions
Importance: High

Kathy, Mike;

I'm thinking NUREG-1776 (Regulatory Effectiveness of the Station Blackout Rule) was done by the predecessor to your division, probably under Scott's branch. I need help answering the reporter's four questions below. Thanks very much.

Scott

From: Mike Soraghan [<mailto:msoraghan@eenews.net>]
Sent: Thursday, March 17, 2011 6:06 PM
To: Burnell, Scott
Subject: Station blackout questions

Mr. Burnell,

Thank you for taking my call a moment ago. I am looking at doing a story on station black out, with a little on seismic, that looks at all u.s. plants.

My simplest question is whether there is a list of the design basis each of the 104 reactors must meet in terms of what magnitude earthquake they must be able to withstand. I've been told that's not likely, so I'm pulling the information from news reports.

I have the 2000 report (attached) "Regulatory Effectiveness of the Station Blackout Rule." I've been looking at this, particularly the plant-by-plant chart, and I'm seeking some guidance.

First, has there been any update to these numbers?

"Coping time in hours" — is that the amount of battery power? And is it the amount the plant has, or is required to have?

"Loss of Power events" — if a combined plant with two reactors lists two events, did each shut down for a total of four?

Also, is there updated figures for the "loss of power events?"

Thank you,

Mike Soraghan

Reporter

msoraghan@eenews.net

202-446-0423 (desk)

(b)(6)

cell) *

Google Voice)

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ClimateWire, E&E Daily, Greenwire, E&ENews PM, E&ETV, Land Letter

Wagner, Katie

From: Wagner, Katie
Sent: Tuesday, March 22, 2011 1:06 PM
To: Ghosh, Tina
Subject: RE: Station blackout questions

Tina,

Richard sent an inquiry to Kevin Coyne about this . . . that is all I've seen so far.

Katie

From: Ghosh, Tina
Sent: Tuesday, March 22, 2011 12:40 PM
To: Wagner, Katie
Subject: FW: Station blackout questions
Importance: High

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Thank you,

BBB/61

Katie Wagner
DSA POC for Japan-Related Requests

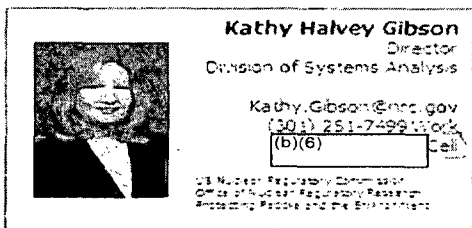
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Reporter

msoraghan@eenews.net

202-446-0423 (desk)

(b)(6)

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ClimateWire, E&E Daily, Greenwire, E&ENews PM, E&ETV, Land Letter

From: E&E Publishing, LLC <ealens@eenews.net>
Sent: Tuesday, March 22, 2011 8:24 AM
To: Virgilio, Martin
Subject: Codes Enclosed -- March 22 -- ClimateWire is ready



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User Name (b)(6)
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NUCLEAR CRISIS: JAPAN & THE FUTURE OF ENERGY POLICY



The devastating earthquake and tsunami in Japan has spawned a major nuclear disaster. E&E examines the implications for energy the environment, security and public health. [Click here](#) to go to this report.

CLIMATEWIRE -- TUE., MARCH 22, 2011 -- [Read the full edition](#)

1. POLICY: British Columbia survives 3 years and \$848 million worth of carbon taxes

As it nears its third anniversary, British Columbia's carbon tax is loved by some, hated by others, and yet forgotten by many Canadians. As North America's only large-scale carbon tax approaches its birthday, many economists say the tax is too small at this point for a full economic assessment. Yet there are early signs that the tax is changing behavior. Heavy greenhouse gas emitters such as cement manufacturers are warning that they are on the verge of "disastrous" layoffs and shutdowns, while businesses with a small carbon footprint seem happy with the tax.

TODAY'S STORIES

- 2. CALIFORNIA:** Judge blocks state's global warming law, putting 2012 start date in doubt
- 3. POLITICS:** Bingaman and Murkowski open discussion on Obama's clean

BBB/62

energy standard

4. **NUCLEAR:** NRC staff finds no reason to shut down any U.S. reactors and no U.S. risk from Japanese radiation
5. **RENEWABLES:** Former opponent of Cape Wind hopes to launch 'eco-tours' to it
6. **TECHNOLOGY:** New structure allows lithium-ion batteries to get a quicker charge
7. **BIOFUELS:** Coalition launches sustainable label, puts aside land-use argument
8. **NATIONS:** Despite Japan's nuclear disaster, Vietnam confirms plans to build reactor
9. **FISHERIES:** Warmer Antarctic water prompts encroachment by predator crabs
10. **COAL:** Future Wyo. plant finds buyer for its CO2 emissions
11. **RENEWABLE ENERGY:** Germany may increase pace of grid projects

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From: Coe, Doug
To: Grobe, Jack; Hland, Patricia; McGinty, Tim
Cc: Beasley, Benjamin; Coe, Doug; Kinn, Sharon; Sean; Hile, Jennifer; Corle, Richard
Subject: FW: Request from MA for RI to Meet w/Governor
Date: Wednesday, March 23, 2011 9:38:07 AM

Jack/Pat/Tim,

Yesterday we told NY we would give "top" priority to Indian Point in our GI199 followup review (i.e. backfit analysis). I'm guessing other states will now be lining up to secure their place in our 'queue'. We would normally intend to complete all the followup analyses for all plants before making our results public, unless we found something that warranted more near-term action. This would include RES for our technical input and NRR for the completion of the backfit analyses for those plants that appear to warrant it, and would help to ensure the consistency and quality of all the results. We may be heading toward a situation in which we are forced into making each plant analysis public as we complete it - a potential administrative and process nightmare.

My only suggestion is that we promise only that we will

1. evaluate all responses to our Generic Letter in a risk-informed manner,
2. will provide a public schedule with milestones (similar to licensing schedules),
3. will notify public stakeholders if we encounter anything that requires near-term regulatory action, and
4. that we will make our results public upon completion of our reviews (there might possibly be an interim public report that identifies the technical/risk basis for proceeding with backfit analyses for those plants that warrant it).

Before we continue meeting with State/Congressional officials do we need to get aligned on this?

Doug

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 5:30 PM
To: Wittick, Brian
Cc: Ellmers, Glenn; Andersen, James; OST05 Hoc; Grobe, Jack; Leeds, Eric; Meighan, Sean; Nguyen, Quynh; Sheron, Brian; Coe, Doug
Subject: RE: Request from MA for RI to Meet w/Governor

Will do, Brian. Thank you. We offered next Wednesday and the Governor can support either the afternoon after 1:00 pm. Talk to you tomorrow.

From: Wittick, Brian
Sent: Tuesday, March 22, 2011 5:25 PM
To: McNamara, Nancy
Cc: Ellmers, Glenn; Andersen, James; OST05 Hoc; Grobe, Jack; Leeds, Eric; Meighan, Sean; Nguyen, Quynh; Sheron, Brian; Coe, Doug
Subject: FW: Request from MA for RI to Meet w/Governor

Hi Nancy.

BEB/63

We would be happy to assist RI with discussions similar to what we just did for NYS for Massachusetts. Let's talk tomorrow about plans.

Thanks,

Brian Wittick

Executive Technical Assistant for Reactors

Office of the Executive Director for Operations

U.S. Nuclear Regulation Division
301-415-2496 (w): [REDACTED] (b)(6) (c)

From: OST05 Hoc
To: Wittick, Brian; Andersen, James
Cc: McNamara, Nancy; Sanfilippo, Nathan
Sent: Tue Mar 22 16:56:04 2011
Subject: FW: Request from MA for RI to Meet w/Governor

Brian,

Please see request below from Region I requesting assistance with coordination of a meeting with the Governor of Massachusetts.

Nathan suggested that in light of the NY meeting today Region I coordinate this through you. Will you be able to assist Region I/ Nancy McNamara with this?

Thanks

Michelle

Michelle Ryan

State Liaison – Liaison Team

Incident Response Center

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 4:40 PM
To: LJA04 Hoc; OST05 Hoc
Subject: Request from MA for RI to Meet w/Governor
Importance: High

This afternoon, the Governor of Massachusetts has requested a meeting with him and his staff and the NRC to discuss the event in Japan, seismic study (GI-199) and spent fuel pools. The Governor stated that the level of participation could be at the Regional level with experts to support the information sharing session.

The RI Regional Administrator is available to support such a meeting with assistance from subject matter experts from our HQ staff.

Would you like us to coordinate this request through the EDO's office or through the Liaison Team?

- Nancy

From: McNamara, Nancy
To: Coe, Doug; Grobe, Jack; Hiland, Patrick; McGinty, Tim
Cc: Ellmers, Glenn; Andersen, James; Mcighan, Sean; Nguyen, Quynh; Sharon, Brian; Wittick, Brian; Dean, Bill; Correia, Richard
Subject: RE: Request from MA for RI to Meet w/Governor
Date: Wednesday, March 23, 2011 12:26:48 PM

Thanks, Doug. If I may, I would like to provide additional insight and background on this request. This request came via the MA SLO. The request for this meeting came about from a staff meeting in the Governor's office related to the Japanese Event. The SLO spoke very highly of the NRC and all the information and calls we've had with the States on the subject matter. The Governor appeared to be pleased with our efforts. In the spirit of our openness with the State, the SLO offered to the Governor that the NRC would be happy to provide any additional insight to the Governor if he would like. The Governor took him up on that offer. At this time, to the best of our knowledge, we do not believe there is any political motivation by the Governor behind this request and that it is being considered as a good-faith outreach initiative. The SLO will keep us informed should that perspective change. Also, the Governor appears to understand the NRC's protective action recommendation and at the moment there is no request for a further discussion on that topic. The meeting is scheduled for 1 hour. (Originally 30 minutes was scheduled but I suggested an hour and they agreed)

Regards,
Nancy

From: Coe, Doug
Sent: Wednesday, March 23, 2011 12:09 PM
To: Grobe, Jack; Hiland, Patrick; McGinty, Tim
Cc: Ellmers, Glenn; Andersen, James; Mcighan, Sean; Nguyen, Quynh; Sharon, Brian; Wittick, Brian; Dean, Bill; McNamara, Nancy; Correia, Richard
Subject: RE: Request from MA for RI to Meet w/Governor

Jack/Pat/Tim,

Ben Beasley is available to travel to MA to meet with the governor next Wednesday, to discuss the GI-199 process. I don't want RES to get out ahead of NRR on this since the current action for GI199 is in your hands, but Ben is willing to carry the flag for both RES and NRR if you are OK with that. I remain sensitive to our need to stay consistent in providing information and making commitments in response to these type of requests, so having NRR represented would add value from that perspective.

Nancy McNamara is the Region I SLO and would be interested in whether NRR wants to send a rep. I understand total number of NRC reps needs to be limited to about 4 and that Bill Dean will be attending.

Thanks,
Doug

BBB/64

From: Wittick, Brian
Sent: Tuesday, March 22, 2011 5:25 PM
To: McNamara, Nancy
Cc: Ellmers, Glenn; Andersen, James; OST05 Hoc; Grobe, Jack; Leeds, Eric; Meighan, Sean; Nguyen, Quynh; Sheron, Brian; Coe, Doug
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Hi Nancy,

We would be happy to assist RI with discussions similar to what we just did for NYS for Massachusetts. Let's talk tomorrow about plans.

Thanks.

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

From: McNamara, Nancy
Sent: Tuesday, March 22, 2011 4:40 PM
To: LIA04 Hoc; OST05 Hoc
Subject: Request from MA for RI to Meet w/Governor
Importance: High

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The RI Regional Administrator is available to support such a meeting with assistance from subject matter experts from our HQ staff.

Would you like us to coordinate this request through the EDO's office or through the Liaison Team?

Nancy

From: (b)(6)
Sent: Wednesday, March 23, 2011 10:52 AM
To: Virgilio, Martin
Cc: Miller, Charles
Subject: Re: Near Term Review

Marty,

I am delighted to participate. I do have some commitments that I cannot change. They are: March 27 - April 9. Then I am open until April 25- April 29. Then I am open until May 23. Also, will the NRC pay for my travel and accommodations in DC?

Best regards,

Bruce

Sent via BlackBerry by AT&T

From: "Virgilio, Martin" <Martin.Virgilio@nrc.gov>
Date: Wed, 23 Mar 2011 03:04:38 -0400
To: (b)(6) Miller, Charles<Charles.Miller@nrc.gov>; Holahan, Gary<Gary.Holahan@nrc.gov>; Grobe, Jack<Jack.Grobe@nrc.gov>; Sanfilippo, Nathan<Nathan.Sanfilippo@nrc.gov>
Cc: Borchardt, Bill<Bill.Borchardt@nrc.gov>; Weber, Michael<Michael.Weber@nrc.gov>; Muessle, Mary<Mary.Muessle@nrc.gov>; Andersen, James<James.Andersen@nrc.gov>; Ash, Darren<Darren.Ash@nrc.gov>
Subject: Near Term Review

All

Let me start by thanking you for agreeing to participate on the Task Group that will be chartered to identify near term actions in response to the ongoing accident at Fukushima Daiichi reactors.

Yesterday, I spoke with Bill Borchardt and Charlie Miller about this assignment. Bill expects that you will be working on this project full time at least until the 30 day quick look report is developed and the Commission is briefed on its contents.

While the specifics of the actions are still being finalized through the SRM development, it is likely that we will be asked to consider whether NRC should take actions to improve NRC and licensee programs to enhance safety; and, identify specific topics/areas for longer term assessment.

I have suggested to Charlie that we have a kick off meeting on Thursday morning. This would be an opportunity to align on the charter of the group, expected products and methods for conducting the review and developing recommendations.

One item that I would like to see us address on Thursday is internal stakeholder involvement. We may want to have a session early next week with the folks who have been serving on the site team and in the ops center to gather their insights.

BBB/65-

I have periodically pulsed Chuck Casto about areas that we should consider as part of our near term lessons learned. Chuck has suggested we look at B5b and in particular the location of the equipment, environmental conditions where actions will have to be taken, and whether there will be sufficient number of licensee staff needed to execute the recovery strategies. He also suggested we consider multiple simultaneous accidents at a single site, NPPs where fire coping strategies include an induced SBO, and that we look at our SBO requirements.

Marty

From: Sam Collins (b)(6)
Sent: Wednesday, March 23, 2011 1:27 PM
To: Virgilio, Martin
Subject: FW: Followup on Japan
Attachments: FukushimaIAEA.pptx

Marty, I'm catching up on forwarding E-mails, you may have seen this before.

Sam Collins
Samuel J. Collins Consulting, LLC
Nuclear Safety + Governance + Outreach Services
Cell: (b)(6)
Home: (b)(6)

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

From: Ted Quinn (b)(6)
Sent: Friday, March 18, 2011 5:06 PM
To: (b)(6)
Cc: Ted Quinn
Subject: Followup on Japan

Sam:

I am trying to followup on all we are hearing from Japan. See attached --- I had IAEA rep give this while I was chairing standards meetings in Germany this week.

Can you please advise --- what do you think NRC will be requiring in categories --- not final acceptance criteria -- for updates to U.S. plants.

I would assume you would say that NRC will conduct an internal review of seismic and environmental (external events -- like Tsunami events).

Is that what you think?

Best regards,

Ted

Bob/ lab

Japan Events So Far

2011 March 15

11:45 CET



Fukushima Daini

Fukushima Daiichi

Main Sources

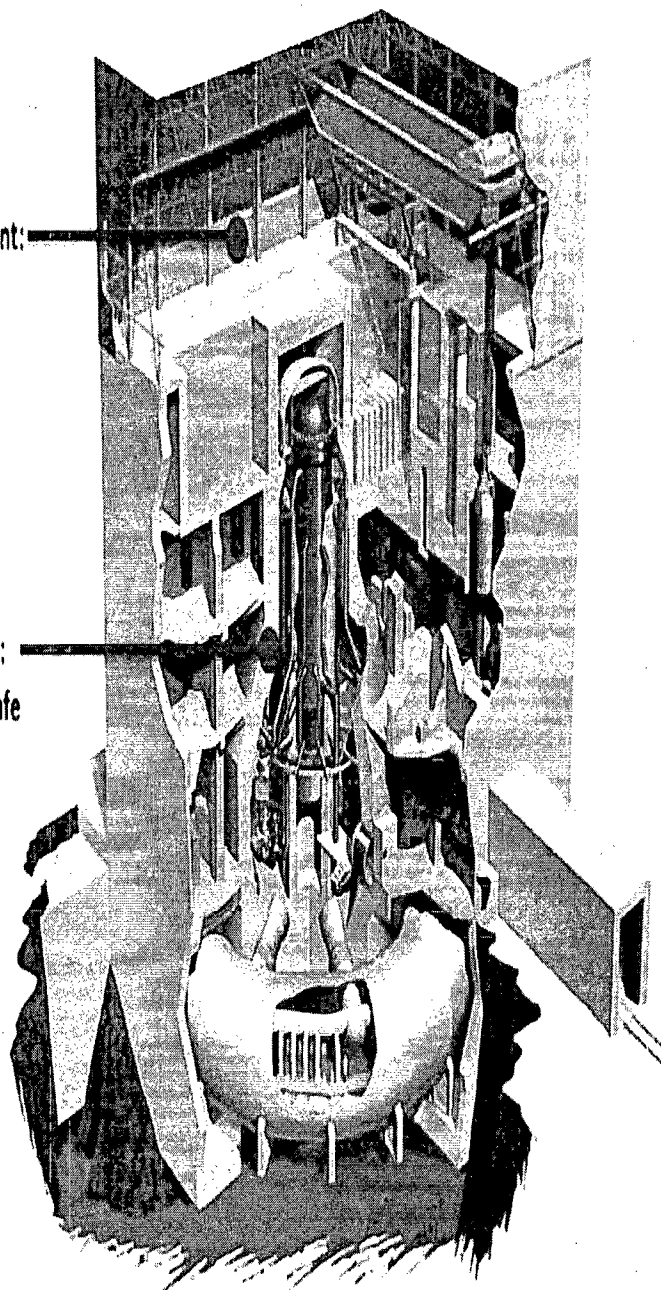
- <http://www.tepco.co.jp/en/press/corp-com/release/index-e.html>
 - Terse, but more informative than others
 - Often behind media and IAEA reports
- <http://www.iaea.org/press/>
 - Cautious, but credible
- <http://ansnuclearcafe.org/>
 - News clipping service
 - Links to above sites

Secondary containment:

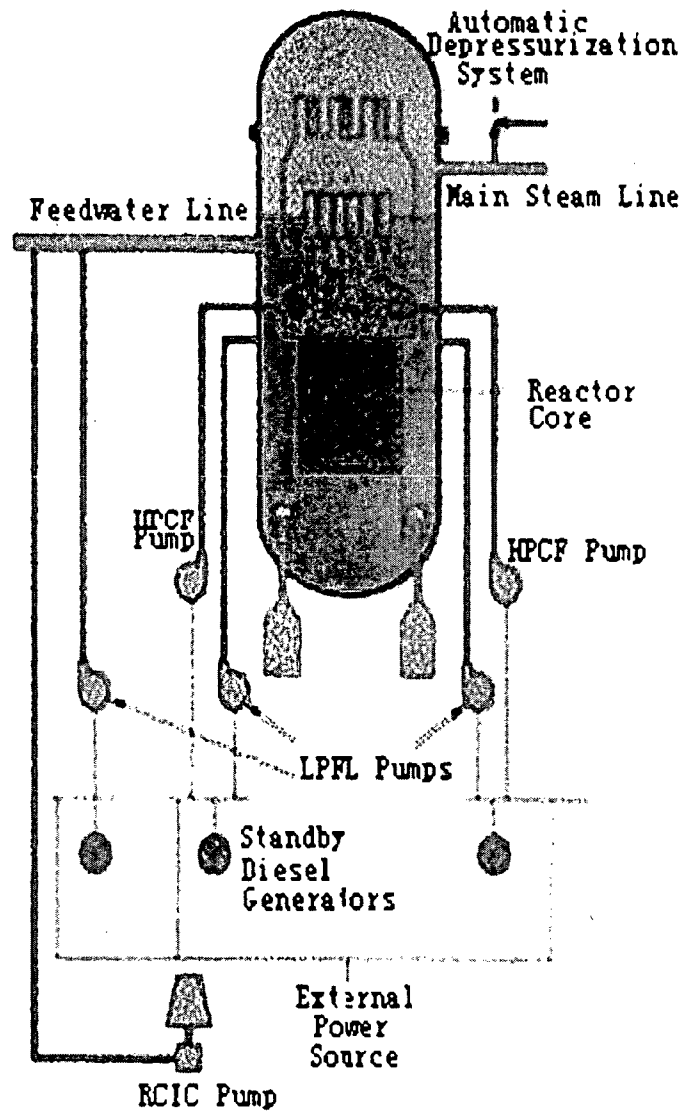
Area of explosion at
Fukushima Daiichi 1

Primary containment:

Remains intact and safe



Boiling Water Reactor Design



Fukushima Daiichi

Friday

- Initial condition Units 1-4 (1100 Mwe) operating
- All units tripped
- All units cooled by RCIC
- Unit 1 increase in containment pressure
 - SBLOCA?
- Additional diesels brought from off-site

Fukushima Daiichi

Saturday

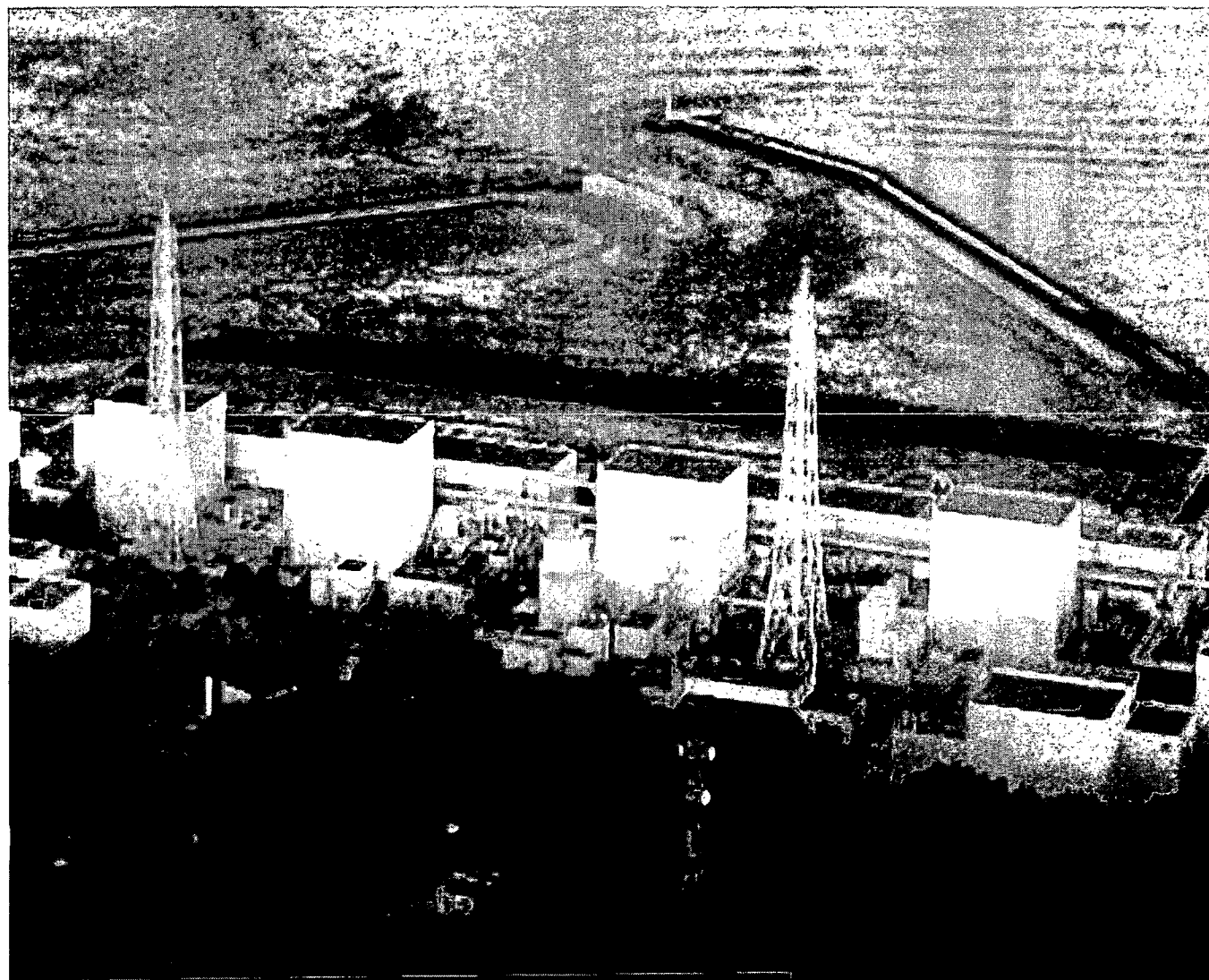
- Cooling all units transferred to make up water condensate system
- Units 1, 2, & 4 suppression pool temperature high
- RCIC used to inject water in Unit 1
- A control rod stuck out in Unit 1?
- Containment venting Units 1, 2 & 3?

Fukushima Daini Sunday

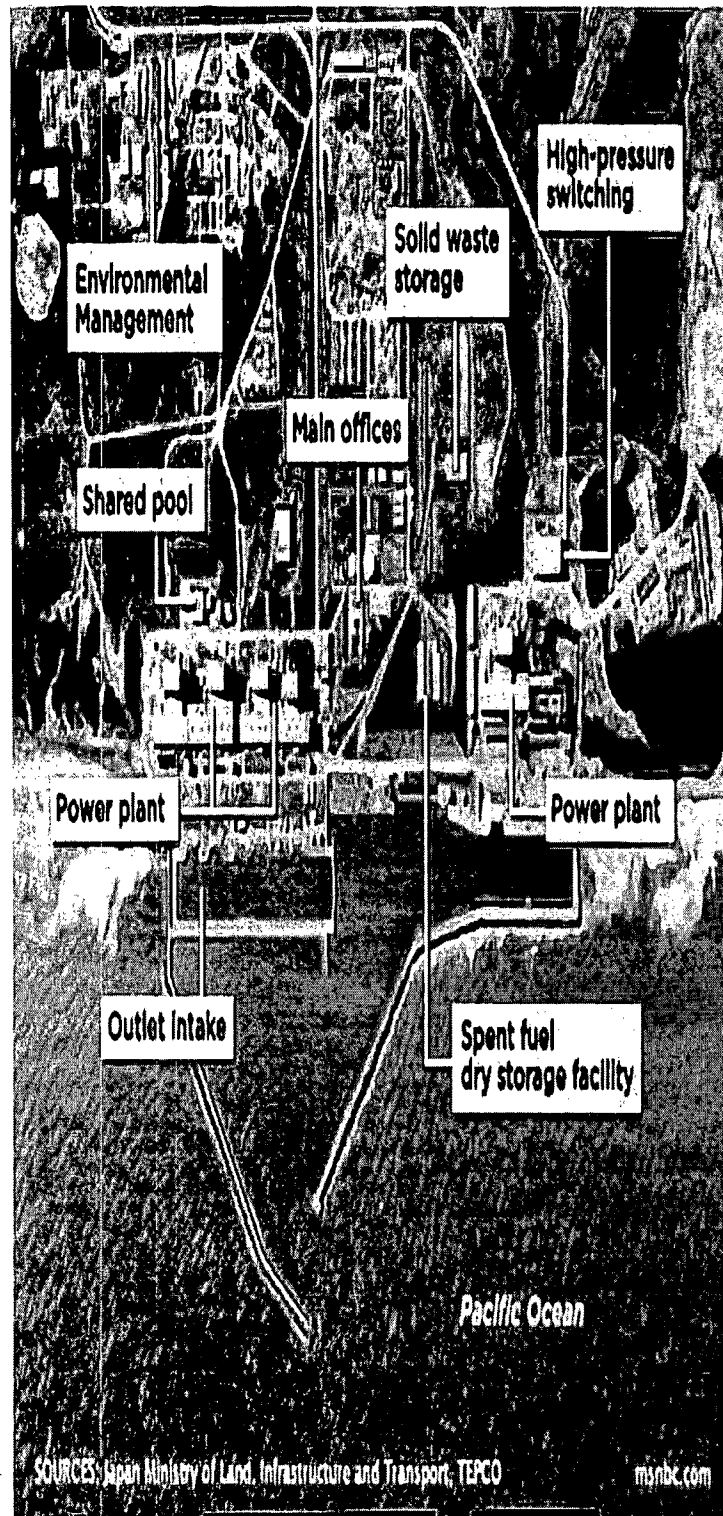
- Unit 3 in cold shutdown
- Units 1, 2, & 4 normal cooling restored

Fukushima Daini Sunday

- All units in cold shutdown
- Explosion in Unit 3
- Increased dose rate at site boundary



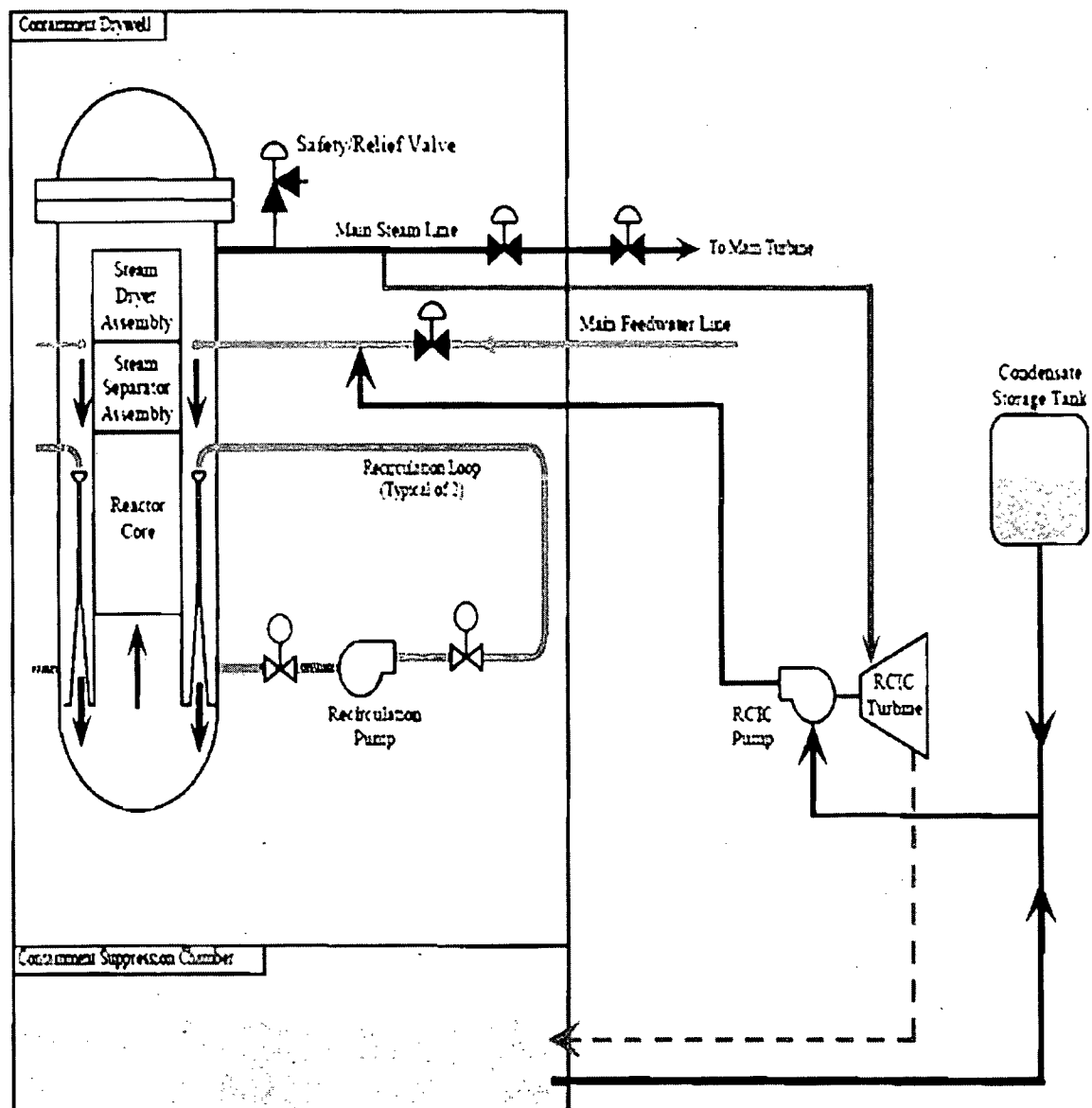
Fukushima Daiichi Nuclear Power Station



Fukushima Daiichi

Friday

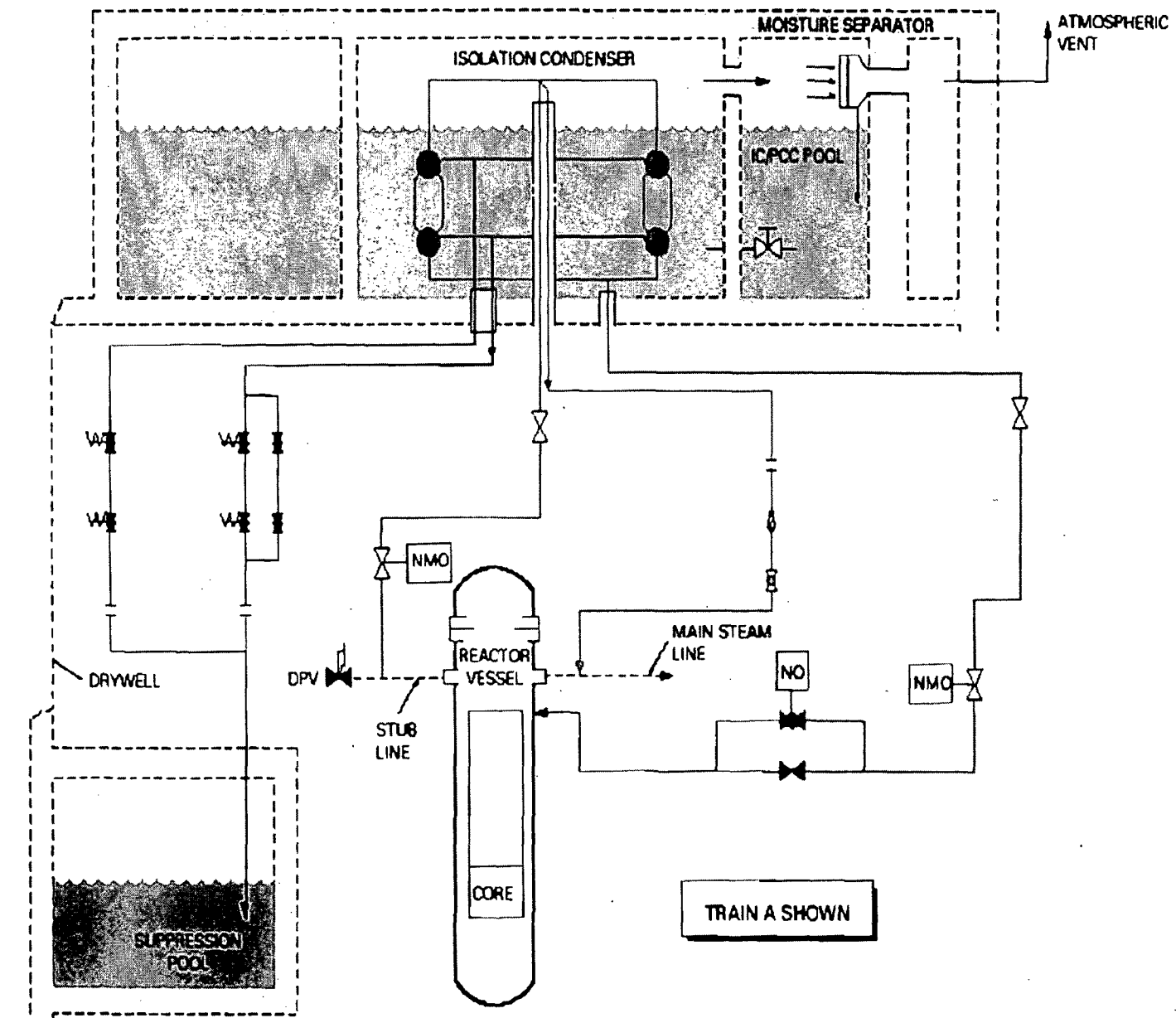
- Initial condition: Units 1 (460 Mwe) and 2-3 (784 Mwe) operating. Units 4, 5&6 shutdown
 - All unit 4 fuel offloaded to spent fuel pool
- Reactor trip, Loss of Offsite Power all units
- 4 workers injured in earthquake
- SBLOCA unit 1 and ECCS initiation
- All diesels failed after 1 hour
 - Loss of service water?
 - Loss of fuel supply?
 - Flooding of diesels?
 - Flooding of switchgear rooms?
- At this point the units 1-4 were being cooled by pressure relief and recirculation (RCIC)
 - Turbine driven system
- Unit 1 RCIC failed after 8 hours due to loss of DC control power supply



Fukushima Daiichi

Saturday

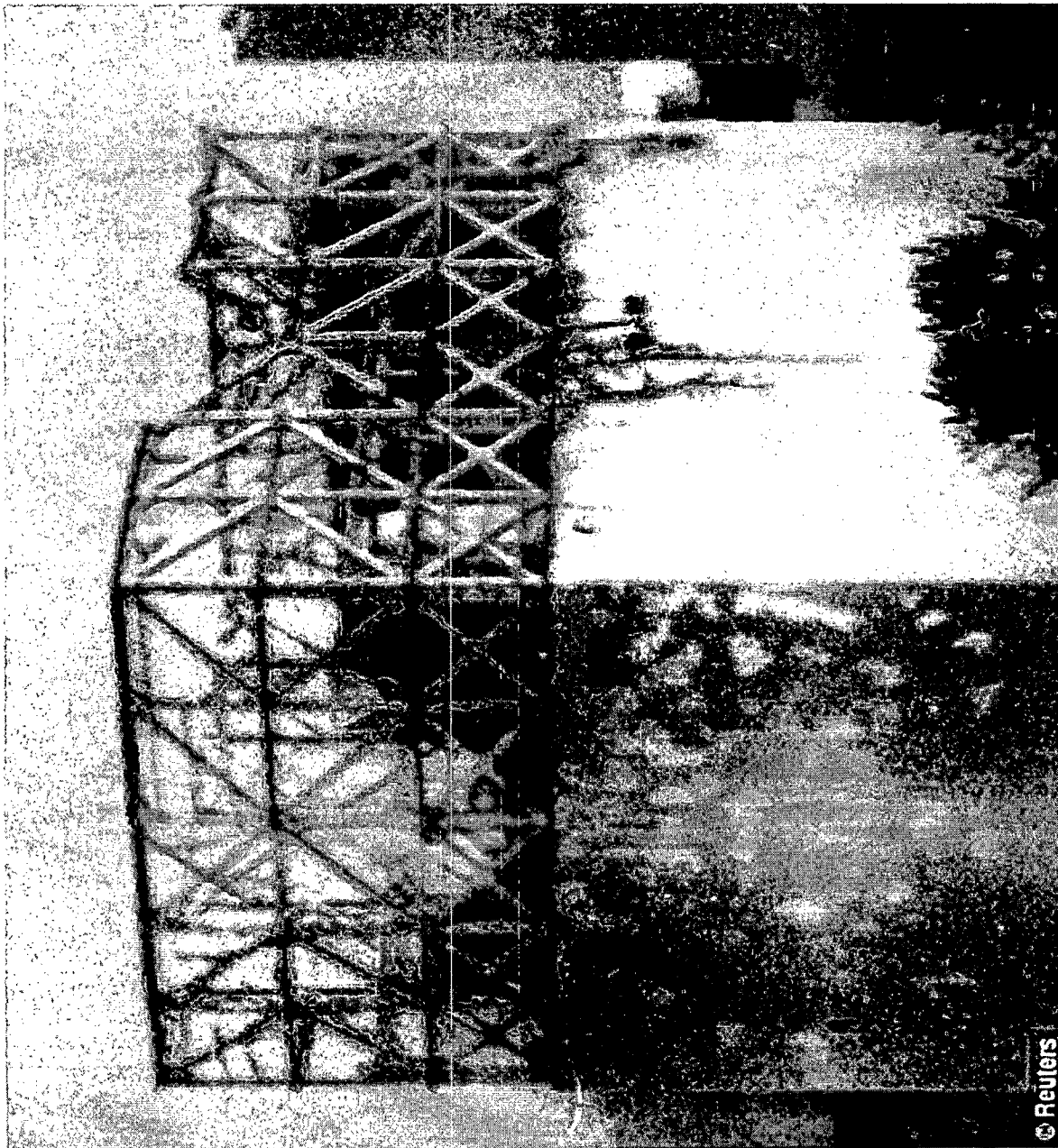
- RPV level dropping in units 1 & 2
- Unit 1 being cooled by isolation condenser
 - Other units on RCIC
 - HPCI in unit 3
- 3km evacuation and 10km shield in place ordered because of feared fuel damage in units 1 & 2
- Decision to vent steam from RPV(s)
 - Concern that RCIC is not adding water pressure
- Cooling in all units switched from RCIC to make-up water condensate system
- Unit 1 containment pressure increasing
- Offsite power restored
- Unit 1 RPV level dropping, Unit 2 level low, but stable



Fukushima Daiichi

Saturday

- Unit 1 containment venting
- Increase in radiation at site boundary (above operating limits)
- Unit 1 reactor building explodes
 - 4 workers injured in the explosion.
- Exposure of one employee determined to be 100 mSv
- Evacuation ordered to 20 km
- Began injecting borated seawater into Unit 1 RPV



© Reuters

Fukushima Daiichi

Sunday

- Unit 3 HPCI shuts down, RCIC cannot be started
- Unit 3 containment venting
- Increasing radiation levels off-site. Above operating limits.
- Unit 3 depressurized RPV and start feeding seawater
- 2 control room operators – in full masks began feeling sick
- Concerns raised about spent fuel pool cooling
- Unit 3 reactor building explodes
6 workers injured in explosion
- RCIC fails at Unit 2
- Seawater injection stopped in Unit 3
Government order



After the explosion at Unit 1,
the top of the reactor building is
damaged

Steam venting
out of the
building

After the explosion at Unit 3,
damage to the reactor
building can be seen. Steam
can be seen venting out of
the reactor building

Smoke or dust plume
from the explosion

Image Credit: DigitalGlobe
Image Annotation: ISIS
Image Date: March 14, 2011

Fukushima Daiichi

Sunday

- Maximum dose rate on site 156 mR/hr
- Maximum exposed worker 10.6 R
- In evening maximum dose rate on site 4.4 mR/hr

Fukushima Daiichi

Monday

- Second explosion at Unit 3
 - 3 workers injured
- RPV level decreasing in Unit 2
- Explosion at Unit 2
 - Near suppression pool
- Spent fuel pool on fire Unit 4
- Dose rate on site 400 mSv/hr
 - Non-essential site personnel evacuated

Fukushima Daiichi

Tuesday

- Second explosion at Unit 3
 - 3 workers injured
- RPV level decreasing in Unit 2
- Spent fuel fire extinguished
- Explosion in reactor building of Unit 4

From: E&E Publishing, LLC <ealerts@eenews.net>
Sent: Wednesday, March 23, 2011 8:38 AM
To: Virgilio, Martin
Subject: Codes Enclosed -- March 23 -- ClimateWire is ready

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NUCLEAR CRISIS: JAPAN & THE FUTURE OF ENERGY POLICY

☐

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CLIMATEWIRE -- WED., MARCH 23, 2011 -- [Read the full edition](#)

1. ENERGY EFFICIENCY: As more commercial buildings go green, a few go 'net-zero'

A few years ago in central Florida, John Santarpia had an idea. He was the president and CEO of a credit union and felt he needed to do something to improve its image. He and his colleagues had found a lot in Lakeland, a city of about 100,000 residents, with an ice cream shop on it. Knowing the community wouldn't be in favor of losing the ice cream shop, Santarpia decided to build a flagship building for his credit union around it. Whatever it was, he wanted to make it green. What resulted was the state's first commercial net-zero-energy building

TODAY'S STORIES

2. COAL: Interior opens federal land for mining coal that could be exported to Asia
3. NATURAL GAS: Stable price remains the key to shifting power sector from

222/67

coal to natural gas

4. **NUCLEAR:** Engineers still struggle to manage Fukushima 1, radiation spread and rotating blackouts
5. **WATER:** U.N. ponders how to expand businesses that bring clean water to Africa's slums
6. **ENERGY EFFICIENCY:** DOE finds U.S. steel industry highly efficient; EPA sees room for more
7. **EFFICIENCY:** Texas can gain billions by trimming energy waste -- study
8. **CARBON MARKETS:** Indian investors are ditching credits for renewable energy incentives
9. **RENEWABLE ENERGY:** Wind energy faces uncertainty and sales tax in Idaho
10. **WATER:** Critical shortages loom in Peru's capital
11. **ENDANGERED SPECIES:** Feds seek to double number of nesting areas for endangered bird

E&ETV'S ONPOINT

12. **EPA:** Clean Energy Group's Bradley discusses 'Utility MACT' proposal

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Subject: Near Term Review (Task Group Kick Off)
Location: O-17H10 (Bridgeline: 888-790-6563 (b)(6))
Start: Thu 3/24/2011 8:15 AM
End: Thu 3/24/2011 9:00 AM
Recurrence: (none)
Meeting Status: Meeting organizer
Organizer: Virgilio, Martin
Required Attendees: Miller, Charles; Holahan, Gary; Grobe, Jack; Sanfilippo, Nathan
Davidson, Cynthia (b)(6)
Categories: Business

3/23/11 SCianci x1714



Sandy Cianci

Administrative Assistant to Marty Virgilio, DEDR
Office of the Executive Director for Operations
O-17 H13
301-415-1714
sandra.cianci@nrc.gov

BBB/68

From: E&E Publishing, LLC <ealerts@eenews.net>
Sent: Friday, March 25, 2011 9:07 AM
To: Virgilio, Martin
Subject: Codes Enclosed -- March 25 -- ClimateWire is ready



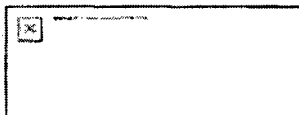
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CLIMATEWIRE -- FRI, MARCH 25, 2011 -- [Read the full edition](#)

1. **NUCLEAR:** U.S. experts blame Fukushima 1 explosions and radiation on failed venting system

The hydrogen explosions that shattered the tops of two reactor buildings at the Fukushima 1 nuclear complex followed the venting of hydrogen and steam by plant operators desperate to prevent a far greater disaster: a high-pressure explosion of the primary reactor containment shell and radioactivity release, a former senior U.S. nuclear official concludes.

2. **WHEAT:** Going back into the wild to build a stronger, more climate-resilient crop

A genetic archaeologist of sorts, Cary Fowler works to save the wild species threatened by crop domestication. Fowler is the executive director of the Global Crop Diversity Trust, an organization that seeks to preserve the genetic diversity of plants in seed banks. By providing a backup of wild varieties for their domesticated crop cousins, seed banks provide insurance in the case of a devastating blow to yields.

BBB/69

TODAY'S STORIES

3. **POLICY:** Grants are more effective and cheaper than tax credits for spurring clean energy -- report
 4. **WATER:** Southern Co. to reveal more to investors about climate-related water risks
 5. **PUBLIC OPINION:** Climate adaptation for hometown is not always top priority, researcher finds
 6. **ADAPTATION:** Experts learn the bottom-up approach to financing protective measures
 7. **SCIENCE:** Researchers find ocean wind speeds rising, creating rougher seas
 8. **OFFSHORE WIND:** Interior moves on offshore project in Del.
 9. **BIOFUELS:** Food for fuels is starving millions, says Nestlé head
 10. **NATIONS:** Australian prime minister suffers carbon tax setback
 11. **ENERGY MARKETS:** Enercon loses its entire Indian subsidiary
 12. **NUCLEAR CRISIS:** Germany plans more rapid nuclear phaseout
-

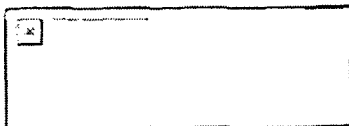
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Coe, Doug

From: Sydnor, Russell
Sent: Friday, March 25, 2011 9:43 AM
To: Richards, Stuart
Cc: Coe, Doug; Coyne, Kevin; Case, Michael; West, Stephanie
Subject: Re: Volunteers needed - Ops Center RST Schedule 3/26-4/2 (input needed by noon today)

Jeanne Dion has expressed interest. Leroy Hardin has also offered his time to support the Ops ctr.

Sent from NRC Blackberry
Russell Sydnor

(b)(6)

From: Richards, Stuart
To: RES_DE
Cc: Coe, Doug; Coyne, Kevin; Gibson, Kathy; Case, Michael; West, Stephanie
Sent: Fri Mar 25 09:39:15 2011
Subject: Volunteers needed - Ops Center RST Schedule 3/26-4/2 (input needed by noon today)

The Ops Center is seeking volunteers for the Reactor Safety Team.

The watchbill is in this e-mail below, with the slots needing to be filled indicated.

If you want to volunteer, please check with your BC and let Stephanie West know by noon today.

Thanks
Stu

From: RST01 Hoc
Sent: Wednesday, March 23, 2011 12:05 PM
To: Alter, Peter; Morlang, Gary; Hasselberg, Rick; Berry, Rollie; Collins, Frank; Thomas, Eric; Schoenebeck, Greg; McGovern, Denise; Rini, Brett; Bukharin, Oleg; Sloan, Scott; Circle, Jeff; Esmaili, Hossein; Ward, Leonard; Laur, Steven; Salay, Michael; Fuller, Edward; Schaperow, Jason; Marksberry, Don; Gilmer, James; Miranda, Samuel; Arndt, Steven; Helton, Donald; Norton, Charles; Kolb, Timothy; Brown, Eva; Shea, James; Vick, Lawrence; Brown, Michael; Williams, Donna; Roggenbrodt, William; Thorp, John; Kugler, Andrew; Williams, Joseph; Padovan, Mark; Isom, James; Hart, Ken; Bloom, Steven; Jervy, Richard
Subject: FW: RST Schedule 3/26-4/2

All,

Please look at current watchbills from the OST. Ed Fuller has signed up for swing shifts for Accident Analyst on 3/29 and 4/5. Other than that, please reply to RST01 so we can start filling in the holes on the watchbill.

Thanks for all of your support.

Eric Thomas
RST Coordinator

From: OST02 HOC
Sent: Wednesday, March 23, 2011 8:44 AM
To: RST01 Hoc
Subject: RST Schedule 3/26-4/2

BOBB/70

Reactor Safety Team			
RST Director			
Sat	26-Mar	7am - 3pm	Pat Hiland
Sat	26-Mar	3pm-11pm	Bill Ruland
Sat-Sun	3/26-3/27	11pm - 7am	Mike Case
Sun	27-Mar	7am - 3pm	Pat Hiland
Sun	27-Mar	3pm-11pm	Fred Brown
Sun-Mon	3/27-3/28	11pm - 7am	Mike Case
Mon	28-Mar	7am - 3pm	Pat Hiland
Mon	28-Mar	3pm-11pm	Fred Brown
Mon-Tue	3/28-3/29	11pm - 7am	Mike Case
Tue	29-Mar	7am - 3pm	Jennifer Uhle
Tue	29-Mar	3pm-11pm	Fred Brown
Tue-Wed	3/29-3/30	11pm - 7am	Mike Case
Wed	30-Mar	7am - 3pm	Jennifer Uhle
Wed	30-Mar	3pm-11pm	Fred Brown
Wed-Thur	3/30-3/31	11pm - 7am	Dave Skeen
Thur	31-Mar	7am - 3pm	Jennifer Uhle
Thur	31-Mar	3pm-11pm	Bill Ruland
Thur-Fri	3/31-4/1	11pm - 7am	Dave Skeen
Fri	1-Apr	7am - 3pm	Jennifer Uhle
Fri	1-Apr	3pm-11pm	Bill Ruland
Fri-Sat	4/1-4/2	11pm-7am	Dave Skeen
RST Coordinator			
Fri-Sat	3/25-3/26	11pm-7am	Frank Collins
Sat	26-Mar	7am - 3pm	Eric Thomas
Sat	26-Mar	3pm-11pm	
Sat-Sun	3/26-3/27	11pm - 7am	
Sun	27-Mar	7am - 3pm	Peter Alter
Sun	27-Mar	3pm-11pm	
Sun-Mon	3/27-3/28	11pm - 7am	Frank Collins
Mon	28-Mar	7am - 3pm	Rick Hasselberg
Mon	28-Mar	3pm-11pm	
Mon-Tue	3/28-3/29	11pm - 7am	Mike Morlang
Tue	29-Mar	7am - 3pm	Peter Alter
Tue	29-Mar	3pm-11pm	Greg Schoenebeck
Tue-Wed	3/29-3/30	11pm - 7am	Mike Morlang
Wed	30-Mar	7am - 3pm	Rick Hasselberg
Wed	30-Mar	3pm-11pm	Greg Schoenebeck
Wed-Thur	3/30-3/31	11pm - 7am	Frank Collins
Thur	31-Mar	7am - 3pm	Peter Alter

Thur	31-Mar	3pm-11pm	Greg Schoenebeck
Thur-Fri	3/31-4/1	11pm - 7am	
Fri	1-Apr	7am - 3pm	Rick Hasselberg
Fri	1-Apr	3pm-11pm	
Fri-Sat	4/1-4/2	11pm-7am	Frank Collins
Severe Accident/PRA			
Sat	26-Mar	7am - 3pm	Steven Arndt
Sat	26-Mar	3pm-11pm	
Sat-Sun	3/26-3/27	11pm - 7am	
Sun	27-Mar	7am - 3pm	
Sun	27-Mar	3pm-11pm	
Sun-Mon	3/27-3/28	11pm - 7am	
Mon	28-Mar	7am - 3pm	Jeff Circle
Mon	28-Mar	3pm-11pm	
Mon-Tue	3/28-3/29	11pm - 7am	
Tue	29-Mar	7am - 3pm	Hossein Esmaili
Tue	29-Mar	3pm-11pm	
Tue-Wed	3/29-3/30	11pm - 7am	
Wed	30-Mar	7am - 3pm	Jim Gilmer?
Wed	30-Mar	3pm-11pm	Hossein Esmaili
Wed-Thur	3/30-3/31	11pm - 7am	
Thur	31-Mar	7am - 3pm	
Thur	31-Mar	3pm-11pm	Hossein Esmaili
Thur-Fri	3/31-4/1	11pm - 7am	Ray Skarda
Fri	1-Apr	7am - 3pm	
Fri	1-Apr	3pm-11pm	
Fri-Sat	4/1-4/2	11pm-7am	Ray Skarda
BWR Expertise			
Sat	26-Mar	7am - 3pm	Mike Brown
Sat	26-Mar	3pm-11pm	Chuck Norton
Sat-Sun	3/26-3/27	11pm - 7am	
Sun	27-Mar	7am - 3pm	Mike Brown
Sun	27-Mar	3pm-11pm	Chuck Norton
Sun-Mon	3/27-3/28	11pm - 7am	
Mon	28-Mar	7am - 3pm	Mike Brown
Mon	28-Mar	3pm-11pm	Chuck Norton
Mon-Tue	3/28-3/29	11pm - 7am	
Tue	29-Mar	7am - 3pm	Mike Brown
Tue	29-Mar	3pm-11pm	Chuck Norton
Tue-Wed	3/29-3/30	11pm - 7am	
Wed	30-Mar	7am - 3pm	Mike Brown
Wed	30-Mar	3pm-11pm	Chuck Norton

Wed-Thur	3/30-3/31	11pm - 7am	
Thur	31-Mar	7am - 3pm	Mike Brown
Thur	31-Mar	3pm-11pm	Chuck Norton
Thur-Fri	3/31-4/1	11pm - 7am	
Fri	1-Apr	7am - 3pm	Mike Brown
Fri	1-Apr	3pm-11pm	Chuck Norton
Fri-Sat	4/1-4/2	11pm-7am	
RST Comm/ERDS Operator			
Sat	26-Mar	7am - 3pm	Donna Williams
Sat	26-Mar	3pm-11pm	
Sat-Sun	3/26-3/27	11pm - 7am	
Sun	27-Mar	7am - 3pm	Mark Padovan
Sun	27-Mar	3pm-11pm	Bill Roggenbrodt
Sun-Mon	3/27-3/28	11pm - 7am	
Mon	28-Mar	7am - 3pm	Mark Padovan
Mon	28-Mar	3pm-11pm	Bill Roggenbrodt
Mon-Tue	3/28-3/29	11pm - 7am	Andy Kugler
Tue	29-Mar	7am - 3pm	Mark Padovan
Tue	29-Mar	3pm-11pm	Bill Roggenbrodt
Tue-Wed	3/29-3/30	11pm - 7am	Andy Kugler
Wed	30-Mar	7am - 3pm	Mark Padovan
Wed	30-Mar	3pm-11pm	Bill Roggenbrodt
Wed-Thur	3/30-3/31	11pm - 7am	
Thur	31-Mar	7am - 3pm	Andy Kugler
Thur	31-Mar	3pm-11pm	Bill Roggenbrodt
Thur-Fri	3/31-4/1	11pm - 7am	
Fri	1-Apr	7am - 3pm	Mark Padovan
Fri	1-Apr	3pm-11pm	
Fri-Sat	4/1-4/2	11pm-7am	
RST Support (Seismology Q&A)			
Sat	26-Mar	7am - 3pm	
Sat	26-Mar	3pm-11pm	
Sat-Sun	3/26-3/27	11pm - 7am	
Sun	27-Mar	7am - 3pm	
Sun	27-Mar	3pm-11pm	
Sun-Mon	3/27-3/28	11pm - 7am	
Mon	28-Mar	7am - 3pm	
Mon	28-Mar	3pm-11pm	
Mon-Tue	3/28-3/29	11pm - 7am	
Tue	29-Mar	7am - 3pm	
Tue	29-Mar	3pm-11pm	
Tue-Wed	3/29-3/30	11pm - 7am	

Wed	30-Mar	7am - 3pm	
Wed	30-Mar	3pm-11pm	
Wed-Thur	3/30-3/31	11pm - 7am	
Thur	31-Mar	7am - 3pm	
Thur	31-Mar	3pm-11pm	
Thur-Fri	3/31-4/1	11pm - 7am	
Fri	1-Apr	7am - 3pm	
Fri	1-Apr	3pm-11pm	
Fri-Sat	4/1-4/2	11pm-7am	
RST Support (Structural)			
Sat	26-Mar	7am - 3pm	Off (On Call)
Sat	26-Mar	3pm-11pm	Off (On Call)
Sat-Sun	3/26-3/27	11pm - 7am	Off (On Call)
Sun	27-Mar	7am - 3pm	Off (On Call)
Sun	27-Mar	3pm-11pm	Off (On Call)
Sun-Mon	3/27-3/28	11pm - 7am	Off (On Call)
Mon	28-Mar	7am - 3pm	Off (On Call)
Mon	28-Mar	3pm-11pm	Off (On Call)
Mon-Tues	3/28-3/29	11pm - 7am	Off (On Call)
Tues	29-Mar	7am - 3pm	Off (On Call)
Tues	29-Mar	3pm-11pm	Off (On Call)
Tues-Wed	3/29-3/30	11pm - 7am	Off (On Call)
Wed	30-Mar	7am - 3pm	Off (On Call)
Wed	30-Mar	3pm-11pm	Off (On Call)
Wed-Thur	3/30-3/31	11pm - 7am	Off (On Call)
Thur	31-Mar	7am - 3pm	Off (On Call)
Thur	31-Mar	3pm-11pm	Off (On Call)
Thur-Fri	3/31-4/1	11pm - 7am	Off (On Call)
Fri	1-Apr	7am - 3pm	Off (On Call)
Fri	1-Apr	3pm-11pm	Off (On Call)
Fri-Sat	4/1-4/2	11pm-7am	Off (On Call)

Greenwood, Carol

From: Gibson, Kathy
Sent: Saturday, March 26, 2011 1:45 PM
To: Lee, Richard
Subject: Fw: NUREG/CR-6920
Attachments: image001.jpg

From: Tinkler, Charles
To: Gibson, Kathy; Sheron, Brian; Richards, Stuart
Cc: Case, Michael; Schaperow, Jason
Sent: Sat Mar 26 12:22:25 2011
Subject: RE: NUREG/CR-6920

No, we do not believe the numbers being cited remain valid

What remains true is:

Station blackout is a dominant event

Early failure depends on how definition of early – if it is defined as relative to evacuation (as it should be) then there is no early failure since the short term SBO doesn't fail containment due to liner failure until about 8 hrs. the long term SBO about 20 hrs. Japan was an even slower transient since for several of the units RCIC worked for a while and the isolation condenser on Unit 1 appears to have worked for a while.

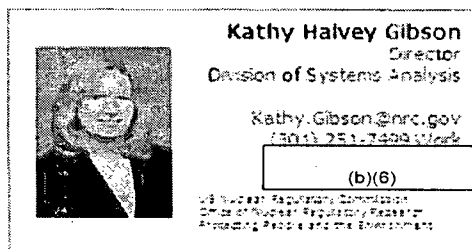
In the bad old days conservative SBO calcs may have shown liner failure earlier (~ 4hrs or earlier) due the conservatism in the accident progression modeling.

Some older studies defined early containment failure as any containment failure that occurs shortly after RPV failure, which is true for most SBO scenarios (drywell floor is not flooded)

If the drywell floor is flooded as may be the case for Fukushima Units 2& 3 liner failure is not likely until boiloff of all water.

From: Gibson, Kathy
Sent: Friday, March 25, 2011 6:01 PM
To: Sheron, Brian; Richards, Stuart
Cc: Case, Michael; Schaperow, Jason; Tinkler, Charles
Subject: RE: NUREG/CR-6920

I asked Jason and Charlie to get with DE next week and let us know.



BGG/71

From: Sheron, Brian
Sent: Friday, March 25, 2011 6:00 PM
To: Richards, Stuart
Cc: Gibson, Kathy; Case, Michael; Schaperow, Jason
Subject: RE: NUREG/CR-6920

Do we still agree with the probability numbers in your third bullet based on what we learned from SOARCA?

From: Richards, Stuart
Sent: Friday, March 25, 2011 5:54 PM
To: Sheron, Brian
Cc: Gibson, Kathy; Case, Michael
Subject: NUREG/CR-6920

Brian

A quick look at NUREG/CR-6920 indicates the following preliminary information:

- The purpose of 6920 was to look at the impact of assumed degradation of the containment on the probability of containment failure. For instance, 6920 assumed cases of 25% or 50% corrosion of various locations within the containment as part of the study. The study looked at both PWRs and BWRs.
- 6920 used information from NUREG-1150 as a starting point.
- NUREG-1150 estimates about a 56% probability of early containment failure at Peach Bottom (Mark I containment) from all scenarios, and about a 36% probability from a direct melt-through of the containment once the core has breached the RPV. These numbers are relatively consistent with the 6920 numbers. 6920 concluded that the corrosion scenarios don't impact the numbers much because the probability is so dominated by the core melt through scenario.
- NUREG-1150 lists station blackout as the dominant risk.

Note that the probability of a melt-through of containment assumes a breach of the RPV. I think it also assumes a fairly quick accident progression, so the fact that the Japanese event started two weeks ago may impact the probability of containment failure.

We can provide more info on Monday.

Stu

From: Sanfilippo, Nathan
Sent: Monday, March 28, 2011 12:38 PM
To: Leeds, Eric; Johnson, Michael; Wiggins, Jim; Moore, Scott; Haney, Catherine; Sheron, Brian; Burns, Stephen; Dean, Bill; McCree, Victor; Satorius, Mark; Collins, Elmo; Zimmerman, Roy; Lew, David
Cc: Grobe, Jack; Holahan, Gary; Miller, Charles; Virgilio, Martin; Davidson, Cynthia; Borchardt, Bill; Weber, Michael
Subject: Draft task force charter
Attachments: Draft charter.docx
Importance: High

All,

Attached is the draft task force charter for discussion at today's 4 PM teleconference.

If you'd prefer to gather in person at HQ, the team will be in T-6C1.

BRIDGELINE: 888-390-1019 PASSCODE

(b)(6)

Thanks,
Nathan

From: Sanfilippo, Nathan
Sent: Friday, March 25, 2011 4:16 PM
To: Leeds, Eric; Johnson, Michael; Wiggins, Jim; Moore, Scott; Haney, Catherine; Sheron, Brian; Burns, Stephen; Dean, Bill; McCree, Victor; Satorius, Mark; Collins, Elmo; Zimmerman, Roy
Cc: Grobe, Jack; Holahan, Gary; Miller, Charles; Virgilio, Martin
Subject: Monday's telecon to discuss the draft task force charter
Importance: High

All,

I just wanted to give you a little background for the scheduler you received for a Monday 4 PM teleconference.

The senior level agency task force to evaluate the need for agency actions following the events in Japan has been formed. It will be led by Charlie Miller, and includes Gary Holahan, Jack Grobe, and myself. The task force is writing its charter and will have a draft ready around lunchtime on Monday. We intend to send you that draft so it can be discussed at the 4 PM teleconference, at which time feedback is welcome. We realize this is a short turnaround, but we wanted to involve you as we finalize the charter, get it approved, and get to work – as the clock is ticking.

Thanks for your support on Monday – and feel free to have someone else sit in on the call if you are not available.

Thanks,
Nathan

Nathan Sanfilippo

BBB/72

Executive Technical Assistant
Office of the Executive Director for Operations
U.S. Nuclear Regulatory Commission
301.415.3951
nathan.sanfilippo@nrc.gov

**CHARTER FOR THE NUCLEAR REGULATORY COMMISSION TASK FORCE
TO CONDUCT A NEAR-TERM EVALUATION OF THE NEED FOR AGENCY ACTIONS
FOLLOWING THE EVENTS IN JAPAN**

Objective

The objective of this task force is to conduct a methodical and systematic review of relevant NRC regulatory requirements, programs, and processes, and their implementation, to recommend whether the agency should make near-term additional improvements to our regulatory system. This task force will identify a framework and topics for review and assessment for the longer-term effort.

Scope

The task force review will include the following:

- a. A near-term review to:
 - Evaluate currently available technical and operational information from the events that have occurred at the Fukushima Daiichi nuclear complex in Japan to identify potential or preliminary near term/immediate operational or regulatory actions affecting domestic reactors of all designs, including their spent fuel pools.
 - The task force will evaluate, at a minimum, the following technical issues and determine priority for further examination and potential agency action:
 - External event issues (e.g. seismic, flooding, fires, severe weather)
 - Station blackout
 - Severe accident measures (e.g., emergency operating procedures, severe accident management guidelines)
 - B.5.b (10 CFR 50.54 (hh)(2))
 - Emergency preparedness (e.g., radiological protection, emergency planning zones)
 - Incident response (e.g., emergency communications, operations center lessons-learned)
 - Develop recommendations, as appropriate, for potential changes to inspection procedures and licensing review guidance, and recommend whether generic communications, orders, or other regulatory requirements are needed.
- b. Recommendations for the content, structure, and estimated resource impact for the longer-term review.

Coordination and Communications

The near-term task force will:

- Solicit stakeholder input as appropriate, but remain independent of industry efforts.
- Coordinate and cooperate where applicable with international efforts reviewing the events in Japan for additional insights.
- Provide recommendations to the Commission for any immediate policy issues identified prior to completion of the near-term review.
- Provide recommendations to program offices for any immediate actions not involving policy issues, prior to completion of the near-term review.
- Identify resource implications of near-term actions.
- Develop a communications plan.
- Update and brief internal stakeholders, as appropriate.

Expected Product and Schedule

The task force will provide its observations, conclusions, and recommendations in the form of a written report to the Deputy Executive Director for Reactor and Preparedness Programs at the completion of the 90-day near-term review.

During the development of its report, the task force will brief the Commission on the status of the review at approximately the 30 and 60 day points

The report will be transmitted to the Commission via a SECY paper, and the task force will brief the Commission on the results of the near-term effort at approximately the 90-day point. The report will be released to the public via normal Commission processes.

The task force will recommend a framework for a longer-term review as a part of the near-term report. The longer-term review will begin as soon as the NRC has sufficient technical information from the events in Japan (with a goal of beginning by the end of the near-term review).

Staffing

The task force will consist of the following members:

Leader	Charles Miller	FSME
Senior Managers	Jack Grobe	NRR
	Gary Holahan,	NRO
Senior Staff	Nathan Sanfilippo	OEDO
Administrative Assistant	Cynthia Davidson	OGC

Additional task force members will be added as needed. For the near-term review, other staff members may be consulted on a part-time basis.

EDO Interface

The task force will keep agency leadership informed on the status of the effort and provide early identification of significant findings. The task force will report to the Deputy Executive Director for Reactor and Preparedness Programs.

From: E&E Publishing, LLC <ealerts@eenews.net>
Sent: Monday, March 28, 2011 8:48 AM
To: Virgilio, Martin
Subject: Codes Enclosed -- March 28 -- ClimateWire is ready



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The devastating earthquake and tsunami in Japan has spawned a major nuclear disaster. E&E examines the implications for energy, the environment, security and public health. [Click here](#) to go to the report.

CLIMATEWIRE -- MON., MARCH 28, 2011 -- [Read the full edition](#)

1. **WHEAT:** Companies begin a difficult search for a climate-hardy variety

In 2009, Monsanto, the biggest agricultural company in the world, did something that had been unthinkable just five years before. It made a major investment in wheat. This wasn't the company's first foray into developing more advanced wheat cultivars. In the 1990s, it had begun research in developing Roundup Ready wheat to add to its suite of herbicide-resistant crops. But economics reared its ugly head. Acreage in spring wheat had declined dramatically, and Monsanto ended the research in 2004.

TODAY'S STORIES

2. **NUCLEAR:** Technicians continue to struggle with high radiation levels at crippled plant
3. **POLITICS:** Christie suggests he might take N.J. out of regional greenhouse gas control program

BBB/73

4. **FINANCE:** World Bank will give China's provinces a grant for energy efficiency programs
5. **TECHNOLOGY:** Will the car of the future be made from coal ash?
6. **RELIGION:** Climate change is not 'act of God,' survey says
7. **EMISSIONS:** Ships may enter European carbon trading scheme
8. **SOLAR:** Home developer offers solar arrays
9. **RENEWABLE FUELS:** E.U. may promote green fuels, restrict higher-polluting energy sources

E&ETV'S ONPOINT

10. **EPA:** Bracewell & Giuliani's Segal says agency overstepping authority with 'Utility MACT' proposal

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Beasley, Benjamin

From: Beasley, Benjamin
Sent: Monday, March 28, 2011 1:29 PM
To: McNamara, Nancy
Subject: FW: Urgent Request from MA SLO re: Site fact sheet for Governor

Nancy,

The items we checked are all correct.

First: Confirmed
Second: Confirmed
Third: Confirmed
Fourth: Confirmed
Fifth:
Sixth: The NRC currently has over ten staff in Japan supporting the U.S. Ambassador and the Japanese government.
Seventh: Confirmed
Eighth:
Ninth:
Tenth:

Regards,
Ben

From: Beasley, Benjamin
Sent: Monday, March 28, 2011 11:39 AM
To: McNamara, Nancy
Subject: RE: Urgent Request from MA SLO re: Site fact sheet for Governor

Nancy,

We are confirming the first few bullets. I am not familiar with the Temporary Instruction on the second page but we can check that as well. The items on EPZ and the long paragraph on a station blackout at Entergy plants is beyond my ability to confirm.

Ben

From: McNamara, Nancy
Sent: Monday, March 28, 2011 10:34 AM
To: Beasley, Benjamin; Schmidt, Wayne
Subject: Urgent Request from MA SLO re: Site fact sheet for Governor
Importance: High

The MA SLO put together the attached fact sheet. He is asking if we could take a quick look at it for errors or anything we want to add

nance

From: Giarrusso, John (CDA) [<mailto:John.Giarrusso@state.ma.us>]
Sent: Monday, March 28, 2011 10:29 AM
To: McNamara, Nancy

BBB/74

Subject: RE: can you send me
Importance: High

Here is what I have done for the governor. Please review and send back as soon as possible. If there is anything you would like to add feel free.
John

John Giarrusso, Jr.
Planning and Preparedness Division Manager
MEMA
508-820-2040 (w)

(b)(6)

From: prvs=0616affd0=nancy.mcnamara@nrc.gov [mailto:prvs=0616affd0=nancy.mcnamara@nrc.gov] **On**
Behalf Of McNamara, Nancy
Sent: Monday, March 28, 2011 10:23 AM
To: Giarrusso, John (CDA)
Subject: can you send me

John, can you send me a quick blurb on what the governor already knows about the Japanese event. We don't want to go into detail w/something he already knows. Attached are slides Bill MAY use. These are draft so please do not share. Tell me if this would be redundant for him based on what he already knows.

Bensi, Michelle

From: Bensi, Michelle
Sent: Monday, March 28, 2011 4:16 PM
To: Kammerer, Annie
Subject: RE: status of documents

Hi Annie,

I know you are back to your normal job responsibilities, but...
If you have a chance, would you please send me the seismic Q&A document with changes accepted/rejected so that I can begin the next phase of revisions? Or, is that what you are doing on paper? If so, how should I get the hardcopy from you? Are you in the office this week?

Also...

Are there any changes you would like me to make to the Diablo, SONGS, or public FAQ docs based on the revision I sent on Friday?

if I hear back from you...

I will be able to work on things most of the day tomorrow.

Btw... did you have a nice weekend? I hope you didn't have to work TOO hard!

Thanks,
Shelby

From: Bensi, Michelle
Sent: Monday, March 28, 2011 2:44 PM
To: Kammerer, Annie
Subject: RE: status of documents

I have attached an idea for the outline for the revised document. Let me know your thoughts.
Do you object to any of the additions I made based on recent emails? If not, I can go ahead and start working with the electronic document.

Thanks,
Shelby

From: Kammerer, Annie
Sent: Monday, March 28, 2011 1:46 PM
To: Bensi, Michelle
Subject: RE: status of documents

I'm doing hand edits and can provide you those as well.

Dr. Annie Kammerer, P.E.
US NRC/RES/DE
(301) 251-7695 Office

(b)(6)

From: Bensi, Michelle
Sent: Monday, March 28, 2011 9:49 AM

To: Kammerer, Annie
Subject: status of documents

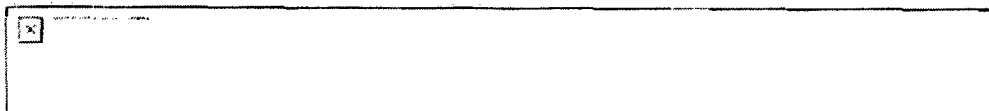
Hi Annie,

Please let me know the status of the documents I have sent you.

I can now begin work on the rearranging/editing/etc. of the large seismic Q&A document. However, I am not sure if you have a recent version that you've gone through and if you've made changes to it. For now, I will work on paper, but it would be more efficient if I can work electronically. However, I don't want to have multiple version of the document floating around.

Thanks,
Shelby

From: E&E Publishing, LLC <ealerts@eenews.net>
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CLIMATEWIRE -- TUE., MARCH 29, 2011 -- [Read the full edition](#)

1. **WHEAT:** Where will 'amber waves of grain' grow in a climate-changed world?

Giving new meaning to toasted wheat, a team of agricultural researchers has spent the past three years and almost a million dollars installing electric heaters over wheat fields in the desert of Maricopa, Ariz. Called the "Hot Serial Cereal" project, the experiment is not a move to tempt breakfast-eaters in the morning, but rather to simulate a temperature rise of 2 to 6 degrees Fahrenheit -- the predicted global average increase for the next 50 years.

TODAY'S STORIES

2. **CANADA:** Looming election puts climate policies in a 'holding pattern'
3. **NUCLEAR:** Leakage of radioactive water slows Fukushima recovery efforts
4. **FINANCE:** China continues to lead U.S. in clean energy investment

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5. **RENEWABLE ENERGY:** Artificial 'leaf' could provide easy, mobile energy
6. **ENERGY EFFICIENCY:** 60 percent of U.S. homes use some energy-efficient light bulbs -- study
7. **JAPAN:** Tokyo braces for a 20% gap between electricity supply and demand
8. **GREEN BUILDING:** Sydney's 'Central Park' will boast efficient buildings
9. **CHINA:** New targets to control carbon emissions based on GDP growth
10. **RENEWABLE ENERGY:** U.K. factory to be powered by municipal waste

E&ETV'S ONPOINT

11. **ENERGY POLICY:** Lawmakers, analysts discuss challenges to crafting and passing a CES

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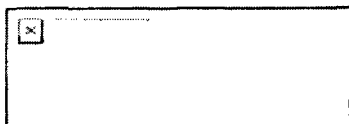
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CLIMATEWIRE -- WED , MARCH 30, 2011 -- [Read the full edition](#)

1. **POLITICS:** Obama to focus on clean energy, daring Republicans to call it 'froufrou'

The White House is collecting options for a clean energy standard from outside groups, sharpening the president's effort to make low-carbon electricity a key piece of his re-election campaign, if not a passable piece of legislation in the current Congress. The meetings have solicited input on some of the thorniest elements of President Obama's goal to impose national fuel requirements on electricity providers. Top among them is the policy's potential impact on different regions, some of which have fewer energy resources like wind or nuclear to comply with a national standard.

TODAY'S STORIES

2. **FINANCE:** World Bank plans to ban future loans to more than 80 nations for coal-fired power plants
3. **TRANSPORTATION:** European Commission proposes to push gasoline-

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and diesel-powered cars out of cities by 2050

4. **SCIENCE:** Huge chunk of the Amazon affected by 'once-in-100-year drought'
5. **POLITICS:** EPA votes in Senate tomorrow expected to 'get rid' of issue one way or another – Reid
6. **REGULATION:** NRC outlines its post-Fukushima scrutiny of U.S. nuclear power plants
7. **NUCLEAR:** Workers perform a dangerous balancing act at Fukushima Daiichi
8. **EMISSIONS:** Study finds curbing auto pollution in developing countries could have short-term climate impact
9. **MARKETS:** N.J. chases Calif. in race to develop solar energy
10. **NUCLEAR:** China may cut back plans for atomic power
11. **CITIES:** Urban areas are causing 70 percent of world's GHG emissions, says U.N.
12. **PUBLIC HEALTH:** Warmer climate changing Alaskan villages
13. **STATES:** S.C. joins in on light bulb debate

E&ETV'S ONPOINT

14. **ENERGY POLICY:** Pew's Cuttino discusses new research on G-20 clean energy investments
-

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Bano, Mahmooda

From: Kondo, Richard [Richard.Kondo@crbard.com]
Sent: Tuesday, March 29, 2011 10:53 AM
To: Smith, Brooke; j3temp@jso.mod.go.jp
Cc: Scott, Michael; Casto, Chuck
Subject: RE: 11:00 TEPCO Mtg

Hi Brooke,

Thanks for making this arrangement. Going forward, I expect to be at future technical meetings at TEPCO.

Look forward to working with you and the NRC team.

Best regards,
CDR Rich Kondo

Richard Kondo
Assoc. Director Business Development
480 303 2757 (O)
480 449 2569 (F)
richard.kondo@crbard.com

1415 West 3rd Street, Suite 109
Tempe, AZ 85281

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

From: Smith, Brooke [<mailto:Brooke.Smith@nrc.gov>]
Sent: Monday, March 28, 2011 6:30 PM
To: Kondo, Richard; 'j3temp@jso.mod.go.jp'
Cc: Scott, Michael; Casto, Chuck
Subject: 11:00 TEPCO Mtg

Commander Kondo,

We have informed both NISA and TEPCO that you will be at the 11:00 meeting.

Best regards,

Brooke Smith

Sent from an NRC Blackberry.
Brooke G. Smith

(b)(6)

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recipient, please contact the sender by reply e-mail and destroy all copies of the original message and any attachments..[v1.0]

Ibarra, Jose

From: Coyne, Kevin
Sent: Wednesday, March 30, 2011 11:42 AM
To: Ibarra, Jose
Subject: Re: Urgent FOIA Request on Japanese Event

Jose-

I have no material that meets the criteria of the ap foia request.

Kevin

Sent from an NRC Blackberry
Kevin Coyne

(b)(6)

From: Ibarra, Jose
To: RES_DRA
Sent: Wed Mar 30 10:54:10 2011
Subject: FW: Urgent FOIA Request on Japanese Event

DRA.

I requested internal communication information last week to respond to an Urgent FOIA. This information was due yesterday but you still have time if you have input. I will be sending the input I received this afternoon before I go home. Keep in mind that this only applies to technical communication and only internal communication. So clerical and adm information does not apply. Additionally, only the author of the information is required. If you are a recipient of the information, I do not want your information. Thanks. Jose

From: Ibarra, Jose
Sent: Wednesday, March 23, 2011 12:49 PM
To: RES_DRA
Subject: Urgent FOIA Request on Japanese Event

DRA Staff,

We have been tasked with a FOIA Request from the Associated Press (AP) regarding internal communications within the NRC pertaining to the Japanese nuclear incidents at the Fukushima Dai-ichi, Fukushima Daini, and Onagawa power plants, consequence of the earthquake and tsunami events on March 11, 2011. RES has tried unsuccessfully to postpone the response. Therefore, we still need to respond to the March 29 due date.

As detailed in the letter from AP, *"the communications should include emails, faxes, and written correspondence between the commission's chairman, its four commissioners, their staffs, the public affairs team, and employees of other offices such as the Office of Nuclear Reactor Regulation, the Office of Nuclear Security and Incident Response, and the NRC's 24-hour Operations Center"*. See the attached the Associated Press request. **This request covers a time frame from March 11, 2011 through March 16, 2011, when the request was issued.**

Please provide hard copies of any records that meet the above criteria to Jose Ibarra by COB on Tuesday, March 29th. In addition, please identify those records that may contain information you believe should not be released to the public per the exemption instructions detailed in step 6 of the attached document on *"How to Respond to a FOIA Request"* (e.g., contains sensitive, proprietary, pre-decisional, or personnel information).

The 3/29 due date is to provide sufficient time for screening and redacting information that meet FOIA exemption criteria for withholding, so that we can still meet our office due date of 3/30 for providing the records to the FOIA staff. Use TAC code KC0373 for time spent on this FOIA response.

Please let me know if you have any questions, comments, or concerns related to this request.

Thanks. Jose

Helton, Donald

From: Helton, Donald
Sent: Wednesday, March 30, 2011 1:28 PM
To: Burns, Shawn
Subject: RE: Jeff LaChance

Shawn,

I am not available tomorrow. I will be on a plane returning to DC. Please let Jeff know that we'll take good care of his project while he is gone, and wish him the best in this unique assignment. Please let Katrina know that I will be in the office next week, and she and I can touch base at that point. Please provide her my contact information below (Donald.Helton@nrc.gov; 301 251-7594).

Best,
Don

From: Burns, Shawn [spburns@sandia.gov]
Sent: Wednesday, March 30, 2011 10:45 AM
To: Helton, Donald
Subject: Jeff LaChance

Don,

I wanted to let you know that Jeff LaChance has been called to Tokyo by DOE/NNSA Administrator D'Agostino to help support the Fukushima response. I expect him to be away for 2-4 weeks at this point. This came up yesterday morning and Jeff is already on his way, but before he left we did develop a plan for maintaining support for the Advanced PRA project in his absence.

Most of the technical lift on our side is being handled by Jeff Cardoni and will continue to be so. Dr. Katrina Groth will be handling the overall project management and contract monitoring with the Univ. of MD. Katrina is a graduate of MD and is familiar with their part of the project. Jeff, Katrina and I have a meeting set for 4:00 Washington time tomorrow afternoon to discuss the project. Are you available to join us by phone?

Best regards,

Shawn

Shawn P. Burns, Ph.D., P.E.
Manager, Risk and Reliability Analysis
Department 6761

Sandia National Laboratories
P.O. Box 5800
Albuquerque, NM 87185-0748

Phone: (505)844-6200

(b)(6)

Fax: (505)844-2829

BBB/80

e-mail: spturns@sandia.gov

Web: <http://www.sandia.gov/ERN/nuclear-energy/index.html>

From: Coyne, Kevin
To: Cos. Ryan; Georgia, Richard
Subject: Fw: Summer Internship
Date: Wednesday, March 30, 2011 4:39:05 PM

Rich, Doug -

Just a heads up that Rosie Sugrue (one of the two dra summer interns - the other is in Marks branch) will be here from early june to mid august. Rosie did a great job last summer and will return to mit in august to finish her Masters degree.

Kevin

Sent from an NRC Blackberry
Kevin Coyne

(b)(6)

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

From: Rosemary M Sugrue <rsugrue@MIT.EDU>
To: Coyne, Kevin
Cc: Kuritzky, Alan; Frampton, Julie
Sent: Wed Mar 30 14:14:14 2011
Subject: Re: Summer Internship

Hi, Kevin - I was thinking that I would work all summer through mid-August or so (if that makes sense to you). My advisor wanted me to work part of the summer at ONRL on the CASL initiative but I want to have enough time at the NRC to help with one or more projects. The advantage of ORNL is that they offer a number of graduate fellowships, but I have applied for a few others and my parents recently told me that they will help cover next year's graduate tuition costs. This gives me the freedom to be where I want to be this summer and that's at the NRC.

Needless to say, I'm very excited about coming back and looking forward to seeing everyone again.

Best,

Rosie

Quoting "Coyne, Kevin" <Kevin.Coyne@nrc.gov>:

> Rosie -
>
> Great news! A June 6th start date sounds fine to me. How long will
> you be able stay this summer?
>
> Hope everything else is going well!
>
> Kevin
>
>
> Sent from an NRC Blackberry
> Kevin Coyne

8/81

(b)(6)

> ----- Original Message -----
> From: Rosemary M Sugrue <rsugrue@MIT.EDU>
> To: Coyne, Kevin
> Cc: Lui, Christiana; Coe, Doug
> Sent: Tue Mar 29 00:00:30 2011
> Subject: RE: Summer Internship
>
> Hi, Kevin,
>
> Hope you're doing well - with everything that has been going on at Fukushima,
> classes here have definitely been interesting, and I suspect things at
> the NRC are even more so. I wanted to let you know that I sent an
> email last week
> formally accepting the summer internship and will mail the remaining forms
> tomorrow. Did you have a particular start date in mind? If not, I was
> thinking
> that the first week of June, June 6, would work well since that will give me
> time after exams to find a place in DC and move in.
>
> Needless to say, I'm really looking forward to returning this summer and to
> seeing everyone again!
>
> Thanks so much for giving me the opportunity -
>
> Have a good week.
>
> Best,
>
> Rosie
>
>
> _____
> Rosemary Sugrue
> Massachusetts Institute of Technology | Class of 2011
> Course 22 Department of Nuclear Science and Engineering
>

Rosemary Sugrue
Massachusetts Institute of Technology | Class of 2011
Course 22 Department of Nuclear Science and Engineering

From: E&E Publishing, LLC <ealerts@eenews.net>
Sent: Thursday, March 31, 2011 8:12 AM
To: Virgilio, Martin
Subject: Codes Enclosed -- March 31 -- ClimateWire is ready



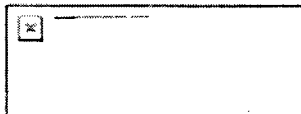
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The devastating earthquake and tsunami in Japan has spawned a major nuclear disaster. E&E examines the implications for energy, the environment, security and public health. [Click here](#) to go to the report.

CLIMATEWIRE -- THU., MARCH 31, 2011 -- [Read the full edition](#)

1. NUCLEAR: U.S. response to Japan's crisis should be a new spent fuel strategy, Senate panel is told

The nuclear crisis in Japan provides an impetus for Congress to confront a failed national policy on dealing with spent fuel from U.S. reactors, witnesses told a Senate subcommittee yesterday. Massachusetts Institute of Technology professor Ernest Moniz called for an accelerated transfer of spent nuclear fuel rods from storage in water-covered pools at reactor sites to concrete and steel "dry" casks. Two other witnesses before the subcommittee, representing the nuclear industry and one of its frequent critics, differed on the implications of the reactor crisis on the safety of spent reactor fuel stored at the 104 U.S. nuclear power plants. But both agreed it was time to confront the stated issues surrounding the spent fuel.

2. POLITICS: Obama, steering for the center, draws dissent from both sides

President Obama is trying to find the political center of the nation's energy issues. His speech yesterday, in steering the nation back to the domestic economy, appeals to a

Handwritten: 82

broad section of political — and geographic — positions. He stood fast by nuclear power, promised swifter access for oil companies and prioritized climate change. Yet he got little credit from either side.

TODAY'S STORIES

3. **AUSTRALIA:** China and Australia in climate dialogue as coal exporters gear up
4. **SCIENCE:** Navy plans to rebuild waning Arctic research programs
5. **MARKETS:** Traders expect Calif. cap-and-trade system to start on schedule
6. **FORESTS:** Study finds Russia's vast boreal forests changing, adding fuel to climate change
7. **FOOD SECURITY:** East Africa's drought drives up food aid needs by 25%
8. **RENEWABLE ENERGY:** Wave farm on Calif. coast allowed for feasibility study
9. **TRANSPORTATION:** Jet plane contrails may be more damaging than CO2 emissions — study
10. **ELECTRIC CARS:** Wash. may tax electric vehicles
11. **SMART METERS:** Detroit's metering program to bring in more accurate, efficient devices

E&ETV'S ONPOINT

12. **CLEAN ENERGY:** National Hydropower Association's Munro discusses Senate action on hydro

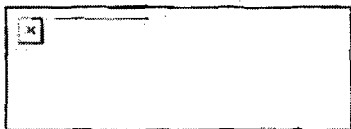
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Greenwood, Carol

From: Gibson, Kathy
Sent: Thursday, March 31, 2011 2:39 PM
To: (b)(6)
Subject: Re: FW: John Boice- CNN: Japan Reactor Accident - Radiation Risks in Perspective

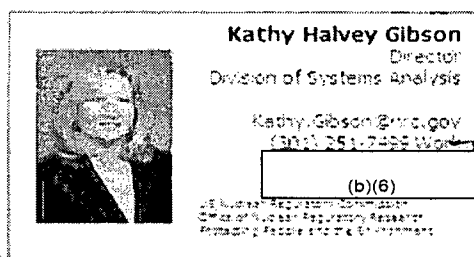
Yippee you're using your email! :-D

From: John halvey (b)(6)
To: Gibson, Kathy
Sent: Thu Mar 31 14:29:12 2011
Subject: Re: FW: John Boice- CNN: Japan Reactor Accident - Radiation Risks in Perspective

Dear Kathy: I received your e-mail about the Japanese reactor accident. Very interesting. Thanks. LOVE YA! DAD.

On Thu, Mar 24, 2011 at 6:06 PM, Gibson, Kathy <Kathy.Gibson@nrc.gov> wrote:

For anyone interested – from an independent source.



From: Brock, Terry
Sent: Thursday, March 24, 2011 1:37 PM
To: Gibson, Kathy
Subject: John Boice- CNN: Japan Reactor Accident - Radiation Risks in Perspective

Excellent John Boice interview below on Japanese current events. Hat-tip to Vered on finding this.

Terry

CNN Video Link:
<http://www.cnn.com/video/data/2.0/video/world/2011/03/23/sotu.boice.0320.cnn.cnn.html>

BBB/83

From: Paul [REDACTED] (b)(6)
Sent: Thursday, March 31, 2011 2:10 PM
To: Gilson Marilyn, Lil Jannone; Len Lapenson
Subject: Fwd: U.S. Dropped Nuclear Rule Meant to Avert Hydrogen Explosions

Paul Blanch

[REDACTED]
(b)(6)

Begin forwarded message:

From: Paul [REDACTED] (b)(6)
Date: March 31, 2011 13:57:05 EDT
To: Lou Joly [REDACTED] (b)(6)
Subject: Fwd: U.S. Dropped Nuclear Rule Meant to Avert Hydrogen Explosions

Paul Blanch

[REDACTED]
(b)(6)

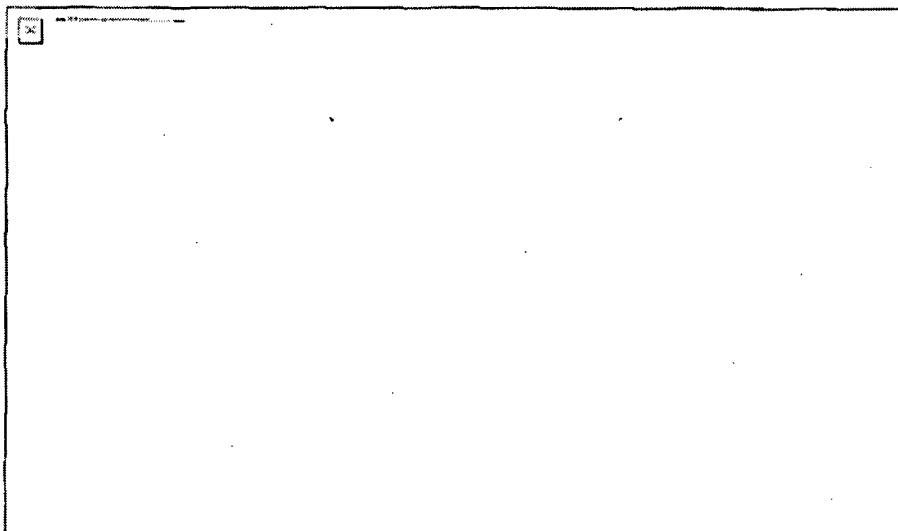
Begin forwarded message:

From: Paul [REDACTED] (b)(6)
Date: March 31, 2011 13:49:33 EDT
Subject: U.S. Dropped Nuclear Rule Meant to Avert Hydrogen Explosions

U.S. Dropped Nuclear Rule Meant to Avert Hydrogen Explosions

By MATTHEW L. WALD

EEB/84



Associated Press The Three Mile Island nuclear plant in Pennsylvania on Monday, 32 years to the day after an accident there. When hot fuel interacted with steam there, a reactor suffered a hydrogen blast.



The Nuclear Regulatory Commission has allowed reactors to phase out some equipment that eliminates explosive hydrogen, the gas that blew up the outer containments of three reactors at the Fukushima Daiichi in Japan. The commission says it judged that at the American plants, the containments were strong enough that the equipment was not needed or other methods would do.

After the Three Mile Island accident in 1979, many reactors were required to install "hydrogen recombiners," which attach potentially explosive hydrogen atoms to oxygen to make water instead. At Three Mile Island, engineers learned that hot fuel could interact with steam to give off hydrogen. That caused the plant's reactor to suffer a hydrogen explosion, although it did not seriously damage its containment. By contrast, the secondary containments at Fukushima Daiichi blew apart when hydrogen detonated inside them.

The change in commission policy was pointed out this week by a nuclear safety critic, Paul M. Blanch, who said that he had been involved in installing such equipment at Millstone 3, a nuclear reactor in Waterford, Conn.

"Post-Three Mile Island, they were considered very important to safety," Mr. Blanch said. He accused the Nuclear Regulatory Commission of having "gutted the rule" because the industry wanted to save money.

But Eliot Brenner, a spokesman for the commission, said that as the commission analyzed its rules to determine which ones actually improved safety and which did

not, it had found the equipment was unnecessary.

More than half the American reactors have applied to drop the hydrogen recombiners from their technical specifications, but many of those plants still keep them operable nonetheless, according to the commission.

Commission officials said they have allowed reactors to rely on simpler, easier-to-maintain equipment instead of the recombiners.

Indian Point 2 and 3, in Buchanan, N.Y., and Millstone 2 and 3 in Waterford, Conn., are among the reactors that were allowed to delete hydrogen recombiners from their formal "technical specifications," the government list of equipment that must be inspected, tested and maintained within certain limits for the reactor to be allowed to operate.

But James F. Steets, a spokesman for Indian Point, said that Units 2 and 3 there each had two recombiners and that one alone could eliminate all the hydrogen in a major accident.

Millstone 2 and 3, near New London, are in the same category; the equipment should still be operable, but having it in working order is no longer a condition required by the license, said Kenneth A. Holt, a spokesman for Dominion, which owns the reactors now.

The Nuclear Regulatory Commission said that it changed the rules in 2003 as part of an "ongoing effort to risk-inform its regulations," meaning adjust its rules to reflect actual risk to reactors. At issue were "design basis accidents" and "severe" accidents, which are worse.

"They weren't needed for design basis accidents and they didn't help with severe accidents," Mr. Brenner said.

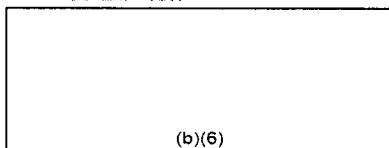
Depending on the type of reactor, the commission now requires a variety of other precautions. General Electric models of the type used at Fukushima, which are also common in the United States, must pump their primary containments full of nitrogen gas instead of air, for example.

Because hydrogen requires that oxygen be in the air to detonate, this "inerting" of the primary containments is a way of preventing explosions. And some plants have to have "igniter systems" that would burn off hydrogen before it could build up.

The recombiners and a great deal of other equipment and safety procedures will be re-examined as part of a 90-day review that the commission is conducting after the

Fukushima accident, Mr. Brenner said.

Paul Blanch



(b)(6)

Fleger, Stephen

From: Harvey Leake@aps.com
Sent: Thursday, March 31, 2011 10:05 AM
To: Aggarwal, Satish; gballass@gdeb.com; am@nei.org; channas@westinghouse.com; d.t.goodney@ieee.org; dah@adventengineering.com; dennis.dellinger@ametek.com; dfb4@pge.com; djzaprazny@ppiweb.com; dlgladey@ppiweb.com; Dirk.hopp@areva.com; (b)(6); george.attarian@pgnmail.com; geschinzel@stpegs.com; h.c.leake@ieee.org; hammond@westinghouse.com; Ijaz.ahmad@luminant.com; j.d.macdonald@ieee.org; j.e.stoner@ieee.org; j.p.carter@ieee.org; jim.gleason@glseq.com; jthomas@mpr.com; jliming@absconsulting.com; John.Disosway@dom.com; Julius.Persensky@nl.gov; keith.bush@shawgrp.com; malcolms@aecl.ca; mark.f.santschi@sargentlundy.com; masafumi_utsumi@mhi.co.jp; mdbowman@ieee.org; Mansoor.h.sanwarwalla@sargentlundy.com; Michael.H.Miller@sargentlundy.com; Waterman, Michael; nmb@ieee.org; Nissen.Burstein@areva.com; parellj@westinghouse.com; pjohnc@entergy.com; r.c.carruth@ieee.org; r.j.fletcher@ieee.org; (b)(6); robert.francis@wyle.com; Beacom, Royce; sa@ieee.org; Fleger, Stephen; tengler@stevenson.cz; (b)(6); Koshy, Thomas; Koshy, Thomas; YanosyPL@westinghouse.com
Cc: Mohammad.Karbassian@aps.com; Mark.VanDop@aps.com; Aloysius.Wrapell@aps.com; Charles.Karlson@aps.com; Mark.Hypse@aps.com; Robert.Doyle@aps.com; Michael.Powell@aps.com; Neil.Thibodaux@aps.com; Lorraine.Weaver@aps.com
Subject: RE: URGENT: Request Input for a REBUTTAL

Satish,

- The author seems to be confusing station blackout coping time with battery capacity. It is not relevant to compare risk solely in terms of battery capacity and ignore design advantages associated with options for restoration of AC power, which would also include restoration of the battery chargers. These design advantages could include access to alternate AC supplies and diversity of offsite and onsite power sources.
- Batteries aren't rated in hours. The length of time they can perform a useful function is dependent on the load profile, as well as their size. If they are just providing instrumentation, as some of the redundant channels do, they can usually last quite a while. If they are used to operate valves, the number of valve operations is a significant factor in depletion time. Operators usually have options for reducing the loading and extending the operating time, such as manual valve operation and shedding of unnecessary DC loads.
- The article acknowledges that the batteries don't run cooling pumps. Is the author suggesting that there is a significant safety advantage in having DC even without forced cooling? It seems like, in the absence of AC power, the effects of the loss of forced cooling and the ability for operators to mitigate the condition would be about the same regardless of whether a battery was depleted or not.
- The article fails to acknowledge the significant differences in nuclear plant designs, such as BWR versus PWR and old versus new designs. Installing larger batteries across the board does not make sense without an understanding of the advantages for the particular plant. That would involve postulating specific scenarios and showing how the extended battery life would be necessary to mitigate the condition.

Harvey Leake
Palo Verde Nuclear Generating Station
623-393-6986

From: Aggarwal, Satish [mailto:Satish.Aggarwal@nrc.gov]

Sent: Thursday, March 31, 2011 5:36 AM

To: 'George Ballassi'; am@nei.org; channas@westinghouse.com; d.t.goodney@ieee.org; dah@adventengineering.com; dennis.dellinger@ametek.com; dfb4@pge.com; djzaprazny@ppiweb.com; dlgladey@ppiweb.com; Dirk.hopp@areva.com; (b)(6); george.attarian@pgnmail.com; geschinzel@stpegs.com; h.c.leake@ieee.org; hammond@westinghouse.com; Ijaz.ahmad@luminant.com; j.d.macdonald@ieee.org; j.e.stoner@ieee.org; j.p.carter@ieee.org; jim.gleason@glseq.com; jthomas@mpr.com; jliming@absconsulting.com; John.Disosway@dom.com;

Julius.Persensky@inf.gov; keith.bush@shawgrp.com; malcolms@aecl.ca; mark.f.santschi@sargentlundy.com;
masafumi_utsunomiya@mhi.co.jp; mdbowman@ieee.org; Mansoor.h.sanwarwalla@sargentlundy.com;
Michael.H.Miller@sargentlundy.com; Waterman, Michael; nmb@ieee.org; Nissen.Burstein@areva.com;
parellj@westinghouse.com; pjohnso@entergy.com; r.c.carruth@ieee.org; r.j.fletcher@ieee.org; (b)(6)
robert.francis@wyle.com; Beacom, Royce; sa@ieee.org; Flegler, Stephen; tengler@stevenson.cz;

(b)(6)

Koshy, Thomas; Koshy, Thomas; YanosyPL@westinghouse.com

Subject: RE: URGENT: Request Input for a REBUTTAL

To all:

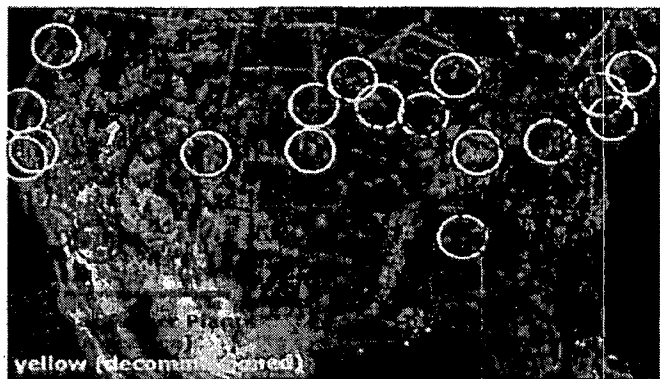
I plan to issue a "Press Release" on the following topic. I request your input as soon as possible.

sa
Chair, IEEE Nuclear Power Engineering Committee

U.S. reactors have weaker back-up batteries than Fukushima Daiichi had

Published 31 March 2011

Almost all American nuclear power plants have backup batteries that would last only half as long as those at Japan's troubled Fukushima Daiichi plant did after a tsunami knocked out power there; just eleven of the U.S. 104 plants had eight-hour batteries, and 93 had four-hour batteries; the batteries are not powerful enough to run pumps that direct cooling water, but they can operate valves and can power instruments that give readings of water levels, flow and temperatures



U.S. reactors, all with underpowered batteries // Source: modernsurvivalblog.com

Almost all American nuclear power plants have backup batteries that would last only half as long as those at Japan's troubled Fukushima Daiichi plant did after a tsunami knocked out power there, an expert testified Tuesday at a Senate committee briefing on nuclear safety.

An industry official, addressing the Senate Energy and Natural Resources Committee, conceded that battery life was "one of the obvious places" that nuclear operators would examine for potential improvements. The *New York Times* reports that David Lochbaum, a nuclear expert at the Union of Concerned Scientists, which generally takes a critical tone toward nuclear reactors, said that just eleven of the nation's 104 plants had eight-hour batteries, and 93 had four-hour batteries. The batteries are not powerful enough to run pumps that

direct cooling water, but they can operate valves and can power instruments that give readings of water levels, flow and temperatures.

After the 11 March tsunami disabled the local electricity grid at the Fukushima Daiichi plant and the plant's emergency diesel generators, the failure of the batteries deprived the plant's operators of those crucial measurements.

Addressing the committee with Lochbaum was Anthony R. Pietrangelo, senior vice president and chief nuclear officer of the Nuclear Energy Institute (NEI), the industry trade association. "To get to 48 hours, or 72 hours, pick a number," he said of the backup batteries. "We're going to have to take a hard look and see what resources would be required."

The *Times* notes that after the committee briefing, Pietrangelo said that one alternative to adding long-lasting batteries could be having portable diesel generators available for quick dispatch to a reactor. Some equipment intended to cope with a severe accident or terrorist attack is already centrally stockpiled, he said.

Separately, Representative Edward J. Markey (D-Massachusetts), said Tuesday that he would introduce legislation to require that American plants acquire 72-hour batteries along with fourteen days of fuel for the backup diesel generators.

Fukushima reportedly had seven days of diesel fuel, but the tanks were washed away by the tsunami; most American plants bury their tanks for safety, according to industry officials.

The bill would also impose a moratorium on license renewals and on new plant licenses.

Another expert who spoke before the Senate committee, William Borchardt, the chief staff official of the Nuclear Regulatory Commission (NRC), said that the Fukushima crisis would have no impact on the commission's granting of new licenses or license extensions.

If Japan's experience shows that changes in reactors are needed here, he said, those will be ordered immediately, regardless of the status of the plant's license, license extension or license application.

Another American practice that appears likely to be re-evaluated in view of Japan's crisis is filling pools with spent fuel to the maximum extent possible. Markey and others called for reducing the risk by moving some fuel to dry casks, something that is done now only when the pool is at capacity.

From: George Ballassi [mailto:gballass@gdeb.com]

Sent: Monday, March 21, 2011 9:20 AM

To: am@nei.org; channas@westinghouse.com; d.t.goodney@ieee.org; dah@adventengineering.com; dennis.dellinger@ametek.com; dfb4@pge.com; djzaprazny@pplweb.com; dlgladey@pplweb.com; Dirk.hopp@areva.com; (b)(6) gballass@gdeb.com; george.attarian@pgnmail.com; geschinzel@stpegs.com; h.c.leake@ieee.org; hammond@westinghouse.com; Ijaz.ahmad@luminant.com; j.d.macdonald@ieee.org; j.e.stoner@ieee.org; j.p.carter@ieee.org; jim.gleason@glseq.com; jthomas@mpr.com; jliming@absconsulting.com; John.Disosway@dom.com; Julius.Persensky@inl.gov; keith.bush@shawgrp.com; malcolms@aecl.ca; mark.f.santschi@sargentlundy.com; masafumi_utsumi@mhi.co.jp; mdbowman@ieee.org; Mansoor.h.sanwarwalla@sargentlundy.com; Michael.H.Miller@sargentlundy.com; Waterman, Michael; nmb@ieee.org; Nissen.Burstein@areva.com; parellj@westinghouse.com; pjohno@entergy.com; r.c.carruth@ieee.org; r.j.fletcher@ieee.org; (b)(6) robert.francis@wyle.com; Beacom, Royce; sa@ieee.org; Aggarwal, Satish; Fleger, Stephen; tengler@stevenson.cz; (b)(6) Koshy, Thomas; Koshy, Thomas; YanosyPL@westinghouse.com

Subject: Fw: Public Visibility Update -- Japan Quake-related Media Activity <<Not-Sensitive>>

Dear NPEC Members,

Please see the request below.

best regards,

George

P.S. Has anyone heard from Mafasumi??

George A. Ballassi, Principal Eng

Electric Boat Corp, Groton, CT

(860) 433-3389

gballass@ebmail.gdeb.com

----- Forwarded by George Ballassi/EB/GDYN on 03/21/2011 09:18 AM -----

From: "Aggarwal, Satish" <Satish.Aggarwal@nrc.gov>
To: "j.d.macdonald@ieee.org" <j.d.macdonald@ieee.org>, George Ballassi <gballass@gdeb.com>, "parelji@westinghouse.com" <parelji@westinghouse.com>
Date: 03/21/2011 09:14 AM
Subject: FW: Public Visibility Update -- Japan Quake-related Media Activity

All:

George:

Please pass this e-mail to all NPEC members,

Please see email below re request for technical experts. If you and others in NPEC are willing to be involved, please contact me.

Thanks

sa

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

From: P.Ryan@ieee.org [mailto:P.Ryan@ieee.org]
Sent: Sunday, March 20, 2011 11:05 PM
To: Rotz, Alan C
Subject: Fw: Public Visibility Update -- Japan Quake-related Media Activity

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

From: Mary Ward-Callan
Sent: 03/19/2011 10:30 PM EDT
To: Patrick Ryan
Subject: Fw: Public Visibility Update -- Japan Quake-related Media Activity Do you have anything in your volunteer ranks that is happening or people who are well positioned to help the efforts noted below?
mary

Mary Ward-Callan, CAE
Managing Director - Technical Activities IEEE
445 Hoes Lane
Piscataway, NJ 08855 USA
Phone: +1 732.562.3850
Fax: +1 732.981.1769
Cell: (b)(6)
Email: m.ward-callan@ieee.org
IEEE. Advancing Technology for Humanity
Join an IEEE Society Today!

----- Forwarded by Mary Ward-Callan/TAD/STAFF/US/IEEE on 03/19/2011 10:29 PM -----

From: Gailanne Barth/MKSALES/STAFF/US/IEEE

To: Moshe Kam <m.kam@ieee.org>, Chuck Adams/STDS/STAFF/US/IEEE@IEEE, Patrick Mahoney/MKSALES/STAFF/US/IEEE@IEEE, James Prendergast/EXEC/STAFF/US/IEEE@IEEE, Matt Loeb/EXEC/STAFF/US/IEEE@IEEE, Judith Gorman/STDS/STAFF/US/IEEE, Mary Ward-Callan/TAD/STAFF/US/IEEE@IEEE, Alexander J Pasik/IT/STAFF/US/IEEE@IEEE, Cecelia Jankowski/MGA/STAFF/US/IEEE@IEEE, g.barth@ieee.org (Gailanne Barth)

Date: 03/17/2011 07:53 AM

Subject: Public Visibility Update -- Japan Quake-related Media Activity

Greetings,

The Public Visibility/Weber Shandwick PR Team has been pitching stories, story angles and identifying technical experts for media interviews on Japan quake/tsunami-related issues across the 7 countries targeted by the Public Visibility Initiative. The following recap provides early highlights of activity to date.

Story Angles & Media Pitches

Our initial focus is on the immediate events surrounding the nuclear plants and the potential radiation risks, as that is where the news cycle is at this point. We are also pitching a number of related stories and story angles including, but not limited to:
-- Robotics including robot-assisted search and rescue (working with technical experts from Robotics & Automation Society)

- Quantifying the effect of radiation exposure on a human being
- Remote sensing technologies and their role in measuring oceanic activity
- Sustainable energy and alternative energy sources

We are pursuing these and other story angles; working with IEEE technical experts from IEEE Societies, Region and local experts, as well as IEEE volunteers who are serving us in advisory roles on this matter.

Need your help....

The media is especially interested at this point in speaking with technical experts who can speak plainly to the complex issues surrounding nuclear matters. We are pursuing technical expert explanations, mini-tutorials as well as by-line articles on nuclear issues in Japan. If you know of particular experts on this and the other topics previously mentioned, please let us know. We have also tapped into the Public Visibility Technical Experts Database.

Highlights of Media Activity by Country

U.S

- We completed a media interview with leading energy site EnergyCentral and Jim Fancher, retired Commonwealth Edison nuclear plant expert, and IEEE Life Senior Member and IEEE-USA Energy Policy Committee member. The article is expected to run Friday.
- We are pitching stories and technical experts to the Chicago Tribune which has expressed interest, as Illinois has one of the highest concentration of nuclear plants in the country. The editor has expressed interest in Jim Fancher as he lives in Naperville, Illinois and has worked at nuclear plants in the vicinity.
- The NY Times Japan approached us with a number of in-depth questions on nuclear. We are looking for an IEEE nuclear expert with indepth expertise and have approached a number of IEEE technical experts, among them IEEE Senior Member, Leonard Bond. We have a quick-turnaround on this. We have also been working with Hal Flescher, as well as the Nuclear & Plasma Sciences Society on a number of nuclear-related issues/story angles.
- Robin Murphy, IEEE Fellow and director of the Center for Robot-Assisted Search and Rescue (CRASAR) at Texas A&M University, is heavily quoted in Discovery News article: "Japan Earthquake: Robots Help Search for Survivors"
<http://news.discovery.com/tech/japan-earthquake-robots-help-search-for-survivors-110314.html>
- CNNMoney.com has expressed interest in interviewing technical experts on several topics. We will know specifics today when the editors come back with their specific assignments.
- We are working with Bloomberg Industrials reporter Rachel Layne on several possible story angles this news outlet is pursuing.
- We have also started broader pitching to energy trade publications, most of which we expect will be longer-lead cycles by the very nature of such publications.
- Multiple other media pitches in progress here.

Japan

- A number of challenges have hampered our media efforts here, among them the rolling blackouts that are impeding the WS Japan PR team which has been trying to work from home but somewhat crippled. The WS Asia Team is supporting and providing back-up to the Japan Team as we work possible stories in Japan.
- Additionally, Japan technical experts are reluctant to comment. WS sources have heard that the Government has instructed its experts not to comment.
- We are, however, pursuing a number of story angles and technical experts here, and expect to have more to report by end of week.

UK

- We are taking a similar approach in the UK as the US, as the current news cycle is similarly focused on the immediate events surrounding the nuclear plants and potential radiation risks. The PR Team UK is pitching a number of media channels in the UK. We should have more to report by end of week.
- The UK team is also pitching UK robotics expert and IEEE member Antonio Espingardeiro to tell the robotics story.

India

-- The story taking center stage in India is the announcement this past Tuesday by India's Prime Minister ordering a safety review of all its nuclear plants to ensure they withstand "large natural disasters" like tsunamis and earthquakes. The Department of Atomic Energy and its agencies, including the Nuclear Power Corporation of India, are spearheading this. We are looking for local technical experts in India who understand the nuclear landscape in India, and who can specifically speak to what will be involved and what can be expected.

-- We are also pursuing the sustainable energy front and have engaged IEEE Senior Member and Secretary of the IEEE Delhi Section, Damon Sood, who is particularly strong in a number of alternative energy topics.

China

-- China government will not allow us to comment on the issue in their media.

Additionally, it will be difficult for IEEE technical experts to discuss this topic as this is a sensitive time for China as nuclear technology is closely controlled by the government, and without proper authority, local experts generally will not comment on such issues.

-- Nonetheless, we are instead pursuing other topics where Public Visibility has been especially successful in the past; namely several alternative energy story angles, and have a number of pitches in progress.

-- No results to report as yet.

South Korea

-- Extremely sensitive at this stage. PR Team is feeling out the media landscape and sensitivities.

-- Several storylines in progress. No results to report.

Brazil

-- We are not focusing on the nuclear story here given there is no nuclear industry and thus low interest. We are instead focusing on the renewed interest here in the renewable energy industry and pursuing these stories with the media.

-- We are working with Cyro Boccuzzi, IEEE Senior Member and technical expert for energy based in Sao Paulo, in addition to several other technical experts from our database.

Collaboration with Spectrum

-- As mentioned in an email on Tuesday, the Public Visibility/Weber Shandwick PR Team is working closely with IEEE Spectrum Team on stories, story angles and identifying technical experts on Japan Quake-related issues, and have shared a number of technical experts and stories to date.

Refer to email of 3/15/11 for details.

Contact Us

Please contact me or members of the Public Visibility Committee with any leads, perspectives or insights on these and related issues.

We will continue to provide you with periodic updates of media activity on this issue.

Regards,

Gailanne

Gailanne Barth

Director Marketing Communications

IEEE

445 Hoes Lane

Piscataway, NJ 08854 USA

Voice: +1 732 562 5315

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Stutzke, Martin

From: Stutzke, Martin
Sent: Thursday, March 31, 2011 3:59 PM
To: Cabbage, Amy; Chokshi, Niles; Kammerer, Annie
Cc: Davidson, Cynthia
Subject: RE: Scheduleing of Japan task Force briefing on seismic issues

One more thought – GI-199 has been transitioned to NRR/DE (Kamal Manoly), who is developing a generic letter. You might want to invite him.

Marty

From: Cabbage, Amy
Sent: Thursday, March 31, 2011 3:56 PM
To: Stutzke, Martin; Chokshi, Niles; Kammerer, Annie
Cc: Davidson, Cynthia
Subject: RE: Scheduleing of Japan task Force briefing on seismic issues

Thanks Marty – No need to prepare any new material. Presentation material already available will be fine to facilitate the discussions. There is computer and projector in the room. If you email me your slides before the meeting I can display in the room and I can have copies made here.

Annie – Cliff requested that I add you to the appointment as well. I hope you can make it.

Cynthia – please note added attendees (Martin Stutzke, Niles Chokshi and Annie Kammerer)

Thanks,
Amy

From: Stutzke, Martin
Sent: Thursday, March 31, 2011 3:51 PM
To: Chokshi, Niles; Cabbage, Amy
Cc: Davidson, Cynthia
Subject: RE: Scheduleing of Japan task Force briefing on seismic issues

I'll be there. We have made a number of briefing on GI-199; should I prepare some viewgraphs?

Marty

From: Chokshi, Niles
Sent: Thursday, March 31, 2011 3:44 PM
To: Cabbage, Amy; Stutzke, Martin
Cc: Davidson, Cynthia
Subject: Re: Scheduleing of Japan task Force briefing on seismic issues

Thanks, Amy. I will be there

Sent from NRC Blackberry
Niles

(b)(6)

From: Cabbage, Amy
To: Stutzke, Martin; Chokshi, Niles
Cc: Davidson, Cynthia
Sent: Thu Mar 31 15:36:25 2011
Subject: FW: Scheduleing of Japan task Force briefing on seismic issues

Niles – FYI – I will send you the scheduler when the meeting time is confirmed.

Marty – see below. Would you be available next week to attend/support ?

From: Cabbage, Amy
Sent: Thursday, March 31, 2011 12:48 PM
To: Davidson, Cynthia
Cc: Sanfilippo, Nathan; Ake, Jon; Munson, Clifford
Subject: Scheduleing of staff breifing

Cynthia – The team has requested an informational briefing on seismic design basis and the status of GI-199. I spoke to John Ake and Cliff Munson and they can support next week on Wednesday or Thursday. I propose Wed, April 6 from 9 -12 in T6C1. Please coordinate with John and Cliff on their availability and make sure the other task members are available (recognizing that Jack will be on travel).

Thanks,
Amy

Coe, Doug

From: Correia, Richard
Sent: Friday, April 01, 2011 10:12 AM
To: Stutzke, Martin; Coyne, Kevin; Coe, Doug
Cc: Helton, Donald; Appignani, Peter
Subject: RE: Request for Briefing on SFP Study

Thanks Marty. Should I forward this to DSA or do you think they have the same information?

Richard Correia, PE
Director, Division of Risk Analysis
Office of Nuclear Regulatory Research
US NRC

richard.correia@nrc.gov

From: Stutzke, Martin
Sent: Friday, April 01, 2011 10:11 AM
To: Correia, Richard; Coyne, Kevin; Coe, Doug
Cc: Helton, Donald; Appignani, Peter
Subject: RE: Request for Briefing on SFP Study

I've attached the report from the SFP and non-reactor L3 PRA scoping working group for your information, which contains references to previous risk studies.

Marty

From: Correia, Richard
Sent: Friday, April 01, 2011 9:57 AM
To: Coyne, Kevin; Coe, Doug
Cc: Helton, Donald; Appignani, Peter; Stutzke, Martin
Subject: RE: Request for Briefing on SFP Study

Thanks Kevin. I'll add him to the list.

Richard Correia, PE
Director, Division of Risk Analysis
Office of Nuclear Regulatory Research
US NRC

richard.correia@nrc.gov

From: Coyne, Kevin
Sent: Friday, April 01, 2011 9:54 AM
To: Correia, Richard; Coe, Doug
Cc: Helton, Donald; Appignani, Peter; Stutzke, Martin
Subject: RE: Request for Briefing on SFP Study

Rich -

Pondering a bit more and rereading the request from Mike Snodderly, we'd probably also want to see if Marty Stutzke (in addition to Don Helton) could support to speak to the seismic/fire aspects...

BBS/87

Kevin

From: Correia, Richard
Sent: Friday, April 01, 2011 9:51 AM
To: Coyne, Kevin; Coe, Doug
Cc: Helton, Donald; Appignani, Peter
Subject: RE: Request for Briefing on SFP Study

Thanks Kevin. I'll forward Mike Cheek's request to Kathy Gibson et al.

Richard Correia, PE
Director, Division of Risk Analysis
Office of Nuclear Regulatory Research
US NRC

richard.correia@nrc.gov

From: Coyne, Kevin
Sent: Friday, April 01, 2011 9:49 AM
To: Correia, Richard; Coe, Doug
Cc: Helton, Donald; Appignani, Peter
Subject: Re: Request for Briefing on SFP Study

Rich-

The main folks in res who have worked with spent fuel pool issues are Don Helton in dra/prab and charlie tinkler and jason schaperow in dsa. I'm not personally familiar with the work, but my understanding is that it was largely a dsa effort in the past. I've cc'ed Don so he can chime in, but my initial feeling is that this would largely be dsa lead with significant support from Don Helton.

Kevin

Sent from an NRC Blackberry
Kevin Coyne

(b)(6)

From: Correia, Richard
To: Coyne, Kevin; Coe, Doug
Sent: Fri Apr 01 09:34:39 2011
Subject: FW: Request for Briefing on SFP Study

Kevin

Please see Commissioner Apostolakis request below. Who in RES/DRA is our best person(s) to support this request?

thx

Richard Correia, PE
Director, Division of Risk Analysis
Office of Nuclear Regulatory Research

US NRC

richard.correia@nrc.gov

From: Cheok, Michael
Sent: Friday, April 01, 2011 9:30 AM
To: Correia, Richard; Coe, Doug
Cc: Bahadur, Sher; Ruland, William; Lee, Samson; Harrison, Donnie; Wertz, Trent
Subject: FW: Request for Briefing on SFP Study

Rich, Doug – Does RES want to take the lead on this and for us to support? (Or we can reverse this if you like) I kinda remember a SFP risk study back in the 90's. Not sure if there is a more recent one.

Mike

From: Wertz, Trent
Sent: Friday, April 01, 2011 9:11 AM
To: Cheok, Michael
Subject: FW: Request for Briefing on SFP Study

Mike,

Here's the request. I'll see if I can pin down when they want the briefing.

Trent

From: Williams, Shawn
Sent: Thursday, March 31, 2011 8:01 PM
To: Williams, Donna; Wertz, Trent
Cc: Wittick, Brian; Bowman, Gregory
Subject: FW: Request for Briefing on SFP Study

Is this request an NRR Lead, or NRO Lead, or maybe even Research? I would think NRR.

From: Snodderly, Michael
Sent: Thursday, March 31, 2011 7:01 PM
To: Williams, Shawn
Cc: Sosa, Belkys; Davis, Roger; Castleman, Patrick; Blake, Kathleen
Subject: Request for Briefing on SFP Study

Shawn,

Commissioner Apostolakis would like to request a briefing from the staff on the generic study of spent fuel pool accident risk. The Commissioner would like to have a better understanding of the risk from spent fuel pools including the risk due to fire and seismic. The Commissioner is aware of an adjudicatory issue associated with Diablo Canyon. So please avoid any discussion of SFP risk at Diablo Canyon. Commissioner Apostolakis plans to invite Commissioner Svinicki if she is interested. Please contact Kathleen Blake to schedule the briefing. Contact me if you have any questions concerning this matter.

Thanks,

Mike Snodderly
Technical Assistant for Reactors
to Commissioner Apostolakis

U. S. Nuclear Regulatory Commission

Phone: 301-415-2241

Email: michael.snodderly@nrc.gov

Coe, Doug

From: Correia, Richard
Sent: Friday, April 01, 2011 10:43 AM
To: Wertz, Trent; Cheek, Michael; Coe, Doug; Gibson, Kathy
Cc: Bahadur, Sher; Ruland, William; Lee, Samson; Harrison, Donnie; Tinkler, Charles; Coyne, Kevin
Subject: RE: Request for Briefing on SFP Study

Very much appreciated.

Richard Correia, PE
Director, Division of Risk Analysis
Office of Nuclear Regulatory Research
US NRC

richard.correia@nrc.gov

From: Wertz, Trent
Sent: Friday, April 01, 2011 10:42 AM
To: Correia, Richard; Cheek, Michael; Coe, Doug; Gibson, Kathy
Cc: Bahadur, Sher; Ruland, William; Lee, Samson; Harrison, Donnie; Tinkler, Charles; Coyne, Kevin
Subject: RE: Request for Briefing on SFP Study

Understand. I'll try to keep everyone informed of any changes or snags.

From: Correia, Richard
Sent: Friday, April 01, 2011 10:35 AM
To: Wertz, Trent; Cheek, Michael; Coe, Doug; Gibson, Kathy
Cc: Bahadur, Sher; Ruland, William; Lee, Samson; Harrison, Donnie; Tinkler, Charles; Coyne, Kevin
Subject: RE: Request for Briefing on SFP Study

Trent,

We are determining who in RES can support the briefing request. As you can imagine, many are supporting the IRC for the Japan event so we will need a bit more time to get back with you, but we will as soon as possible.

Richard Correia, PE
Director, Division of Risk Analysis
Office of Nuclear Regulatory Research
US NRC

richard.correia@nrc.gov

From: Wertz, Trent
Sent: Friday, April 01, 2011 10:29 AM
To: Cheek, Michael; Correia, Richard; Coe, Doug
Cc: Bahadur, Sher; Ruland, William; Lee, Samson; Harrison, Donnie
Subject: FW: Request for Briefing on SFP Study
Importance: High

BBB/88

See date and time below. As soon as we know who will be doing the briefing we need to get the names to ODEO.

Thanks,
Trent

From: Wittick, Brian
Sent: Friday, April 01, 2011 9:33 AM
To: Wertz, Trent; Nguyen, Quỳnh; Meighan, Sean
Subject: FW: Request for Briefing on SFP Study

Highlighted below is the requested briefing topic and time for Cmr Apostolakis and Svinicki.

Please confirm acceptance and who the briefers will be.

Thanks,
Brian Wittick
Executive Technical Assistant for Reactors
Office of the Executive Director for Operations
U.S. Nuclear Regulatory Commission
301-415-2496 (w [REDACTED])

(b)(6)

From: Blake, Kathleen
Sent: Friday, April 01, 2011 9:14 AM
To: Castleman, Patrick; Snodderly, Michael; Williams, Shawn
Cc: Sosa, Belkys; Davis, Roger; Lepre, Janet; Wittick, Brian
Subject: RE: Request for Briefing on SFP Study

April 14th at 1:00 p.m. (for one hour) is confirmed for both Cmr Apostolakis and Cmr Svinicki.

Brian: Does this day/time work for you? ka

Administrative Assistant
to Commissioner Apostolakis
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852
301-415-1810

From: Castleman, Patrick
Sent: Thursday, March 31, 2011 8:29 PM
To: Snodderly, Michael; Williams, Shawn
Cc: Sosa, Belkys; Davis, Roger; Blake, Kathleen; Lepre, Janet
Subject: RE: Request for Briefing on SFP Study

Mike and Kathleen,

Commissioner Svinicki would like to participate in this briefing. Kathleen, please coordinate with Jan on arrangements.

Thanks! Pat

From: Snodderly, Michael
Sent: Thursday, March 31, 2011 7:01 PM
To: Williams, Shawn
Cc: Sosa, Belkys; Davis, Roger; Castleman, Patrick; Blake, Kathleen
Subject: Request for Briefing on SFP Study

Shawn,

Commissioner Apostolakis would like to request a briefing from the staff on the generic study of spent fuel pool accident risk. The Commissioner would like to have a better understanding of the risk from spent fuel pools including the risk due to fire and seismic. The Commissioner is aware of an adjudicatory issue associated with Diablo Canyon. So please avoid any discussion of SFP risk at Diablo Canyon. Commissioner Apostolakis plans to invite Commissioner Svinicki if she is interested. Please contact Kathleen Blake to schedule the briefing. Contact me if you have any questions concerning this matter.

Thanks,

Mike Snodderly
Technical Assistant for Reactors
to Commissioner Apostolakis
U. S. Nuclear Regulatory Commission

Phone: 301-415-2241
Email: michael.snodderly@nrc.gov

Greenwood, Carol

From: Gibson, Kathy
Sent: Friday, April 01, 2011 6:19 PM
To: Hoxie, Chris
Subject: Re: Article from Japanese newspaper

I already sent it to him, but thanks!

From: Hoxie, Chris
To: Sheron, Brian
Cc: Uhle, Jennifer; Gibson, Kathy; Bush-Goddard, Stephanie
Sent: Fri Apr 01 18:14:49 2011
Subject: FW: Article from Japanese newspaper

Brian,

As we briefly discussed at the 8:45am, Charlie Tinkler's quick answer to your question is included below. When Charlie has a chance to "come up for air", he can give you a more detailed answer.

Chris L. Hoxie, PhD
Branch Chief, Code Development
Division of Systems Analysis
Office of Nuclear Regulatory Research
United States Nuclear Regulatory Commission
Room: CH3-D04
Phone: 301-251-7562

(b)(6)

From: Gibson, Kathy
Sent: Friday, April 01, 2011 6:32 AM
To: Hoxie, Chris
Subject: Fw: Article from Japanese newspaper

Here's Brian's question and Charlie's answer

From: Tinkler, Charles
To: Gibson, Kathy; Schaperow, Jason
Cc: Lee, Richard; Wagner, Katie
Sent: Thu Mar 31 18:38:41 2011
Subject: RE: Article from Japanese newspaper

The Oak Ridge prediction proceeds substantially more quickly than the SOARCA prediction, which has batteries for 4 hrs and results in containment failure and release in 19 ½ hrs.

This is an example of why we say SOARCA shows accident progression proceeds more slowly than previously estimated

From: Gibson, Kathy
Sent: Thursday, March 31, 2011 4:25 PM
To: Tinkler, Charles; Schaperow, Jason
Cc: Lee, Richard; Wagner, Katie
Subject: Fw: Article from Japanese newspaper

888/89

Can you answer? I can't read it all to the bottom on the Bberry. Thx

From: Sheron, Brian
To: Uhle, Jennifer; Santiago, Patricia; Gibson, Kathy
Sent: Thu Mar 31 15:57:40 2011
Subject: FW: Article from Japanese newspaper

See below. How well does this scenario agree or disagree with the SOARCA scenario for PB?

From: ET02 Hoc
Sent: Thursday, March 31, 2011 3:56 PM
To: Sheron, Brian
Subject: Article from Japanese newspaper

AJW by the Asahi Shimbun
AJW 3/11 quake update:

U.S. simulation predicted similar problems at Fukushima nuclear plant

A U.S. simulation exercise conducted about 30 years ago of what would happen at a boiling-water reactor if all power sources were lost eerily matches what has unfolded at the Fukushima No. 1 nuclear power plant.

...While the simulation demonstrated the dangers of losing all power sources, Japan's nuclear authorities took the optimistic position that power transmission lines and other power sources would be restored quickly.

The simulation was conducted by the Oak Ridge National Laboratory in 1981 and 1982. A report was later submitted to the U.S. Nuclear Regulatory Commission, which used the report's findings to establish safety regulations.

The simulation was based on the No. 1 reactor at the Browns Ferry Nuclear Plant in Alabama.

The reactor had an output of 1.1 gigawatts and was the same Mark I boiling-water reactor manufactured by General Electric Co. that is used at the No. 1 to No. 5 reactors at the Fukushima No. 1 nuclear plant.

One part of the simulation assumes that an external AC power source as well as emergency diesel generators have been lost, which is what actually happened at the Fukushima No. 1 plant after the Great East Japan Earthquake and subsequent tsunami hit on March 11.

The simulation goes on to predict what would likely occur depending on how long the emergency batteries were operable as well as on how the emergency cooling mechanism was working.

If the batteries could be used for four hours, the simulation predicts that after five hours without external power, the fuel rods in the core would become exposed. Thirty minutes later, the fuel rods would reach 485 degrees and start producing hydrogen. Another 30 minutes later, the fuel rods would begin to melt, according to the simulation.

It goes on to predict that seven hours after the loss of an external power source, the lower part of the pressure container would be damaged. Ninety minutes later, the containment vessel would be damaged.

Another simulation exercise assuming the use of batteries for six hours has fuel rods being exposed after eight hours and starting to melt after 10 hours. Damage to the containment vessel would occur after 13-and-a-half hours.

At the Fukushima No. 1 plant, the external power source was lost when the earthquake struck. It switched to an emergency diesel generator, but that was flooded and irreparably damaged by the tsunami about an hour later.

The only remaining power source was a DC battery.

At that point, the conditions at the Fukushima plant were nearly identical to those used in the simulation exercise.

Despite the fact that the batteries at the Fukushima plant could be used for eight hours, rather than six, the ensuing events at the Fukushima plant closely mimicked those in the simulation.

Moreover, if the predictions are extrapolated, it would mean that the containment vessels may no longer be sound, despite contrary comments by officials of Tokyo Electric Power Co., the operator of the Fukushima plant.

Satoshi Sato is a nuclear consultant who worked for many years at a GE-affiliated company, managing boiling-water reactors.

"The simulation is still sufficiently valid today," he said. "But I do not know if such knowledge has been passed down within electric power companies."

In Japan, the possibility that all external power sources could be lost at nuclear plants has not been seriously considered. In 1990, when the Nuclear Safety Commission of Japan decided on guidelines for approving safety design at nuclear plants, it stated, "There is no need to consider the loss of all AC power sources for a long period of time because we can expect a restoration of power transmission lines or the recovery of emergency AC power source facilities."

Shojiro Matsuura, president of the Nuclear Safety Research Association, once served as NSC chairman.

"There was the unspoken understanding that we did not have to think about a situation in which everything failed," Matsuura said. "It was not possible to foresee every possibility, such as a direct hit by a meteor."

(This article was written by Ichiro Matsuo and Ryoma Komiyama.)

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