

**From:** [Case, Michael](#)  
**To:** [Ali, Syed](#)  
**Subject:** RE: Travel Reservation March 24 for ALI  
**Date:** Thursday, March 24, 2011 6:43:00 AM

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Good luck, my friend!

---

**From:** Ali, Syed  
**Sent:** Wednesday, March 23, 2011 4:40 PM  
**To:** Case, Michael; Richards, Stuart; Hogan, Rosemary; West, Stephanie  
**Subject:** FW: Travel Reservation March 24 for ALI

FYI.

Thanks,  
Syed Ali

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**From:** Manassas Travel [mailto:usaid@manassastravel.com]  
**Sent:** Wednesday, March 23, 2011 4:34 PM  
**To:** Ali, Syed  
**Subject:** Travel Reservation March 24 for ALI

Manassas Travel is pleased to deliver your complete travel itinerary through Sabre® Virtually There®.

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- Get up-to-date weather and much more!

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<https://www.virtuallythere.com/new/reservationsChron.html?>

AG/901

host=1W&pnr=NINFA0GLP6X4&name=ALI&language=0&email=2

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**From:** [Case, Michael](#)  
**To:** [Boyce, Tom \(RES\)](#)  
**Cc:** [Richards, Stuart](#)  
**Subject:** RE: Daily: 4 New Items from Thursday, March 17, 2011  
**Date:** Thursday, March 24, 2011 6:48:00 AM

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I agree. I would just proceed (you got a ton of applicants)

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**From:** Boyce, Tom (RES)  
**Sent:** Wednesday, March 23, 2011 4:23 PM  
**To:** Case, Michael  
**Cc:** Richards, Stuart  
**Subject:** RE: Daily: 4 New Items from Thursday, March 17, 2011

Mike,

I've done some homework with HR regarding Rich Correia's request to open up the GG-15 position in RGDB to people who are non-908s. It would require redoing the Position Description, having it reclassified by HR, and reposting the position as well as the SOI.

I'm reluctant to do that because it will delay the process by at least a month, and even if I redo it I might lose the authority to repost. The vacancy announcement closed yesterday and there were 19 applicants, who may or may not be willing to reapply for a second vacancy. There will be an additional group that is applying to the SOI which closes on 3/31. From the numbers, I think I'll have a good set of candidates to select from.

I'd like to respond to Rich with this, but wanted to let you know my thinking first.

Tom

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**From:** Boyce, Tom (RES)  
**Sent:** Monday, March 21, 2011 4:07 PM  
**To:** Correia, Richard; Case, Michael  
**Cc:** Richards, Stuart  
**Subject:** RE: Daily: 4 New Items from Thursday, March 17, 2011

I'd agree with Mike that the position could be opened up to non-801s.

A bit more effort, but worthwhile if the people are good.

Let me check with HR on what this entails and I'll get back to you.

Tom

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**From:** Correia, Richard  
**Sent:** Monday, March 21, 2011 7:56 AM  
**To:** Case, Michael  
**Cc:** Boyce, Tom (RES); Richards, Stuart  
**Subject:** RE: Daily: 4 New Items from Thursday, March 17, 2011

Thx very much Mike. Appreciate your flexibility

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AG/902

**From:** Case, Michael  
**Sent:** Monday, March 21, 2011 7:40 AM  
**To:** Correia, Richard  
**Cc:** Boyce, Tom (RES); Richards, Stuart  
**Subject:** RE: Daily: 4 New Items from Thursday, March 17, 2011

I'm pretty flexible on that issue. It's Tom Boyce's posting so I'll check with him...

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**From:** Correia, Richard  
**Sent:** Friday, March 18, 2011 12:21 PM  
**To:** Case, Michael  
**Subject:** FW: Daily: 4 New Items from Thursday, March 17, 2011

Mike,

There are a couple of folks her in NSIR that are interested in doing some non-security type work. We think PM work might be a good place for them to rotate into. Your posting below requires an 801 person (engineer). How flexible is RES on allowing non 801s to apply for this position? If RES would accept non 801s, the opportunity would have to be reposted I'm sure.

Thx

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**From:** NRC Announcement [mailto:nrc.announcement@nrc.gov]  
**Sent:** Thursday, March 17, 2011 10:00 PM  
**To:** NRC Announcement  
**Subject:** Daily: 4 New Items from Thursday, March 17, 2011

NRC Daily Announcements

Highlighted Information and Messages



### Thursday March 17, 2011 -- Headquarters Edition

[General Interest: White Flint Complex Daily Parking](#)

[General interest: Financial Seminars Planned](#)

[Employee Resources: Solicitation of Interest - RES/DE/RGDB, Sr. Program Manager, GG-15](#)

[General Interest: Relocation of the Supply Store](#)

### **General Interest: White Flint Complex Daily Parking**

Effective Monday, March 21, 2011, the Office of Administration (ADM) will be suspending the issuance of daily parking passes at the White Flint Complex (WFC) garage to provide parking for the increased staff required to support the Operations Center 24/7 in response to the tragic events in Japan. During this time, staff are reminded that daily parking is available at the White Flint Metro for \$8.50 per day.

ADM has issued temporary emergency parking permits for staff supporting the Operations Center who do not currently possess a permanent WFC parking permit.



A subsequent announcement will be posted specifying the date when ADM will resume issuing daily parking permits. Thank you in advance for your patience and understanding.

**Contact: Administrative Services Center, 301-415-4272**



(2011-03-17 00:00:00.0)

[View item in a new window](#)

### **General Interest: Financial Seminars Planned**

The Employees Welfare and Recreation Association is sponsoring two sessions of a noontime financial seminar. Brian Thoms, a certified financial planner from Ameriprise Financial, will present a seminar: Investment Planning. During this seminar, you will learn ways to:

- Evaluate your investing progress.
- Keep emotions from affecting your financial decisions.
- Make smart, value-based decisions with your money.
- Manage risk to help optimize your portfolio.
- Understand how to coordinate various investment strategies to help support your investment goals.

Two sessions will be offered from 12 noon to 1 p.m. ET:

March 30, O-4 B-6

April 5, T-10 A-1

To ensure adequate seating, please make reservations by contacting [Crystal Rivers](#) at 240-314-4363.



(2011-03-17 00:00:00.0)

[View item in a new window](#)

### **Employee Resources: Solicitation of Interest - RES/DE/RGDB, Sr. Program Manager, GG-15**

The **Office of Nuclear Regulatory Research** is soliciting interest from **GG-15** employees for a lateral reassignment opportunity in the **Division of Engineering** as a **Sr. Program Manager** for the **Regulatory Guide Development Branch**.

Detailed information is available on the [NRC internal Web page](#).

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If you have difficulty accessing a Web link in this announcement, contact the [NRC Announcement Coordinator](#), Beverly Martin, ADM/DAS, 301-492-3674.



(2011-03-17 00:00:00.0)

[View item in a new window](#)

### **General Interest: Relocation of the Supply Store**

On Monday, March 14, 2011, the Office of Administration (ADM) opened its new supply store, which has been relocated to O-P1 C12, adjacent to the loading dock guard station. The new supply store has improved lighting and better shelving to allow easier access to supplies. Operating hours remain Monday through Friday, 8:00 a.m. to 4:30 p.m. ADM looks forward to seeing you soon.

Contact: JoAnne Thweatt, 301-415-0187



(2011-03-17 00:00:00.0)

[View item in a new window](#)

**The latest Announcements are always on the [NRC@WORK Home Page](#).**

**[Announcements by Date](#) | [Announcements by Category](#)**

**Search Announcements: term term [Go]**

**[Frequently Asked Questions About the NRC Daily Announcements Email](#)**

**Beasley, Benjamin**

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**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 6:53 AM  
**To:** Perkins, Richard  
**Subject:** Meeting today

Please attend the meeting on conversion of data systems to Windows 7. You have the lead for migrating GIMCS to Windows 7. The meeting is:

1:00-2:00	Q&A Session with RES Staff on the Windows 7 Desktop Migration	C- 5C19
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Thanks!

Ben

## Beasley, Benjamin

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**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 6:56 AM  
**To:** Coyne, Kevin  
**Subject:** RE: INL Funding

On Tuesday I asked Art, John and Larry to prepare incremental funding actions for each of our INL projects. I have N6890 on my desk now and expect the others this week.

BB

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**From:** Coyne, Kevin  
**Sent:** Wednesday, March 23, 2011 6:59 PM  
**To:** Beasley, Benjamin  
**Subject:** INL Funding

Ben –

Just wanted to give you a quick heads up. I spoke with Marty Sattison a few minutes ago – I had asked him about funding levels on our various DRA contracts and he indicated that both N6632 and N6631 were down to about a month of funds (... some of mine are in even greater peril ☺). Given that N6631 was covering common cause failure, he was worried that this was going to get hit pretty hard this week....

Kevin

**From:** [Case, Michael](#)  
**To:** [Sangimino, Donna-Marie](#)  
**Cc:** [Dehn, Jeff](#); [Eisenberg, Wendy](#); [Boyce, Tom \(RES\)](#); [Rini, Brett](#); [Carpenter, Robert](#)  
**Subject:** FW: IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"  
**Date:** Thursday, March 24, 2011 7:00:00 AM

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Hi DM. Do you know where we are on this request? This is the one that I got through informal channels that I funneled up to you folks to engage IP. I think it's a good opportunity for NRC involvement. It's not one of the more controversial areas but it does cover a large amount of territory with respect to the number of systems involved. If we can contribute to the Safety Guide, I think we can get it to pattern our organization with respect to these systems.

---

**From:** [N.Tricot@iaea.org](mailto:N.Tricot@iaea.org) [<mailto:N.Tricot@iaea.org>]  
**Sent:** Thursday, March 24, 2011 6:51 AM  
**To:** Case, Michael  
**Subject:** RE: IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"

Dear Dr Case

This is a reminder as we are getting closer to the Consultancy Meeting. Should you be able to assign one expert, for IAEA logistic aspects, I would appreciate it if you could let me know his name as soon as possible. The meeting will be held from 4 to 8 April 2011.

I would like to thank you again for your kind support.

With my best regards,

Nicolas

Nicolas TRICOT  
Safety Assessment Section  
Division of Nuclear Installation Safety  
Wagramer Strasse 5, Room B0649  
A-1400 Vienna, Austria  
Tel: 0043 1 2600 25992

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**From:** [Michael.Case@nrc.gov](mailto:Michael.Case@nrc.gov) [<mailto:Michael.Case@nrc.gov>]  
**Sent:** Monday, 07 March 2011 14:06  
**To:** TRICOT, Nicolas  
**Subject:** RE: IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"

Good morning Dr. Tricot. I just wanted to let you know that we're working on this. I'll update you when I hear back from the offices with the appropriate experts.

Best regards,

Mike Case

AG/905

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**From:** N.Tricot@iaea.org [mailto:N.Tricot@iaea.org]  
**Sent:** Tuesday, March 01, 2011 8:39 AM  
**To:** Case, Michael  
**Subject:** IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"

Dear Dr Case

As you probably know already, I am working on developing a new IAEA Safety Guide on "**Design of Auxiliary and Supporting Systems in Nuclear Power Plants**". The development of this IAEA Safety Guide has been approved by the IAEA Commission of Safety Standards last November 2010 and the related Document Preparation Profile (DPP) that includes the roadmap for development is also attached herewith.

However, the following should be considered:

- a) the choice to include cross references to existing recommendation to avoid duplication of recommendations;*
- b) a step on performing the inventory of current recommendations in various existing safety guides prior to the commencement of the drafting of the guide in the guide development process. NUSSC requested the Secretariat to present this inventory (b) item) at its meeting in June 2011.*

To fulfil these requests, in priority item b/, and to launch the drafting of the safety guide, I would appreciate it if you could assign a Japanese representative (either from the USNRC side or from the Industry side) who would be able to participate in an IAEA Consultancy Meeting, on a cost free basis to the IAEA, that is tentatively scheduled from 4 to 8 April 2011 or 11 to 15 April (these dates are still flexible). Please let me know.

I would like to thank you in advance for your support.

With my kind regards,

Nicolas TRICOT

Safety Assessment Section

Division of Nuclear Installation Safety

Wagramer Strasse 5, Room B0649

A-1400 Vienna, Austria

Tel: 0043 1 2600 25992

<<dpp440.pdf>>

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## Beasley, Benjamin

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**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 7:01 AM  
**To:** Perkins, Richard  
**Subject:** FW: Reminder about Q&A session on Windows 7/Office 10 migration with OIS  
**Attachments:** RES Windows 7 Presentation 3-24-11.pdf

Regarding my previous email about the meeting today, there is another session next Tuesday if that time is better.

BB

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**From:** RESHelpDesk Resource  
**Sent:** Wednesday, March 23, 2011 4:08 PM  
**To:** RES Distribution  
**Subject:** FYI: Reminder about Q&A session on Windows 7/Office 10 migration with OIS

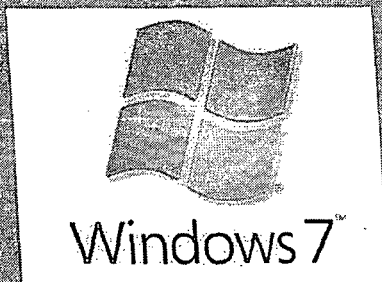
Bob Randall from the Office of Information Services (OIS) will be conducting a Windows 7/Office 2010 Q&A session tomorrow, March 24th in room 5C19 from 1pm – 2pm. Bob will be presenting the information included in the attachment and addressing any other questions or concerns you may have regarding the Windows 7/Office 2010 migration. If you are unable to attend tomorrow's session, another one will be held on March 29<sup>th</sup> in room 2C19 from 11am -12pm.

If you have any questions please contact John Wucher on 301.251.7960 or via email at the [RESHelpDesk](#).

AG/906



# Windows 7 Development & Application Testing Project



Bob Randall  
Network Integration Team  
Office of Information Services

## Windows 7 Project Overview

- OIS developed a Windows 7 desktop/laptop image that will replace the existing Windows XP operating system on all agency desktop and laptop computers
- Office 2010 and Adobe Professional are included in the Windows 7 image
- The NRC deployment of Windows 7 will be a 64-bit operating system
  - 64-bit operating systems allow up to 192GB of RAM
  - Leverage existing processors for better performance
  - Allows installation of 64-bit applications
  - More stable operating system

## Impact of a 64-bit operating system

- Windows 7 supports most 32-bit and all 64-bit applications, but it does not support legacy 16-bit or DOS based applications
- 64-bit operating system platform can introduce compatibility issues with commercial or legacy NRC applications which could require modernization of these applications
- Cost to Program Offices associated with re-writing legacy NRC applications needs to be identified as soon as possible

RES Windows 7 Project Presentation

## Application Testing

- **ALL** NRC custom developed or commercial off the shelf (COTS) application **must** be tested before they can be installed on the new desktop configuration
  - Applications that are **not** tested **will not** be approved for installation on Windows 7
  - Some COTS applications may require updated versions or patches to be fully supported and functional on the new platform
  - If COTS vendors state their application is Windows 7 compatible, it still must be tested in our environment
  - Applications with tight integration with Windows, Internet Explorer, or Microsoft Office (including macros) will need to be tested to ensure they will function on the new Windows 7 / Office 2010 platform

RES Windows 7 Project Presentation

## Application Testing in the CTF

- A Windows 7 test environment is available in the CTF for offices to test their applications
  - 5 Physical workstations
  - Remote access to virtual workstations is available from your NRC desktop
- Testing on the Production network should be available soon
- SharePoint site is available to schedule time for testing
- All NRC custom and COTS applications must be identified and tested as soon as possible
- A list of known NRC custom and COTS applications is available on the SharePoint site
- Communications continue with the program offices, system owners, PMDA directors, and other staff and contractors

RES Windows 7 Project Presentation

## Project Timeline

- Estimated Project Timeline:

Timeframe	Activity	Status
September 2010 - October 2010	Develop the initial Windows 7 / Office 2010 image	Completed
November 2010 - September 2011	Application testing performed and applications remediated as necessary	In Progress
October 2011 - December 2011	Final application testing with approved NRC Windows 7 / Office 2010 workstation image	
January 2012 - March 2012	Finalize Windows 7 / Office 2010 image and prepare for agency wide deployment	
April 2012 - June 2012	Agency wide deployment of Windows 7 / Office 2010 image	

RES Windows 7 Project Presentation

## Next Steps

- Identify your applications
  - A spreadsheet is available on the Windows 7 SharePoint site for reference which will be maintained as testing progresses
- Start planning now to modernize legacy NRC custom developed applications
  - Work to get support contracts in place or leverage existing contracts to resolve application issues on Windows 7
- Schedule Testing!



Contact the Project team for questions or help!



RES Windows 7 Project Presentation

## Questions?

- SharePoint Application tester's Site:  
<http://portal.nrc.gov/edo/ois/icod/ddb/MSW7/default.aspx>
- Project Points of Contact:
  - Bob Randall – *OIS/ICOD Project Lead*
  - Pamela Davis-Ghavami - *OIS/BPIAD Application Testing Coordinator*
  - Thomas Magee (Region 3) – *Regional Project Coordination*

RES Windows 7 Project Presentation

**From:** [Federal Computer Week](#)  
**To:** [Case, Michael](#)  
**Subject:** Enterprise Architecture Best Practices from DHS S&T Chief EA - Free Seminar  
**Date:** Thursday, March 24, 2011 7:00:51 AM

IT Visibility. Solved. - April 6 - JW Marriott

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**Complimentary Seminar**

**WHEN:**  
**Wed., April 6, 2011**

**8:00-8:30 a.m.**  
Registration & Breakfast

**8:30-11:00 a.m.**  
Seminar

**WHERE:**  
JW Marriott Hotel  
1331 Pennsylvania Ave NW  
Washington, DC

**PRESENTED BY:**

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AG/907



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**From:** [Coe, Doug](#)  
**To:** [Drouin, Mary](#)  
**Cc:** [Demoss, Gary](#)  
**Subject:** RE: SRM  
**Date:** Thursday, March 24, 2011 7:05:00 AM

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Mary – NRR got this SRM for action. Steve Laur is the poc. I'm sure he would value having your input.

Doug

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**From:** Drouin, Mary  
**Sent:** Tuesday, March 15, 2011 5:52 PM  
**To:** Correia, Richard; Coe, Doug; Coyne, Kevin  
**Cc:** Demoss, Gary  
**Subject:** RE: SRM

I have been heavily involved in development of policy statement on DID; some information here on the history which might help:

- 3-28-03, SECY-03-0047, staff recommended Commission to develop definition of DID in a Policy Statement
- 6-26-03, in responding SRM, Commission agreed, however, noted that the staff should **consider** updating PRA policy statement rather than a new policy statement
- It was right after this SECY paper and SRM where I became involved and took the lead on the various policy issues, including development of policy statement on DID; we also did not think that updating the PRA policy statement was the correct route because it was the general thought that DID was broader than PRA
- 6-23-04, SECY-04-103, staff provided status and had started effort by looking at associated issues in development of regulatory framework to support development of definition on DID
- 1-7-05, SECY-05-0006, staff committed to providing definition to Commission in December 05
- 7-21-05, SECY-05-103, staff committed to provide recommendation on definition of DID
- 9-14-05, in responding SRM, Commission directed to put request in ANPR (other issues main thrust of the ANPR)
- 1-9-06, SECY-06-0007, approval to issue ANPR, staff also committed to provide recommendation to Commission by October 06
- 3-22-06, Commission approval to issue ANPR
- 5-4-06, ANPR issued

AG/908

- 6-14-07, SECY-07-0101, based on input/insights from ANPR, staff recommended development of a separate policy statement and indicated effort had commenced (insights from ANPR support a separate policy statement on DID which was recommended to the Commission)
  - ¾ Task group formed with representatives from each office including representative from OGC, I was the lead of the task group
- 9-10-07, in responding SRM, develop draft policy statement and use insights from development of NGNP licensing strategy and PBMR pre-application review
- 4-7-09, SECY-09-0056, staff stated they had deferred policy statement until insights gained from NGNP and other non-LWR reviews
  - ¾ Task group stopped work (never "formally disbanded")

The various SECY's are, of course, more complicated and have much more information, but I have just tried to give you a very brief look of the history with regard to DID. If the efforts starts up, I hope that I will have the lead, particularly considering all the history.

The big issue was not so much the definition, but people not differentiating between a definition of DID and the implementation of DID.

Hope this helps, tks, mary

---

**From:** Correia, Richard  
**Sent:** Tuesday, March 15, 2011 4:44 PM  
**To:** Coe, Doug; Coyne, Kevin  
**Cc:** Drouin, Mary; Helton, Donald; Marksberry, Don; Demoss, Gary  
**Subject:** RE: SRM

Agree Doug. Good insights. This is like defining "important to safety" in certain aspects.

---

**From:** Coe, Doug  
**Sent:** Tuesday, March 15, 2011 12:41 PM  
**To:** Coyne, Kevin; Correia, Richard  
**Cc:** Drouin, Mary; Helton, Donald; Marksberry, Don; Demoss, Gary  
**Subject:** RE: SRM

Kevin/Rich,  
 I agree. Coming up with a consensus on precise language that defines defense-in-depth seems like a long-term undertaking that should include public input, multi-discipline and multi-office technical input, and legal input. Because the term is used in many documents both formal and informal, it also seems more appropriate to consider defining it in an over-arching document, such as a Commission policy statement, rather than individually wherever it currently appears.  
 The term is also mentioned in the Commission's policy statement on the use of PRA, making it potentially within the scope of Christiana's task force. We'll need to think this through carefully before deciding on the right approach.  
 Doug

---

**From:** Coyne, Kevin  
**Sent:** Tuesday, March 15, 2011 11:44 AM  
**To:** Coe, Doug; Correia, Richard  
**Cc:** Drouin, Mary; Helton, Donald; Marksberry, Don; Demoss, Gary  
**Subject:** FW: SRM



Doug, Rich -

Head's up on the containment accident pressure SRM. Note the second paragraph requesting better guidance for defense in depth in RG 1.174 and other related guidance documents.

I would think we would want to continue moving forward on issuing the most recent in-progress revision to 1.174 (which we recently briefed the ACRS on) since this was largely intended to ensure consistency with the March 2009 issuance of RG 1.200 and this defense-in-depth guidance effort could turn out to be a significant effort...

Kevin

---

**From:** Lui, Christiana  
**Sent:** Tuesday, March 15, 2011 10:49 AM  
**To:** Coyne, Kevin  
**Subject:** SRM

**From:** Homeland Security NewsWire  
**To:** Leeds, Eric  
**Subject:** Libya update | Smart traffic for first responders | Tracing bullets  
**Date:** Thursday, March 24, 2011 7:11:13 AM

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## ISC West 2011 International Security Conference & Exposition, April 5-8, Las Veg



Homeland Security News Wire



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Vol. 5, no. 69, Thursday, 24 March 2011

### In Today's Issue

#### Libya update

##### Obama: Coalition cannot militarily force Gaddafi to leave

The Obama administration is continuing to send mixed messages about the direction, purpose, and effect of the U.S.-led missile strikes on Libya, with conflicting statements from the top about Col. Qaddafi's grip on power five days into the campaign; the coalition's air dominance has been achieved, but administration officials have not offered a clear picture as to what the no-fly zone is expected to yield; the president reiterated that the coalition does not "have military tools at our disposal in terms of accomplishing Qaddafi's leaving," though he has said it is U.S. policy that Qaddafi should go; Libyan Foreign Minister Musa Kusa spoke by telephone Sunday night with assistant secretary of State Jeffrey Feltman; no details were released

[Read more](#)

#### In the trenches

##### CT scans help doctors treat sniper wounds

Determining a bullet or bomb fragment's path through flesh and bone can help doctors treat injuries and decide which patients to prioritize; instead of relying solely on visual cues and a possibly deviated bullet path, researchers are working to develop high-resolution computed tomography (CT)-based methods of accurately determining a bullet's trajectory

[Read more](#)

#### First responders

##### Smart traffic system to reduce first responder deaths

Nearly 13 percent of the firefighters and police officers who die in the line of duty are killed in vehicle-related incidents, and fire trucks are involved in 10 times as many collisions as other heavy trucks; University of Arizona researchers have teamed up with the Maricopa County Department of Transportation (MCDOT) to create a system that will make intersections safer for emergency responders and the general public

[Read more](#)

##### Madison County, IL receives \$260,000 in DHS grants

Two fire departments in Madison County, Illinois were recently awarded more than \$260,000 in federal grants; the grants come as part of DHS' Assistance to Firefighters program and goes toward the purchase of new safety gear and firefighting equipment; the Wood River fire department will receive \$223,556 to help pay for a high-volume foam monitor as well as foam that will be used to put out chemical fires; the Rosewood Heights Fire Protection District will receive \$37,050 to procure thirty sets of new protective fire suits

[Read more](#)



#### Cybersecurity

##### DHS struggles with IT hiring

DHS has actively sought to recruit more employees with critical cyber security skills, but has struggled with internal obstacles that have slowed hiring; in 2010 DHS set a goal of hiring 1,000 employees with cyber security skills in three years, but so far has only managed to hire roughly 200 in 2010 and it plans to hire 100 this year; the new employees will focus on network and systems engineering, incident response, and risk and strategic analysis; obstacles to hiring include lengthy security clearance processing times, noncompetitive pay, and an outdated job classification system

[Read more](#)

##### Emergency communication

##### Ensuring cyber infrastructure in rural areas meet demand in emergencies

Research groups at the University of California, San Diego are building a scalable computer

AG/909

infrastructure to provide better access to camera feeds from rural areas when fires, earthquakes, flash floods, or other natural disasters hit San Diego County; approximately 1,000 people visit High Performance Wireless Research and Education Network's (HPWREN) Web page to view camera feeds on a typical day. On a not-so-typical day -- like when snow recently blanketed large swathes of rural San Diego mountaintops -- the number of visitors quadrupled

Read more

#### China syndrome

##### What if there is a U.S.-China cyberwar in 2020?

With an increasing number of countries around the globe developing military cybercapabilities, many in the information-security community have been saying either, 'We're in a cyberwar with China' or 'It's time to prepare for a cyberwar with China'; a Rice University fellow says that that cyberwar is not a substitute for real warfare but instead may be a component of conventional or unconventional military action, and that there is a great deal of very conventional thinking on this very unconventional topic

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#### Network security

##### Northrop awarded \$1.1 billion DHS contract

Northrop Grumman Corp. recently announced that it was awarded a government contract worth up to \$1.1 billion to "operate, maintain, and enhance" classified networks for DHS; Northrop will build and maintain a classified network that will transmit data, voice, and video to over 15,000 users; the system is designed using a proprietary cloud-based computing model that can be accessed remotely

Read more

#### Energy futures

##### Marines complete largest solar power system yet

The U.S. Marine Corps recently completed construction of a 1.4 megawatt solar electric system at Marine Corps Base Camp Pendleton; the solar installation is currently the largest system installed to date on a Marine base; the new system is expected to generate 2,400 megawatts each year and power roughly 400 homes; it will save the base \$336,000 in energy costs annually; on Monday, the Corps announced a comprehensive strategy to harness solar energy in Afghanistan to reduce fuel consumption and save lives

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**From:** [US Airways e-Saver](#)  
**To:** [Leeds, Eric](#)  
**Subject:** Your US Airways e-Saver  
**Date:** Thursday, March 24, 2011 7:12:47 AM

Please add [esaver@myusairways.com](mailto:esaver@myusairways.com) to your personal address book to ensure delivery. Please do not reply to this email.



## US Airways Twitter



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Philadelphia, PA	Tampa, FL	<u>\$249</u>
Phoenix, AZ	Los Angeles, CA	<u>\$199</u>
Charlotte, NC	Frankfurt, Germany	<u>\$257</u>
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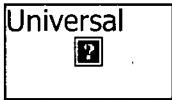
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AG/910



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**From:** [Hudson, Daniel](#)  
**To:** [Coyne, Kevin](#)  
**Cc:** [Coe, Doug](#)  
**Subject:** Request for Project-Based Telework on 3/24 and 3/25  
**Date:** Thursday, March 24, 2011 7:14:02 AM

---

Kevin,

After checking my schedule, and realizing that there are no meetings at the office that I need to attend, I am writing to request permission to work on the Level 3 PRA paper from home for today and tomorrow morning?

I attended the CCF workshop morning session yesterday and met with Ali Mosleh during one of the breaks to discuss potential dissertation topics. I therefore will not be attending the remainder of the CCF workshop at OWFN today.

For tomorrow, I am scheduled to meet with Mohammad Modarres at 1:30pm at UMD. I therefore plan to work until 12:30pm, using credit hours to cover the trip to UMD.

Needless to say, making progress on the paper from the office has been a challenge this week. I think it would be really helpful to get some focused time at home while Jake is with his mom.

How does this sound to you?

Thanks!  
Dan

Daniel W. Hudson  
Technical Assistant  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
Division of Risk Analysis  
Daniel.Hudson@nrc.gov  
301-251-7919

AG/911

**From:** [Case, Michael](#)  
**To:** [Flory, Shirley](#)  
**Subject:** RE: REMEMBER TO DO YOUR TIME SHEET. Thanks much - Shirley  
**Date:** Thursday, March 24, 2011 7:15:00 AM

---

Thanks Shirley. I think I got it in right.

---

**From:** Flory, Shirley  
**Sent:** Wednesday, March 23, 2011 3:38 PM  
**To:** Case, Michael  
**Subject:** REMEMBER TO DO YOUR TIME SHEET. Thanks much - Shirley

AG/912

**Murphy, Andrew**

---

**From:** Murphy, Andrew  
**Sent:** Thursday, March 24, 2011 7:21 AM  
**To:** 'Blahoianu, Andrei'  
**Subject:** RE: urgent request

Dear Andrei,

I understand the urgency of your request, but until afternoon today, at least I have a couple of other fire drills. To get you started go to Google and Google - [www.nrc.gov/info-finder/reactor/perr1.html](http://www.nrc.gov/info-finder/reactor/perr1.html) - this will provide basic information on Perry and may lead you to the additional specifics you need do the similar search for Ginna and Nine Mile Point. All the plants did an IPEEE assessment including seismic vulnerabilities.

Andy

---

**From:** Blahoianu, Andrei [<mailto:Andrei.Blahoianu@cnsccsn.gc.ca>]  
**Sent:** Wednesday, March 23, 2011 10:53 PM  
**To:** Murphy, Andrew  
**Subject:** urgent request  
**Importance:** High

Dear Andy,

These days there is a public hearing on environmental assessment for the new plants that will be built by OPG at Darlington site. One intervener asked details about the seismic qualification of the operating plants in USA on the other side of the Great Lakes. I guess Perry, Ginna and Nine Point maybe more.

Please, send me urgently some information about these plants: type, power per unit, commissioning year, original design PGA for SSE, if there were re-assessed, what methodology has been used to re-asses and what is the new PGA for which they were re-assessed.

I need it tomorrow by the end of the day. Sorry being so demanding, I hope that you have this information at hand.

Thanks a lot and a beer on me in Paris,

Andrei

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AG/913



**From:** [Leeds, Eric](#)  
**To:** [Hayden, Elizabeth](#)  
**Subject:** RE: FYI - More NY State involvement  
**Date:** Thursday, March 24, 2011 7:27:00 AM

---

No problem. We're a team.

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

---

**From:** Hayden, Elizabeth  
**Sent:** Wednesday, March 23, 2011 6:26 PM  
**To:** Leeds, Eric  
**Subject:** RE: FYI - More NY State involvement

Update would probably work better if it is not too much trouble. Thanks for your support.

*Beth*

---

**From:** Leeds, Eric  
**Sent:** Wednesday, March 23, 2011 5:56 PM  
**To:** Hayden, Elizabeth  
**Subject:** RE: FYI - More NY State involvement

I'm fine giving you an update. But your company is always welcome!

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

---

**From:** Hayden, Elizabeth  
**Sent:** Wednesday, March 23, 2011 5:18 PM  
**To:** Leeds, Eric  
**Subject:** RE: FYI - More NY State involvement

Do you want me to sit in at the 11 a.m. meeting or can one of your staff give me the highlights afterwards?

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

AG/914

---

**From:** Leeds, Eric

**Sent:** Wednesday, March 23, 2011 12:08 PM

**To:** Dean, Bill; Lew, David

**Cc:** Roberts, Darrell; Boger, Bruce; Grobe, Jack; Virgilio, Martin; Borhardt, Bill; Brenner, Eliot; Hayden, Elizabeth; Powell, Amy; Schmidt, Rebecca; Wittick, Brian

**Subject:** FYI - More NY State involvement

FYI – We’ve heard that NY City – Mayor Bloomberg or his staff – is interested in meeting with the NRC to express a different point of view than we received from the NY State group that we met with yesterday. That meeting is not yet set up. In addition, I have a teleconference with Congresswoman Nan Hayworth – she took over the IP district that had been held by John Hall – tomorrow at 11 am.

I’ll keep you informed.

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

## Murphy, Andrew

---

**From:** Murphy, Andrew  
**Sent:** Thursday, March 24, 2011 7:30 AM  
**To:** 'Richard W Harrison'  
**Subject:** RE: East Tennessee Seismic Zone

Rich,

Thanks for understanding the hectic nature of the current situation. I will not be at this year's SSA – an annual meeting in Paris the previous week. I will read the report when it gets here; please email me next week to check on a meeting time & date – maybe next week. Lynn Sykes and others wrote a paper, which is in the BSSA a couple of years back, 2008, I think, on the Lamont New York area catalog. This is the source of the "earthquake fault".

I would love to talk about the ETSZ.

Andy

---

**From:** Richard W Harrison [<mailto:rharriso@usgs.gov>]  
**Sent:** Thursday, March 24, 2011 7:17 AM  
**To:** Murphy, Andrew  
**Subject:** RE: East Tennessee Seismic Zone

Hey Andy, I tried to send you a white paper on the research that I have proposed to the National Cooperative Mapping Program, but it got returned because it was too large of a file. I'll put hard copy in the mail.

Will you be attending the SSA meeting in Memphis next month? If so, we can get together then and talk. If no, then I will come visit you when you tell me that the timing is better. I'm sure that NRC is fairly busy right now.

I am very curious about where the News media is getting the notion of a "earthquake fault" in vicinity of the Indian Point reactor. Do you know the source?

take care & good luck,  
Rich

AG/9/15

**From:** [Case, Michael](#)  
**To:** [Richards, Stuart](#)  
**Subject:** FW: Final 2005-2008 rule  
**Date:** Thursday, March 24, 2011 7:50:00 AM

---

Sorry, missed you on this one.

---

**From:** Case, Michael  
**Sent:** Thursday, March 24, 2011 7:50 AM  
**To:** Norris, Wallace  
**Cc:** Boyce, Tom (RES); Moyer, Carol; West, Stephanie  
**Subject:** RE: Final 2005-2008 rule

Thanks Wally. Can you write me 3 or 4 bullets with the highlights of the changes from the rule? I'll take that, a description of our "open item" and our recommendation to Brian to concur with comments and email Brian.

I'll propose that if he is OK with our explanation, I'll e-mail back to NRR our concurrence with comments.

---

**From:** Norris, Wallace  
**Sent:** Wednesday, March 23, 2011 12:35 PM  
**To:** Case, Michael  
**Cc:** Boyce, Tom (RES); Moyer, Carol; West, Stephanie  
**Subject:** FW: Final 2005-2008 rule

Mike, I've reviewed the draft final rule. Other than the document desperately needs to be edited (lots of extra spaces in the middle of sentences and spacing), I'm ok other than they still haven't fixed the issue I raised. Geary indicated below that he has tried to fix this.

How do you want to proceed? I don't have a hard copy. Do we need one for Brian's concurrence? Since Geary is aware of the issue, it will get corrected. I would recommend that we concur with the comment that RES' approval is subject to the wording below being corrected.

Thanks, Wally

---

**From:** Mizuno, Geary  
**Sent:** Wednesday, March 23, 2011 12:27 PM  
**To:** Norris, Wallace  
**Subject:** RE: Final 2005-2008 rule

This is not quite right. I keep fixing this and it keeps getting changed.

---

**From:** Norris, Wallace  
**Sent:** Wednesday, March 23, 2011 12:25 PM  
**To:** Mizuno, Geary  
**Subject:** Final 2005-2008 rule

Geary, following up on your response to the emails regarding the NTTAA and what it does or doesn't require, I'm reviewing the final rule and found the following (my underlining):

AG/9/6

“This final rule action is in accordance with the NRC’s policy to incorporate by reference in 10 CFR 50.55a new editions and addenda of the ASME B&PV and OM Codes to provide updated rules for constructing and inspecting components and testing pumps, valves, and dynamic restraints (snubbers) in light-water nuclear power plants. ASME Codes are national voluntary consensus standards and are required by the National Technology Transfer and Advancement Act of 1995, Pub. L. 104–113, to be used by government agencies unless the use of such a standard is inconsistent with applicable law or otherwise impractical. The National Environmental Policy Act (NEPA) requires Federal government agencies to study the impacts of their “major Federal actions significantly affecting the quality of the human environment,” and prepare detailed statements on the environmental impacts of the proposed action and alternatives to the proposed action (42 U.S.C. Sec. 4332(C); NEPA Sec. 102(C)).”

As I understood your email, it doesn’t require that we adopt the ASME Codes. Did I understand your email correctly? Thanks, Wally

## Kauffman, John

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 7:55 AM  
**To:** Graves, Herman; Pires, Jose  
**Subject:** IP SFP Seismic Reviews/Info  
**Attachments:** image001.gif

**Importance:** High

Herman, Jose,

New York State officials met with senior NRC officials earlier this week. One topic I have been asked to collect info and create talking points is:

The seismic ruggedness of spent fuel pools and when Indian Point Spent Fuel Pools had seismic evaluations. (GI-182, IPEEE review, licensing review, etc.) Of course, the more recent the better.

I was told that you prepared info on these topics for the Commission meeting earlier this week, or otherwise might have info or could point me in the right direction. Thanks in advance.



*John V. Kauffman*

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

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Pires, Jose

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**From:** [Facilities Bulletin](#)  
**To:** [Facilities Bulletin](#)  
**Subject:** FACILITIES BULLETIN - SAFETY and SECURITY - Closure of the Two White Flint Cafeteria for Emergency Repairs  
**Date:** Thursday, March 24, 2011 7:55:51 AM  
**Importance:** High

---

## **Facilities Bulletin – Safety and Security – Closure of the Two White Flint Cafeteria for Emergency Repairs**

The Two White Flint cafeteria has been closed due to a leak caused by the deterioration of a 40-foot section of drainage pipe that prevents water usage in the kitchen/cafeteria. While we anticipate reopening the cafeteria tomorrow (Friday, March 25), under its normal operating schedule, a subsequent bulletin will be issued to confirm. The NuReg café in One White Flint and the Snack and Go in Two White Flint are unaffected and operating under their normal schedules.

We regret any inconvenience and thank you for your patience and understanding.

If you have any questions, please contact Greg Chicca, 301-415-6928 or [Gregory.chicca@nrc.gov](mailto:Gregory.chicca@nrc.gov).

AG/918



**To:** [Markley, Anthony](#)  
**Cc:** [Helton, Shana](#)  
**Subject:** RE: Agenda for Today's Meeting  
**Date:** Thursday, March 24, 2011 7:56:59 AM

---

Hi Tony. Sorry I couldn't make the meeting yesterday. How do you think it went from your end? I think I have some folks on my end that seem particularly motivated to helping to

---

**From:** Markley, Anthony  
**Sent:** Wednesday, March 23, 2011 12:09 PM  
**To:** Rebstock, Paul; Kemper, William; McCausland, Jayne; Stattel, Richard; Rahn, David; Wilson, George; Sydnor, Russell; Mizuno, Geary; Aggarwal, Satish; Arndt, Steven; Santos, Daniel  
**Cc:** Case, Michael; Helton, Shana  
**Subject:** Agenda for Today's Meeting  
**Importance:** High

Please see the attached for the subject document. Looking forward to meeting with you today!

AG/919.

**From:** [Case, Michael](#)  
**To:** [Markley, Anthony](#)  
**Cc:** [Helton, Shana](#)  
**Subject:** RE: Agenda for Today's Meeting  
**Date:** Thursday, March 24, 2011 7:59:00 AM

---

Hi Tony. Sorry I couldn't make the meeting yesterday. How do you think it went from your end? I think I have some folks on my end that seem particularly motivated to help to get this rule done. If you have a focused task that they can do for you, let me know and we can probably get them to do it...

---

**From:** Markley, Anthony  
**Sent:** Wednesday, March 23, 2011 12:09 PM  
**To:** Rebstock, Paul; Kemper, William; McCausland, Jayne; Stattel, Richard; Rahn, David; Wilson, George; Sydnor, Russell; Mizuno, Geary; Aggarwal, Satish; Arndt, Steven; Santos, Daniel  
**Cc:** Case, Michael; Helton, Shana  
**Subject:** Agenda for Today's Meeting  
**Importance:** High

Please see the attached for the subject document. Looking forward to meeting with you today!

AG/920

**From:** [Richards, Stuart](#)  
**To:** [Srinivasan, Makuteswara](#)  
**Cc:** [Case, Michael](#)  
**Subject:** RE: My trip to England  
**Date:** Thursday, March 24, 2011 7:59:55 AM

---

Srini

Did NRO concur on the research plan?

Thanks  
Stu

---

**From:** Srinivasan, Makuteswara  
**Sent:** Thursday, March 24, 2011 7:16 AM  
**To:** Richards, Stuart  
**Cc:** Case, Michael  
**Subject:** RE: My trip to England

Hi Stu,

There is not an User Need as yet from NRO on graphite research, though we have been talking about it for the past 2 years.

However, our research plan (which was signed off by Jennifer and Brian) calls for active international cooperation and leverage of available international expertise, in a continuing manner, so that the exchange of technical safety information will input into graphite core component safety evaluation. Mike Mayfield and the staff (Don Carlson and Neil Ray) have been supportive of such international participation.

Instead of creating our own research, it is one of the graphite research plan strategy that the staff participate in critical national and international meetings and inform research of the developments pertinent to graphite assessment.

Hope this helps.

Srini.

---

**From:** Richards, Stuart  
**Sent:** Wednesday, March 23, 2011 4:40 PM  
**To:** Srinivasan, Makuteswara  
**Cc:** Case, Michael  
**Subject:** RE: My trip to England  
**Importance:** High

Srini

Is there a User Need or an action item from NGNP which this meeting will inform.

It will help if we can point to a task from NRO, which attendance at the meeting will help us

AG/921

complete.

Thanks  
Stu

---

**From:** Srinivasan, Makuteswara  
**Sent:** Wednesday, March 23, 2011 1:06 PM  
**To:** Richards, Stuart; Case, Michael  
**Subject:** My trip to England  
**Importance:** High

Hello, Stu and Mike,

I would appreciate your favorable consideration of the proposed trip next month to England to attend a meeting organized by the U.K. Nuclear Installations Inspectorate on graphite fracture.

**Venue:** The meeting is in Mansfield College, Oxford University, London. England.

**Dates:** April 11 -13, 2011.

**Organizer:** The meeting is organized by Nuclear Installations Inspectorate (HSE) and EdF Energy, the operator of British AGRs.

**Meeting Objective:** The purpose of this meeting is to gather selected experts from around the world (a dozen or so), and establish an understanding of the scope of the problem related to graphite fracture in high temperature gas cooled reactors. the work that is already in place (do we understand what each is doing and why?) and complete a Gap analysis to see where we need to go next.

**My Role:** I have been invited to participate as an expert in graphite and ceramic fracture. I will convey the regulatory and safety implications of fracture in graphite core components in terms of the overall safety risk and exploration of potential compensatory measures as well as inservice inspection procedures and proactive periodic graphite performance assessment by core monitoring. Particularly, I will bring to focus the current ASME Graphite Core Component (GCC) design criteria, and explore the sufficiency of design margin with the experts. I will also challenge the experts at this meeting aspects related to future consideration in research of potential severe accident hazards, such as earthquake in cracked graphite core components.

**Benefit to NRC:** NRC staff will exchange of technical safety information and potential regulatory issues related to cracked graphite components in HTGR with international nuclear graphite reactor experts. The outcome of this meeting will aid NRC's future research planning. The staff will provide information on specific data needs, such as for example dynamic loading situations, and encourage future research planners to conduct research to provide experimental data and models, which will address technical safety issues related to graphite core performance. The expected outcome will

provide technical basis information for formulating staff position, interim staff guidance development, and regulatory guide development.

Please let me know if you need any additional information.

Thanks.

Srini.

**From:** [Coe, Doug](#)  
**To:** [Lois, Erasmia](#); [Xing, Jing](#)  
**Cc:** [Coyne, Kevin](#)  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011  
**Date:** Thursday, March 24, 2011 8:04:00 AM

---

Thanks Erasmia.

Was there also a role for us on Apr 8 (supporting DI&C human factors) ACRS meeting?

Do we still have any ACRS meeting for us to support on Apr 22?

---

**From:** Lois, Erasmia  
**Sent:** Wednesday, March 23, 2011 11:55 AM  
**To:** Lai, John  
**Cc:** Gareth W. Parry; Forester, John A; Hendrickson, Stacey M Langfit; Groth, Katrina; 'Ali Mosleh'; 'Dana Kelly'; 'Martin.Sattison@inl.gov'; April Whaley; 'Johanna H Oxstrand'; Ronald Laurids Boring; Susan E. Cooper; Peters, Sean; Coe, Doug; Xing, Jing; Chang, James; Shen, Song-hua; Coyne, Kevin; Jeff Julius  
**Subject:** draft agenda for the ACRS Subcommittee meeting, April 20, 2011

John:

Attached is the draft agenda for the Subcommittee meeting on HRA, April 20, 2011.

Would it be possible to set-up a bridge number so that our contractors from national labs can join thru a conference? I believe we would need for about 10 lines.

Thank you very much

*Erasmia Lois, PhD*  
Senior Reliability and Risk Analyst  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission  
tel: +301-251-7573  
[Erasmia.Lois@nrc.gov](mailto:Erasmia.Lois@nrc.gov)

AG/922

**From:** [Markley, Anthony](#)  
**To:** [Case, Michael](#)  
**Cc:** [Helton, Shana](#)  
**Subject:** RE: Agenda for Today's Meeting  
**Date:** Thursday, March 24, 2011 8:12:52 AM

---

Mike,

From yesterday's meeting, it appears that the biggest challenge will be making sure that affected regulatory guides are addressed and track in parallel development with the rulemaking. At this point, the rulemaking appears to be relatively straight forward in both content and complexity. The real issues appear to be with the regulatory guides. As I explained to the folks at the meeting yesterday, we are under instruction from the Commission that all guidance documents, e.g., regulatory guides, SRP, etc., must be issued coincident with the rulemaking. For some folks (RES), this seemed to be new information (just my impression).

I will put together a meeting summary to identify the issues and takeaways. You will be copied on this. I did spend a fair amount of time on Rulemaking 101, but overall, I thought this was a productive meeting.

Thanks for your support!

Tony Markley

---

**From:** Case, Michael  
**Sent:** Thursday, March 24, 2011 7:59 AM  
**To:** Markley, Anthony  
**Cc:** Helton, Shana  
**Subject:** RE: Agenda for Today's Meeting

Hi Tony. Sorry I couldn't make the meeting yesterday. How do you think it went from your end? I think I have some folks on my end that seem particularly motivated to help to get this rule done. If you have a focused task that they can do for you, let me know and we can probably get them to do it...

---

**From:** Markley, Anthony  
**Sent:** Wednesday, March 23, 2011 12:09 PM  
**To:** Rebstock, Paul; Kemper, William; McCausland, Jayne; Stattel, Richard; Rahn, David; Wilson, George; Sydnor, Russell; Mizuno, Geary; Aggarwal, Satish; Arndt, Steven; Santos, Daniel  
**Cc:** Case, Michael; Helton, Shana  
**Subject:** Agenda for Today's Meeting  
**Importance:** High

Please see the attached for the subject document. Looking forward to meeting with you today!

AG/923

**Kauffman, John**

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 8:16 AM  
**To:** Bensi, Michelle; Ibarra, Jose; Killian, Lauren; Lane, John; 'Mehdi Reisi Fard'; Perkins, Richard; Smith, April  
**Subject:** Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/25/2011. [eom]



## Kauffman, John

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 8:20 AM  
**To:** Graves, Herman; Pires, Jose  
**Subject:** IP SFP Seismic Reviews/Info  
**Attachments:** image001.gif

**Importance:** High

Herman, Jose,

New York State officials met with senior NRC officials earlier this week. One topic I have been asked to collect info and create talking points is:

The seismic ruggedness of spent fuel pools and when Indian Point Spent Fuel Pools had seismic evaluations. (GI-173, IPEEE review, licensing review, etc.) Of course, the more recent the better.

I was told that you prepared info on these topics for the Commission meeting earlier this week, or otherwise might have info or could point me in the right direction. Thanks in advance.



*John V. Kauffman*

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

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

**From:** [Williams, Shawn](#)  
**To:** [Cianci, Sandra](#)  
**Cc:** [Abu-Eid, Bobby](#); [Astwood, Heather](#); [Brach, Bill](#); [Camper, Larry](#); [Case, Michael](#); [Cook, John](#); [Cool, Donald](#); [Holahan, Vincent](#); [Lewis, Robert](#); [Rini, Brett](#); [Sampson, Michele](#); [Schwartzman, Jennifer](#); [Virgilio, Martin](#); [Weaver, Doug](#); [Williams, Shawn](#); [Rosales-Cooper, Cindy](#); [Diec, David](#)  
**Subject:** Action: Please schedule the 29th Pre-CSS meeting brief for May 10, 3-4:30pm  
**Date:** Thursday, March 24, 2011 8:26:16 AM

---

Hi Sandy,

Please schedule a meeting with Marty:

Date/Time: May 10, 3-4:30pm

Subject: Pre - 29<sup>th</sup> CSS Brief

Invitees: Invite everyone in the cc: line. (Includes the SSC Reps/TAs and IAEA Safety Standard coordinators for NRO, NRR, and NSIR )

Process:

As in the past, we will go through the agenda with the SSC Reps. leading the discussion on the agenda items that pertain to their SSC.

Thanks,  
Shawn Williams  
Executive Technical Assistant  
Office of the Executive Director for Operations  
301-415-1009

AG/926

**From:** Leeds, Eric  
**To:** Collins, Elmo; Howell, Art; Pederson, Cynthia; West, Steven; McCree, Victor; Wert, Leonard; Dean, Bill; Lew, David  
**Cc:** McNamara, Nancy  
**Subject:** FYI: Comm Team SitRep - 3/23  
**Date:** Thursday, March 24, 2011 8:28:00 AM  
**Attachments:** Material on Indian Point to be provided to New York State.msg

---

FYI – please see below and attached.

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

---

**From:** Nelson, Robert  
**Sent:** Thursday, March 24, 2011 7:49 AM  
**To:** Grobe, Jack; Boger, Bruce; LIA06 Hoc; Leeds, Eric; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Ferrell, Kimberly; Galloway, Melanie; Gitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Quay, Theodore; Ruland, William; Skeen, David; Thomas, Brian  
**Cc:** Meighan, Sean; Nguyen, Quynh; Nguyen, Quynh; Oesterle, Eric; Broaddus, Doug; Campbell, Stephen; Carlson, Robert; Chernoff, Harold; Kulesa, Gloria; Markley, Michael; Pascarelli, Robert; Salgado, Nancy; Simms, Sophonia; Wall, Scott  
**Subject:** FYI: Comm Team SitRep - 3/23

1. Posted 31 OPA-approved Qs & As to the NRR internal web site; informed regional POCs.
2. Initiated coordination with OPA to develop a more user friendly access to Qs & As. Will keep you advised as this initiative matures.
3. Completed screening of four additional potentially sensitive licensing actions resulting in normal processing for each.
4. Responded to a number of quick turn-around inquiries from OPA.
5. Kept OPA informed of all notifications received by licensees re: detection of I-131 in environmental sampling. We've been informed that NEI will take the industry lead on this topic rather than the individual licensees preparing press releases.
6. John Boska has prepared info for transmittal to NY State on how the leak in the Indian Point 2 spent fuel pool was addressed during license renewal (a 3/22 commitment – see attached). Eliot Brenner has approved. Awaiting Eric's concurrence.
7. Receiving increasing interest in SFPs.

NELSON

AG/927

Attachment Material on Indian Point to be provided to New\_1.msg (2560 Bytes) cannot be converted to PDF format.

**From:** [Gavrilas, Mirela](#)  
**To:** [Carpenter, Gene](#)  
**Cc:** [West, Stephanie](#); [Richards, Stuart](#); [Case, Michael](#)  
**Subject:** Re: Can you act again today, please? (Eom)  
**Date:** Thursday, March 24, 2011 8:32:02 AM

---

Nothing in particular. I'll call into a couple of teleconferences and if you need anything please email or call.

Thanks,  
M.

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

From: Carpenter, Gene  
To: Gavrilas, Mirela  
Sent: Thu Mar 24 08:09:43 2011  
Subject: RE: Can you act again today, please? (Eom)

No problem - anything I should be aware of or need to move?

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

From: Gavrilas, Mirela  
Sent: Thursday, March 24, 2011 08:09  
To: Carpenter, Gene  
Subject: Can you act again today, please? (Eom)

AG/928

**From:** FCW Daily  
**To:** Cass, Michael  
**Subject:** Do slackers get step raises? | Lawmaker pleads technology ignorance  
**Date:** Thursday, March 24, 2011 8:32:23 AM

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3/24/2011

### **Job performance has little effect on raises, step increases**

Federal pay freeze doesn't affect step raises, but new data shows that poor job performance is rarely a bar.

**Lawmakers need 'somebody to educate us' on wireless technologies, senator says**

**State lawmakers oppose open source for VA health records**

**Employee swap: OFPP contemplates exchange program**

**How can the government improve? Tell it.**

**E-government fund could be cut, group warns**

**A call for nominations: The FCW cartoon caption contest**

**Bill takes aim at retirement benefits**

### **Special Report: Mobile and Wireless**

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Tethering, the act of connecting a PC, laptop, or other mobile device to the Internet via a wireless carrier's network, can make telecommuting and travel easier, but there are security issues to consider, too.

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Two of the very technologies that make IT departments most nervous - cloud computing and mobile devices - can complement each other and reduce security risks. **Learn more.**

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In this informative whitepaper from Oracle, learn about these trends and how they are beginning to take effect, driving imbalances that are rippling through a number of talent markets. **Learn more.**

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**Wireless spectrum and the 'fifth technological revolution'**

**'BlackBerry PlayBook' in action: Some hands-on video time**

**Galaxy Tabs introduce device-level encryption to Android devices**

**CTIA Service of the Day: Mobility that works with any platform**

### **Register today for the ACT-IAC Small Business Conference, April 7th!**

This year's conference, ACT-IAC's fifth, provides a forum for small businesses to learn even more about how to take advantage of public sector opportunities to strengthen their companies, our economy, and our government. Register before April 6th to receive \$50 off.

**Register Now!**

### **In case you missed it**

**VA attacked for poor use of Facebook, other social media**

**DOD reconsiders the insourcing question**

**Cyber Command's strategy becomes more clear**

### **More resources**

AG/1929

Cloud computing can generate massive savings for agencies

If agencies carefully choose the right tactics at the right time for the right mission, they can reap significant financial savings with a move to cloud computing.

Best practices for tracking mobile devices

Strict written policies -- such as remotely erasing or disabling devices, frequent virus scans and mandatory password-protection -- help minimize risk should a device be lost.



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<a href="#">Public Sector - Data Analytics Manager - PricewaterhouseCoopers - VA</a>
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This message was sent to: [mjc@nrc.gov](mailto:mjc@nrc.gov)

**Beasley, Benjamin**

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 8:34 AM  
**To:** Stutzke, Martin  
**Subject:** Can you join me

in Doug's office for 10 or 15 minutes at 11:30 to discuss the multi-unit Pre-GI?



**Beasley, Benjamin**

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 8:35 AM  
**To:** Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Kauffman, John; Killian, Lauren; Lane, John; Perkins, Richard; Reisifard, Mehdi; Salomon, Arthur; Smith, April; Wegner, Mary  
**Subject:** Joint Branch Meeting Next Week

Please remember that we have the joint branch meeting with IOEB next Thursday and that you have material to prepare for that meeting.

Ben

AG/931

**From:** [Lois, Erasmia](#)  
**To:** [Coe, Doug](#); [Xing, Jing](#)  
**Cc:** [Coyne, Kevin](#)  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011  
**Date:** Thursday, March 24, 2011 8:42:38 AM

---

Hi Kevin

Regarding the ACRS meeting on April 8, I do not know. Jing may know. Also, as far as I know there is no ACRS meeting on April 22 related to our activities. It was moved from the 22nd to 20th.

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 8:05 AM  
**To:** Lois, Erasmia; Xing, Jing  
**Cc:** Coyne, Kevin  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011

Thanks Erasmia.

Was there also a role for us on Apr 8 (supporting DI&C human factors) ACRS meeting?  
Do we still have any ACRS meeting for us to support on Apr 22?

---

**From:** Lois, Erasmia  
**Sent:** Wednesday, March 23, 2011 11:55 AM  
**To:** Lai, John  
**Cc:** Gareth W. Parry; Forester, John A; Hendrickson, Stacey M Langfit; Groth, Katrina; 'Ali Mosleh'; 'Dana Kelly'; 'Martin.Sattison@inl.gov'; April Whaley; 'Johanna H Oxstrand'; Ronald Laurids Boring; Susan E. Cooper; Peters, Sean; Coe, Doug; Xing, Jing; Chang, James; Shen, Song-hua; Coyne, Kevin; Jeff Julius  
**Subject:** draft agenda for the ACRS Subcommittee meeting, April 20, 2011

John:

Attached is the draft agenda for the Subcommittee meeting on HRA, April 20, 2011.

Would it be possible to set-up a bridge number so that our contractors from national labs can join thru a conference? I believe we would need for about 10 lines.

Thank you very much

*Erasmia Lois, PhD*  
Senior Reliability and Risk Analyst  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission  
tel: +301-251-7573  
[Erasmia.Lois@nrc.gov](mailto:Erasmia.Lois@nrc.gov)

AG/932

**From:** West, Stephanie  
**To:** RES DE CMB; Flory, Shirley; Veltri, Debra  
**Cc:** Case, Michael; Richards, Stuart; Rivera-Lugo, Richard  
**Subject:** Delegation of Authority - Gene Carpenter acting for Mirlea Gavrilas 3/24/11  
**Date:** Thursday, March 24, 2011 8:42:40 AM

---

If you have any questions, please contact Gene Carpenter @ 301-251-7632.

Stephanie West  
Administrative Assistant, RES/DE  
US Nuclear Regulatory Commission  
ph: 301-251-7619  
fax: 301-251-7425  
[stephanie.west@nrc.gov](mailto:stephanie.west@nrc.gov)

AG/933

**From:** [West, Stephanie](#)  
**To:** [Case, Michael](#)  
**Subject:** RE: Year End - Pending Awards Revised was executed at 3/23/2011 2:00:09 AM  
**Date:** Thursday, March 24, 2011 8:46:08 AM

---

Done.

Thank you,  
Stephanie West

---

**From:** Case, Michael  
**Sent:** Thursday, March 24, 2011 8:02 AM  
**To:** West, Stephanie  
**Subject:** FW: Year End - Pending Awards Revised was executed at 3/23/2011 2:00:09 AM

Please print in color.

---

**From:** Hurd, Sapna  
**Sent:** Wednesday, March 23, 2011 10:35 AM  
**To:** Hogan, Rosemary; Csontos, Aladar  
**Cc:** Case, Michael; Richards, Stuart  
**Subject:** FW: Year End - Pending Awards Revised was executed at 3/23/2011 2:00:09 AM

FYI...

Sapna Hurd  
Management Analyst  
Division of Engineering  
Office of Nuclear Regulatory Research  
U.S. NRC  
Ph: 301-251-7687  
5C04

---

**From:** Bamford, Lisa  
**Sent:** Wednesday, March 23, 2011 7:10 AM  
**To:** Shaffer, Sarah; Bowlin, Elizabeth; Hurd, Sapna; Davis, Chon; Littlejohn, Jennene; Walston, Chris  
**Cc:** Colon, Heriberto; Kardaras, Tom  
**Subject:** FW: Year End - Pending Awards Revised was executed at 3/23/2011 2:00:09 AM

This weeks update

---

**From:** [Chris.Fiotes@nrc.gov](mailto:Chris.Fiotes@nrc.gov) [mailto:[Chris.Fiotes@nrc.gov](mailto:Chris.Fiotes@nrc.gov)]  
**Sent:** Wednesday, March 23, 2011 2:01 AM  
**To:** Dhir, Neha; Grancorvitz, Teresa; Bamford, Lisa; Schofer, Maria; Barnes, Robin  
**Subject:** Year End - Pending Awards Revised was executed at 3/23/2011 2:00:09 AM

Attached is a list of pending RES awards. Please contact Sean McCoy or Tamar Katz for questions or concerns. Please note that this report list only all pending awards by HQ Program Offices whose their PR Actions Status is Active, their Action State is Accepted, Approved, Draft or Received.

AG/934

**From:** i360Gov\_Daily\_Download  
**To:** Leeds\_Eric  
**Subject:** Libya questions swirl as Obama comes home  
**Date:** Thursday, March 24, 2011 8:55:32 AM

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## i360Gov Daily Download

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### Federal Policy & Business

#### Budget pain already taking a toll

*CNN:* NEW YORK (CNNMoney) -- After six months of coping with stop-gap funding measures, federal agencies have quietly started instituting hiring freezes, withholding grants and curtailing work on critical projects.

The uncertainty caused by Congress' inability to pass a budget cuts across many corners of the government. [MORE](#)

#### Libya questions swirl as Obama comes home

*CNN:* President Barack Obama is returning home to a firestorm of criticism over his handling of the crisis in Libya and mounting calls for a clearer explanation of U.S. policy in the war-torn North African nation.

The president, who just wrapped up a five-day trip to Latin America, has insisted that the goal of the U.N.-sanctioned military mission is strictly to prevent a humanitarian crisis. Specifically, the mission is meant to prevent a slaughter of Libyan rebels and other civilians by forces loyal to strongman Moammar Gadhafi. [MORE](#)

#### IRS help centers not in all the right places

*USA Today:* While the IRS has more than 400 tax assistance centers around the USA, more than a third of taxpayers have to travel at least half an hour to find one, a new report from the Treasury Department's Inspector General for Tax Administration says.

The report said the location of the centers, intended to provide a way for taxpayers to get in-person help from the IRS, hasn't kept up with geographic and demographic shifts in the U.S. While 35% of taxpayers have to travel 30 minutes or more to find a center, the report said, 28% of the population lives within 30 minutes of more than one IRS office. [MORE](#)

#### Justices debate rights of juveniles

*USA Today:* WASHINGTON — How easy is it for police or judges to put themselves in the mind of a 13-year-old student whom an officer pulled from class and took to a closed room for questioning about stolen goods?

AG / 935

In an important test of the constitutional rights of juveniles at the Supreme Court on Wednesday, the question was whether law enforcement officials would know if the youth felt free to leave the room or not respond to questions. [MORE](#)

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## Government IT

### **SCADA vulnerabilities prompt US government warning**

*CIO:* IDG News Service — A flurry of software vulnerabilities found in a variety of industrial control systems has prompted vendors to begin developing patches, following a warning by the U.S. government's Computer Emergency Readiness Team (CERT).

The security problems were found in SCADA (supervisory control and data acquisition) systems made by Siemens, Iconics, 7-Technologies and Datac by researcher Luigi Auriemma, whose findings appeared on his website and the vulnerability site Bugtraq. [MORE](#)

### **Federal Cyber Attacks Rose 39% In 2010**

*InformationWeek:* Cyber attacks on the federal government increased in 2010 over the previous year, even though the total number of cybersecurity incidents was down overall, according to a new report from the Office of Management and Budget (OMB).

There were 41,776 reported cyber incidents of malicious intent in the federal network in 2010 out of a total 107,439 reported to the United States Computer Emergency Readiness Team (US-CERT), according to the OMB's fiscal year 2010 report on federal implementation of the Federal Information Security Management Act (FISMA). [MORE](#)

### **Wyden seeks to clarify when government can track mobile data**

*Nextgov:* Forthcoming proposed restrictions on government's ability to track the location of possible criminal suspects through mobile devices could have the unintended consequence of deterring federal authorities from legally using such location-based data to save lives, say law enforcement technology experts. [MORE](#)

### **"MyTSA" wins best government mobile app award**

*Government Security News:* The Transportation Security Administration's traveler information mobile app won an award for Best Government Mobile App from the American Council for Technology and Industry Advisory Council (ACT-IAC).

The app, which allows users to check airport status, what items they can bring onboard aircraft and security questions, took the prize at ACT-IAC's 9th Annual Excellence.Gov Awards event in Washington, DC, in mid-March, said the agency on its Web blog page on March 22. [MORE](#)

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## Special Reports & Whitepapers

### **i-Future: Revisiting Information Sharing, Exchange and Interoperability**

Although some federal, state and local government entities have used information exchanges for years, those agencies and the nation as a whole are still in the very early days of standardizing data and sending it across networks of multiple partners.

The benefits that information exchange initiatives can bring to government at every level - federal, state and local - are substantial and can be seen in the successful examples of the Defense Logistics Agency, the Indiana State Department of Health and in the state of Colorado.

[Download](#) this complimentary whitepaper to learn more.

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### **Best Practices Guide: Microsoft Exchange 2010 on VMware**

This guide provides best practice guidelines for deploying Exchange Server 2010 on vSphere. The recommendations in this guide are not specific to any particular set of hardware or to the size and scope of any particular Exchange implementation. The examples and considerations in this document provide guidance only and do not represent strict design requirements, as the flexibility of Exchange Server 2010 on vSphere allows for a wide variety of valid configurations.

[Download](#) this complimentary guide.

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### **From Datacenter Consolidation to the Cloud**

An i360Gov Special Report.

The marching orders have been delivered. By 2015, federal IT organizations have been told they must consolidate datacenters by 40%, for an overall reduction of 800 datacenters. Trouble is, how do agencies get there from here? Download this i360Gov special report to learn more.

[Download](#) this complimentary special report.

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### **Best Practices for Achieving Migration to a Cloud Model**

An i360Gov special report: Recent initiatives, including the just-published Federal Cloud Computing Strategy, the 25-point Implementation Plan to Reform Federal IT Management published in December and its accompanying 'Cloud First' acquisition strategy are forcing federal agencies to figure out how to quickly 'get their IT operations in shape' to embrace cloud computing.

This i360Gov's special report explores the steps agencies should take to aid their migration to cloud-based operations.

[Download](#) special report. Sponsored by: DLT Solutions, NetApp, and Red Hat

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### **i360Gov Proof Points: Trends in Digital Archiving of Legislative Records**

Despite the availability of electronic records preservation solutions, nearly 60% of our survey's respondents said they still don't possess an easily accessible electronic repository of all state laws, present and past, hindering each organization's ability to provide advanced web-based or online constituent services.

[Download](#) this special report to see the full results of this study. Sponsored by: EMC

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### **Energy Efficient Cooling for Data Centers: A Close-Coupled Row Solution**

Abstract: The trend of increasing heat densities in data centers has held consistent with advances in computing technology for many years. As power density increased, it became evident that the degree of difficulty in cooling these higher power loads was also increasing. In recent years, traditional cooling system design has proven inadequate to remove concentrated heat loads (20 kW per rack and higher). This has driven an architectural shift in data center cooling. The advent of a newer cooling architecture designed for these higher densities has brought with it increased efficiencies for the data center. This article discusses

the efficiency benefits of row-based cooling compared to two other common cooling architectures.

Download the complimentary [report](#).

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### **Guide for Reducing Data Center Physical Infrastructure Energy Consumption in Federal Data Centers**

Abstract: In an effort to create a clean energy economy, recent US presidents and congress have issued a series of legislation and executive orders requiring federal agencies to increase energy efficiency and reduce carbon emissions in government facilities. Vivek Kundra, Federal Chief Information Officer, is supporting that effort by establishing a Federal Data Center Consolidation Initiative to help reduce energy consumption in over 1, 100 Federal data centers. US Federal data center managers are on a timeline to respond with their final consolidation plan. This paper analyzes the implication of these mandates and offers recommendations for how to improve energy efficiency in Federal data centers. This paper is written for a US-only audience.

Download the complimentary [report](#).

Sponsored by: APC / Schneider Electric

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## **Government Healthcare - Policy & IT**

### **States face up to "new reality" of U.S. healthcare**

*Reuters:* Chris Molendorp, a Missouri state legislator, actively opposed the federal healthcare plan, even supporting a ballot measure rebuking the massive changes to the U.S. health industry.

Recently, however, he has had a slight change of heart.

"I didn't want the federal healthcare law. I lost. Let's be adult about it," Molendorp said about his decision to sponsor legislation for creating an exchange for buying insurance in what is known as the "Show Me" state. "If the federal healthcare bill is not struck down by the Supreme Court it will be our new reality." [MORE](#)

### **Some states advance IT for health insurance exchanges**

*Government Health IT:* Kansas, Maryland and other states are beginning to assemble the information technology building blocks needed to create their health insurance exchanges called for under the year-old health reform law.

Kansas has extended its new eligibility system for its Medicaid and Children's Health Insurance Program (CHIP) and is integrating it with the state health insurance exchange, said Sandy Praeger, Kansas state insurance commissioner. [MORE](#)

### **Feds may act if Florida stalls on health-reform law**

*Orlando Sentinel:* WASHINGTON — If Florida leaders refuse to carry out the new national health-care law, Uncle Sam is prepared to take charge on behalf of the state's consumers.

One year after President Barack Obama signed the health-care overhaul into law, federal officials are urging Florida and other reluctant states to shape it to meet their needs and to take advantage of millions of dollars of federal planning grants. Failure to participate, officials warned this week, means a loss of state control. [MORE](#)

### **Denied insurance under new health-care law? File an appeal, GAO says**



*The Washington Post*: Say what you want about health-care reform, but as with many other pieces of legislation that have been passed during the country's recent economic hard times, we are getting some much-needed transparency on a number of personal finance issues.

The Government Accountability Office, the investigative arm of Congress, has been busy fulfilling the requirements of these laws, which call for reports on various concerns from credit and debit card fees to the advice that workers are receiving about their 401(k) plans to application and coverage-denial rates for private health insurance. In fact, you might want to bookmark the GAO Web site ([www.gao.gov](http://www.gao.gov)) so you can periodically check what the agency has to say about these items that directly affect your finances. [MORE](#)

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**More healthcare policy/technology news & analysis at [i360GovHealthcare.com](http://i360GovHealthcare.com)**

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## Webinars

### **The Records Management Challenge: A Strategy for Paper Records**

Wednesday, March 30, 2011 at 2:00 PM Eastern

Is your agency plagued with paper documents and manual processes associated with managing government paper records? Attend this i360Gov educational webinar and learn how leading agencies have modernized their paper-based process and the benefits they are realizing.

Our panelists, including Ray Miller, formerly with the NY State Dept of Health, will discuss how the process of managing paper records has evolved, what new techniques and technologies governments can employ to modernize this process, and how these improvements can impact your agency's bottom line. [Register Now](#) (no cost)

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### **i360Gov Proof Points: How to Achieve Private Cloud Formation**

To comply with federal mandates, agencies are being challenged to invest in cloud computing, to reduce IT costs and streamline operations. Despite the benefits of the cloud, many questions remain about security and the privacy of sensitive or classified information. Industry observers predict the strong push toward cloud-based services will lead to a rise in private cloud implementations in the coming year.

This i360Gov educational webinar and corresponding special report will highlight what government organizations should do to ensure security, while still adhering to federal cloud-focused mandates. The tools, assistance, guidance and advice of industry experts will be incorporated into the corresponding special report, called Private Cloud Formations, which will hone in on how this technological alternative may work best for a wide range of government applications. [Download Now](#) (no cost)

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### **i360Gov Proof Points: Trends in Digital Archiving of Legislative Records**

Despite the availability of electronic records preservation solutions, nearly 60% of our survey's respondents said they still don't possess an easily accessible electronic repository of all state laws, present and past, hindering each organization's ability to provide advanced web-based or online constituent services.

Join this complimentary educational webinar to see the full results of this study presented along with expert analysis. You will also hear experts present case studies highlighting the latest initiatives and best practice advice for building and maintaining electronic repositories.

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### **Leveraging Technology to Fight Budget Difficulties in State & Local Governments**

Under the gun to provide more and better services while striving to manage shrinking resources, state and local governments are seemingly being squeezed from multiple directions. Luckily there are some technological tools available to help, such as web-based self services and desktop virtualization, among others.

Join i360Gov's panel of government experts for this live event as we highlight the solutions that best aid these government organizations in closing budget deficit gaps while delivering greater agility to constituent-facing services. **[View Now](#)** (no cost!)

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### **How server and datacenter consolidation can simplify and maximize cloud computing success**

Many Federal agencies are already pursuing consolidation and cloud computing initiatives, but OMB's 25-point mandate for government-wide IT reform has accelerated things significantly. Would you like to hear about a proven path forward to datacenter consolidation, transforming to a cloud-ready infrastructure and ultimately being able to adopt that cloud-first policy?

Join i360Gov for a live webinar on datacenter consolidation and how to build your cloud. Virtualization is a critical first step in consolidation and cloud computing, and with it, Federal agencies can leverage proven strategies to:

- Increase datacenter services, while decreasing infrastructure
- Build a scalable cloud infrastructure
- Integrate consolidation and cloud plans and maximize resources
- Leverage existing infrastructure to complete the transformation

Our panel of subject matter experts includes **Anil Karmel** (Los Alamos Labs) and **Doug Bourgeois**, formerly with U.S. Department of the Interior and the U.S. Patent and Trademark Office. **[View Now](#)**

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## **Energy - Policy & Technology**

### **More U.S. states find traces of radiation from Japan**

*CNN*: Colorado and Oregon have joined several other Western states in reporting trace amounts of radioactive particles that have likely drifted about 5,000 miles from a quake and tsunami-

damaged nuclear power plant in Japan, officials say.

But, on a portion of its website dedicated to tracking such radiation, the Environmental Protection Agency noted Wednesday that these and other readings "show typical fluctuation in background radiation levels" and -- thus far -- "are far below levels of concern." [MORE](#)

#### **Deal would transfer Mont. coal tracts to Texas company, allow tribe to consolidate reserves**

*The Washington Post:* LAME DEER, Mont. — The federal government would give an estimated 145 million tons of publicly owned coal to a Texas company under an exchange backed by members of Congress that calls for future royalties and other coal reserves to go to the Northern Cheyenne Tribe.

The exchange is meant to address a longstanding claim by the southeastern Montana Indian tribe that its mineral rights were mistakenly given to a private company more than a century ago. [MORE](#)

#### **Canada nuclear plan gets environmental OK**

*Reuters:* Canadian regulators see no big environmental impact from a plan to expand a nuclear power station 70 km (45 miles) from Canada's biggest city, Toronto, but Greenpeace activists halted a second day of hearings with pleas for a delay while Japan unravels its nuclear mess.

The government-appointed joint review panel hearings into adding up to 4,800 megawatts of electrical capacity to the four-reactor Darlington nuclear power plant are scheduled to last until April 8. However, officials said extra days might be possible to allow more time to examine the accident at Japan's Fukushima reactor. [MORE](#)

#### **Building a Better Reactor**

*Bloomberg Business Week:* The basic design of nuclear power plants hasn't changed since the 1950s. Models on the drawing boards would be far safer. The irony? Accidents in the old plants could kill support for new ones

Three Mile Island, Chernobyl, Fukushima. First the accident, then the predictable allegations in the postmortem: The design was flawed. Inspections were inadequate. Lines of defense crumbled, and reliable backups proved unreliable. Planners lacked the imagination or willpower to prepare for the very worst. [MORE](#)

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## **Defense / Intelligence / Homeland Security - Policy & Technology**

#### **U.S. spending on military operations in Libya drains Pentagon**

*The Washington Post:* The U.S. military operations in Libya will cost hundreds of millions of dollars and force Congress to seek help next week for the cash-strapped Pentagon, which is operating on a short-term funding resolution.

Sen. Carl Levin (D-Mich.), chairman of the Senate Armed Services Committee, said Wednesday that he had asked the Defense Department for an accurate estimate of the cost of the mission since the ballpark numbers being circulated, including one of nearly \$1 billion, seemed too high. [MORE](#)

#### **U.S. Army, Navy Near JHSV Deal**

*Defense News:* The U.S. Army is nearing a deal to transfer its Joint High Speed Vessels (JHSVs)

to the U.S. Navy to operate and maintain.

"I think Adm. [Gary Roughead, chief of naval operations] and I are in the final throes here of working out the transfer of the Joint High Speed Vessel, and I think we'll get that done before I leave," Gen. George Casey, chief of staff of the Army, said March 22. He is scheduled to retire in April, when he will be replaced by Gen. Martin Dempsey. [MORE](#)

### **Allies Pressure Qaddafi Forces as U.S. Seeks NATO Command**

*Bloomberg Business Week:* (Bloomberg) -- U.S. and allied warplanes carried out further strikes against Muammar Qaddafi's ground forces as coalition nations neared agreement to have NATO assume operational control.

Libyan government forces increased their attacks on cities, killing 16 people yesterday in Misrata in the west of the country and six in the nearby coastal town of Zentan, opposition spokesman Abdulhafid Ghoga said at a news conference in Benghazi. Later, the Associated Press reported that tanks were pulling back from Misrata. [MORE](#)

### **U.S. wants allies to play larger role in Libya**

*Air Force Times:* WASHINGTON — The United States turned up the pressure on quarreling NATO allies to take command of the air war in Libya on Wednesday, suggesting the U.S. could step away from its leadership role as soon as this weekend, even with the conflict's outcome in doubt.

In Congress, meanwhile, the Republican speaker of the House demanded that President Obama quickly spell out the nation's precise goals in Libya. White House officials said Obama would keep updating the American people and a formal address was possible. Secretary of State Hillary Rodham Clinton said order could be resolved quickly — if Libyan leader Moammar Gadhafi would just quit. [MORE](#)

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## **State & Local Government - Policy & Technology**

### **Eliminating tax breaks: a path to budget compromise?**

*Stateline:* From the moment it became clear who the state's new governor and legislative leaders would be, Minnesota seemed to be heading for political stalemate. Mark Dayton, the newly elected Democratic governor, campaigned on a promise to raise taxes on the wealthy as a way of closing a massive budget deficit. The new Republican majorities in the House of Representatives and Senate were elected promising not to raise any taxes on anybody for any reason. [MORE](#)

### **Say What?**

"No man will ever bring out of the Presidency the reputation which carries him into it. . . . To myself, personally, it brings nothing but increasing drudgery and daily loss of friends."

—Thomas Jefferson

### **CA: Jerry Brown Sees 'Bears in Forest' as Defeat Looms for Tax Plan**

*Bloomberg Business Week:* (Bloomberg) -- California Governor Jerry Brown faces his first legislative defeat this year as he races against time to persuade at least four Republican lawmakers to support a June ballot measure on extending tax increases.

Brown, a 72-year-old Democrat elected in November, has been lobbying Republican legislators

to allow a statewide vote on extending \$9.3 billion in temporary tax and fee increases, to no avail. The governor said yesterday that he remains hopeful. [MORE](#)

#### **OR: Open Data Portal Launched in Oregon**

*Government Technology:* The new Data.Oregon.gov website “lets visitors interact with state records, create their own charts, graphs, calendars and maps, and save them online,” the Department of Administrative Services announced Tuesday, March 22. Users can also suggest data sets that should be uploaded to the portal.

“You don’t need to be a technology expert to use Data.Oregon.gov,” said Kris Kautz, the department’s acting director. “The site is easy to use and very flexible. Countless Oregonians have said they want more access to the information that state agencies collect, and this new resource gives them that access.” [MORE](#)

#### **CA: Some Calif. cities embrace immigration scrutiny**

*San Francisco Chronicle:* A city that has taken numerous steps to crack down on illegal immigration is now joining a string of Southern California municipalities that are signing up to tap a federal database aimed at tighter scrutiny of employees' immigration status.

Escondido's measure is modest compared to how others have embraced the free E-Verify tool, an online federal database now used voluntarily by employers nationwide. The north San Diego suburb's City Council voted 4-1 Wednesday to require all city contractors to use the screening for new hires and earlier this month began doing the same for all new city employees earlier this month. [MORE](#)

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**More State & Local Government Policy & IT News & Analysis at [i360SLGov.com](http://i360SLGov.com)**

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**From:** OPA Resource  
**To:** Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Boliwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Hanev, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitylmg, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffrey; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason  
**Subject:** Press Release: NRC Seeks Comment on Proposed Rule to Certify GE-Hitachi ESBWR Reactor Design  
**Date:** Thursday, March 24, 2011 9:00:13 AM  
**Attachments:** 11-056.docx

---

Attached press release to be released in approximately one hour.

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

AG/936



# NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION

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

No. 11-056

March 24, 2011

## NRC SEEKS COMMENT ON PROPOSED RULE TO CERTIFY GE-HITACHI ESBWR REACTOR DESIGN

The U.S. Nuclear Regulatory Commission is seeking comments on a proposed rule that would certify GE-Hitachi Nuclear Energy's Economic Simplified Boiling-Water Reactor (ESBWR) design for use in the United States.

The design certification process provides for early public participation and resolution of safety issues for proposed reactor designs. NRC certification, in the form of a final rule, means the design meets the agency's applicable safety requirements. If an applicant for a nuclear power plant license references a certified design, the applicant need not submit safety information for the design. Instead, the license application and the NRC's safety review would address the remaining safety issues for the proposed nuclear power plant.

The design to be certified is fully described in a "design control document," which would be approved (incorporated by reference) in the design certification rule. The NRC has also prepared an environmental assessment of the design to support the rulemaking. The environmental assessment discusses possible design alternatives that could be included in the design certification to mitigate potential severe accidents. The NRC invites public comments on the design control document and environmental assessment as part of this rulemaking. These documents are available through the Federal e-Rulemaking web site at <http://www.regulations.gov> by searching under Docket ID **NRC-2010-0135**.

GE-Hitachi Nuclear Energy submitted an application for certification of the ESBWR standard plant design on Aug. 24, 2005. The ESBWR is a 1,594 megawatt electric, natural circulation reactor. The ESBWR includes passive safety features that would cool down the reactor after an accident without the need for human intervention. These passive features include:

- enhanced natural circulation via a taller reactor vessel, a shorter core and improved water flow through the vessel;
- an isolation condenser system to control water levels and remove decay heat while the reactor is pressurized, and;
- a gravity-driven cooling system to maintain water levels when the reactor pressure has dropped.

The NRC conducted an extensive technical evaluation of the design and issued a final safety evaluation report (FSER) in March 2011. The FSER provides the basis for the design certification now being considered for addition to NRC's regulations at 10 CFR Part 52. The FSER is available through <http://www.regulations.gov> by searching under Docket ID **NRC-2010-0135**.

The NRC is currently reviewing a Combined License application, referencing the ESBWR design certification application, from the Detroit Edison Company for Fermi Unit 3. The NRC has certified four other standard reactor designs: the Advanced Boiling Water Reactor (ABWR), System 80+, AP600, and AP1000, and the agency has published proposed rules to amend the ABWR and the AP1000.

The public can view the NRC's Federal Register notice at <http://edocket.access.gpo.gov/2011/pdf/2011-6839.pdf>. Comments may be submitted for 75 days following publication. Comments may be submitted via <http://www.regulations.gov> under Docket ID **NRC-2010-0135**; by e-mail to [Rulemaking.Comments@nrc.gov](mailto:Rulemaking.Comments@nrc.gov); by mail to Secretary, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001, ATTN: Rulemakings and Adjudications Staff; or by fax to Secretary, U.S. Nuclear Regulatory Commission, at 301-492-3466.

More information about the ESBWR design review can be found on the NRC's website at <http://www.nrc.gov/reactors/new-reactors/design-cert/esbwr.html>.

###

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



**From:** [Application Security, Inc.](#)  
**To:** [Leeds, Eric](#)  
**Subject:** Please Join Our Upcoming Webinar: Database Security & The OMB Mandate for Continuous Monitoring  
**Date:** Thursday, March 24, 2011 9:06:04 AM



## Please Join Our Upcoming Webinar: Database Security & The OMB Mandate for Continuous Monitoring

Dear Eric,

### Please Join Our Upcoming Webinar: Database Security & The OMB Mandate for Continuous Monitoring

**Tuesday, March 29, 2011 1:00 PM - 2:00 PM EDT**



In 2010 the Office of Management and Budget (OMB) enacted radical changes in Federal cybersecurity strategy. The goal of this initiative is to drive Federal agencies to implement an automated approach that is risk-based, cost-effective and provides for continuous security. Many Federal agencies have taken a network centric approach of locking down their end points. To insure continuous security, Federal agencies need to adopt a defense in depth strategy and lock down their databases as well. In this webinar Telos and Application Security will present a vision for automating database security, highlighted with real-case deployments.

To register for this webinar go to:  
<https://www1.gotomeeting.com/register/811343385>

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**From:** [Rivera-Lugo, Richard](#)  
**To:** [Richards, Stuart](#)  
**Cc:** [Case, Michael](#)  
**Subject:** RE: SPO Input  
**Date:** Thursday, March 24, 2011 9:09:31 AM

---

That document was just to compile all the input from DE, and discuss it with you and Mike before submitting to Brett. I will add your edits before I upload it to RES SPO file.

Also, remember that there will be a meeting next Wednesday @ 1:30 pm to review all inputs for the SPO Report.

Thanks for the quick review!

Richie

---

**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 9:03 AM  
**To:** Rivera-Lugo, Richard  
**Cc:** Case, Michael  
**Subject:** SPO Input

Richie

I reviewed the SPO input and provided some edits.

Generally, I propose to eliminate or consolidate a number of items, based on experience from past years on what eventually makes the cut.

I'll leave my mark-up with Mike, so we can provide one set of comments between the two of us.

Thanks  
Stu

AG/938

**From:** [Coe, Doug](#)  
**To:** [McNamara, Nancy](#)  
**Subject:** RE: Quick Logistics on Wed Governor Meeting.  
**Date:** Thursday, March 24, 2011 9:29:00 AM

---

No – haven't heard a thing. They are probably very comfortable with Ben, as am I. We just need to keep in mind that NRR has the lead right now for next step actions on GI199 (i.e. the generic letter).  
Doug

---

**From:** McNamara, Nancy  
**Sent:** Thursday, March 24, 2011 9:13 AM  
**To:** Coe, Doug  
**Subject:** RE: Quick Logistics on Wed Governor Meeting.

Got it. thanks. Did you hear a response with respect to NRR wanting to be at the meeting?

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 9:12 AM  
**To:** McNamara, Nancy  
**Cc:** Beasley, Benjamin; Hiland, Patrick; McGinty, Tim; Correia, Richard; Schmidt, Wayne  
**Subject:** RE: Quick Logistics on Wed Governor Meeting.

Hi Nancy –

Also please keep NRR in the info loop on agenda and followup (if any). Pat Hiland and Tim McGinty are the applicable Division Directors.

Thanks,  
Doug

---

**From:** McNamara, Nancy  
**Sent:** Thursday, March 24, 2011 8:57 AM  
**To:** Beasley, Benjamin; Schmidt, Wayne  
**Cc:** Coe, Doug  
**Subject:** Quick Logistics on Wed Governor Meeting.

Ben/Wayne, the meeting with Governor Deval Patrick is set. Here are some quick logistics so you can start your travel arrangements. I'll put a formal itinerary and prep book out on Monday.

The meeting is scheduled for Wednesday, March 30 from 2-3 p.m. The focus is Pilgrim. Topics will be seismic study, fuel pools and NRC activities going forward. We do not expect anything on emergency preparedness which is why we are not including Seabrook and VY in the discussion.

Bill is flying and I'm taking the train. If you can get flights that get you into the airport around 11:30 am that would be good. The Massachusetts SLO will pick you up at the airport between 11:45-12:00. The capitol building is 10 minutes from the airport.

There will be a prep meeting on Tuesday, March 29 from 11:00-12:00 am in the executive conference room. I will provide a bridge for HQs to participate. I'll have the materials for

AG/939

that meeting out on Monday.

Thanks for supporting this initiative.  
Nancy

**From:** [Norwich University School of Graduate and Continuing Studies](#)  
**To:** [Case, Michael](#)  
**Subject:** A Pulse on the State of Virtualization and Cloud Computing  
**Date:** Thursday, March 24, 2011 9:31:09 AM

---

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Dear Colleague:

We would greatly value your expertise in a very important survey that will take less than 10 minutes to complete. Norwich University's School of Graduate and Continuing Studies has been commissioned to conduct a study on virtualization and cloud computing within federal, state and local government, and higher education. The survey is being sponsored by the public sector division of a publicly-traded, American software firm.\*

As a token of appreciation, our client will donate \$5 per completed survey (up to \$3000) to USO Metro, a private, nonprofit organization whose mission is to support the troops by providing morale, welfare and recreation-type services to our men and women in uniform. Your opinions and participation will remain completely confidential, and all responses will be kept anonymous and reported in the aggregate.

To begin the survey, please click on the following link (or copy the entire link and paste it into your Internet browser): <http://www.1105direct.com/t.do?id=7443354:39442>

Please don't hesitate to contact Melissa Marcello, the Study Director, at [mmarcel1@norwich.edu](mailto:mmarcel1@norwich.edu), or by telephone at 802-485-2226 if you have any questions.

Thank you for your participation,

Melissa Marcello  
Director of Marketing and Research  
School of Graduate and Continuing Studies  
Norwich University

\*So as not to bias survey responses, the name of the company sponsoring the survey will not be acknowledged until the end of the survey.

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**From:** [Coe, Doug](#)  
**To:** [Cady, Ralph](#)  
**Cc:** [Ott, William](#); [Coyne, Kevin](#)  
**Subject:** RE: Researcher Piece on Ground Water  
**Date:** Thursday, March 24, 2011 9:32:00 AM

---

Thanks Ralph, -

I didn't have any specific content comments, so if you have made mods that make it a bit more relevant and understandable to the general NRC reader, I'm fine. That's all I was after. Please go ahead and give it Amy.

Thanks again for filling in on short notice.

Doug

---

**From:** Cady, Ralph  
**Sent:** Thursday, March 24, 2011 9:23 AM  
**To:** Coe, Doug  
**Subject:** RE: Researcher Piece on Ground Water

Doug,

I hope this is closer to what you'd like to see. I consciously avoided changing things that Tom had written too much. I haven't submitted this to Amy just yet so I can respond to your feedback.

Ralph

---

**From:** Coe, Doug  
**Sent:** Tuesday, March 22, 2011 3:11 PM  
**To:** Cady, Ralph  
**Cc:** Ott, William  
**Subject:** RE: Researcher Piece on Ground Water

Yes thanks very much Ralph. I thought Tom's first draft a bit dry for general audiences. The first few sentences should try to give the reader a general sense of why this is important for them, for the NRC, and for our public. In point of fact, the article could probably go out as written, but I'd like to do a little bit better.

Given that Tom is dealing with a very tough family issue right now, I really appreciate your offering to help out on this.

Thanks,

Doug

---

**From:** Cady, Ralph  
**Sent:** Tuesday, March 22, 2011 10:27 AM  
**To:** Coe, Doug  
**Subject:** Researcher Piece on Ground Water

Doug,

I just got a phone call from Tom regarding the material on ground water that is being prepared for the "Researcher". He gave me the impression that you thought it lacks

AG/941



appeal to a general audience; Tom asked me to look at the piece with the aim of addressing that perceived concern. Have I captured the problem adequately and shall I proceed to try to address it?

I don't have the latest version, so if I do proceed, I'll contact Amy Bonaccorso for the latest and greatest.

Thanks,  
Ralph

**From:** [Ibarra, Jose](#)  
**To:** [Barnes, Valerie](#); [Beasley, Benjamin](#); [Coyne, Kevin](#); [Demoss, Gary](#); [Nicholson, Thomas](#); [Ott, William](#); [Peters, Sean](#); [Salley, MarkHenry](#); [Siu, Nathan](#); [Stutzke, Martin](#)  
**Cc:** [Correia, Richard](#); [Coe, Doug](#)  
**Subject:** RE: mid-year input for FO staff  
**Date:** Thursday, March 24, 2011 9:50:09 AM

---

All,  
Reminder that Doug wants me to collect input today for FO staff mid-year appraisal.  
Thanks. Jose

---

**From:** Coe, Doug  
**Sent:** Wednesday, March 23, 2011 7:41 AM  
**To:** Barnes, Valerie; Beasley, Benjamin; Coyne, Kevin; Demoss, Gary; Nicholson, Thomas; Ott, William; Peters, Sean; Salley, MarkHenry; Siu, Nathan; Stutzke, Martin  
**Cc:** Ibarra, Jose; Correia, Richard  
**Subject:** mid-year input for FO staff

DRA BCs/SLS,

In preparation for our mid-year review meeting on Friday, please provide a performance input on our TA, AAs (Carly and Jennene during 1<sup>st</sup> FY qtr, and Carolyn) and MAs (Millie, Jennene, and Sibel). Chon will not have had 120 days yet and I'll pass comments on Sibel to her new supervisor.

Please provide at least one input/example for each person to Jose Ibarra by COB Thursday.

Many thanks,  
Doug

-AG/942

## Murphy, Andrew

---

**From:** Richard W Harrison [rharriso@usgs.gov]  
**Sent:** Thursday, March 24, 2011 9:52 AM  
**To:** Murphy, Andrew  
**Subject:** RE: East Tennessee Seismic Zone

Andy, What is your mail address? Ya know, I'd choose Paris over Memphis myself.  
take care

**From:** "Murphy, Andrew" <Andrew.Murphy@nrc.gov>  
**To:** Richard W Harrison <rharriso@usgs.gov>  
**Date:** 03/24/2011 07:30 AM  
**Subject:** RE: East Tennessee Seismic Zone

---

Rich,

Thanks for understanding the hectic nature of the current situation. I will not be at this year's SSA – an annual meeting in Paris the previous week. I will read the report when it gets here; please email me next week to check on a meeting time & date – maybe next week. Lynn Sykes and others wrote a paper, which is in the BSSA a couple of years back, 2008, I think, on the Lamont New York area catalog. This is the source of the "earthquake fault".

I would love to talk about the ETSZ.

Andy

**From:** Richard W Harrison [mailto:rharriso@usgs.gov]  
**Sent:** Thursday, March 24, 2011 7:17 AM  
**To:** Murphy, Andrew  
**Subject:** RE: East Tennessee Seismic Zone

Hey Andy, I tried to send you a white paper on the research that I have proposed to the National Cooperative Mapping Program, but it got returned because it was too large of a file. I'll put hard copy in the mail.

Will you be attending the SSA meeting in Memphis next month? If so, we can get together then and talk. If no, then I will come visit you when you tell me that the timing is better. I'm sure that NRC is fairly busy right now.

I am very curious about where the News media is getting the notion of a "earthquake fault" in vicinity of the Indian Point reactor. Do you know the source?

take care & good luck,  
Rich

**From:** Flory, Shirley  
**To:** RES ChurchStreetBldg  
**Subject:** PONTIAC GRAND AM PRIX/VCK 903 - DOOR OPEN. Thanks - Shirley  
**Date:** Thursday, March 24, 2011 10:01:20 AM  
**Importance:** High

---

AG/944

**From:** [Federal Computer Week](#)  
**To:** [Case, Michael](#)  
**Subject:** DHS Speaker Just Announced! Free Seminar on Content-Centric Security - Register Today  
**Date:** Thursday, March 24, 2011 10:02:23 AM

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**From:** [RidsNrrOd Resource](#)  
**To:** [Leeds, Eric](#)  
**Cc:** [Meighan, Sean](#); [Nguyen, Quynh](#)  
**Subject:** FW: ACTION: External Awards/Recognition  
**Date:** Thursday, March 24, 2011 10:03:41 AM  
**Importance:** High

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**From:** RidsSbcrMailCenter Resource  
**Sent:** Thursday, March 24, 2011 8:36 AM  
**To:** RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsFsmeOd Resource;  
RidsHrMailCenter Resource; RidsNmssOd Resource; RidsNroOd Resource; RidsNroMailCenter Resource;  
RidsNrrOd Resource; RidsNrrMailCenter Resource; RidsNsirOd Resource; RidsNsirMailCenter Resource;  
RidsOeMailCenter Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsResOd Resource;  
RidsResPmdaMail Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource;  
RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource  
**Subject:** ACTION: External Awards/Recognition  
**Importance:** High

Office Directors/Regional Administrators,

SBCR will brief External Awards/Recognition as a topic during the upcoming Human Capital and EEO Commission Briefing scheduled for June 2, 2011. In order to accurately capture the data on employees that have received external awards/recognition during FY 2010 – 2011 for NRC mission related professional achievements, you are asked to provide a list of those employees from your office to SBCR. Please provide the following information: name of employee, office/branch/division, name of award (if any) and achievement/recognition statement, and the organization who presented the award. Forward this information to Anthony Barnes, Affirmative Employment and Diversity Program Manager, SBCR or contact Mr. Barnes at 415-1185 no later than COB April 13, 2011.

Thank you

AG1946

**From:** GovSec 2011 Expo & Conference  
**To:** Case, Michael  
**Subject:** Top 10 Reasons to Attend  
**Date:** Thursday, March 24, 2011 10:03:41 AM

---

GovSec 2011

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Use Priority Code: NX1G56

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AG/947



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---

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**From:** [Case, Michael](#)  
**To:** [Valentin, Andrea](#); [Donaldson, Leslie](#)  
**Cc:** [Richards, Stuart](#); [Sydnor, Russell](#)  
**Subject:** RE: RES Fortran Training  
**Date:** Thursday, March 24, 2011 10:14:00 AM  
**Attachments:** [image001.png](#)

---

I'm not doing Fortran Training. I'm interested in Areva Digital I&C training. I guess my insight would be that the TTC needs to help us understand what their role is. When we initially started, we recognized that this was training and we talked to the training folks about them "doing the training". They declined but it may have been more from a fiscal point of view (i.e. they didn't want to pay for it). I don't think they told us that if you want to procure it anyway, talk to person XYZ in the training organization and they will procure it for you. That's the insight.

---

**From:** Valentin, Andrea  
**Sent:** Wednesday, March 23, 2011 10:23 AM  
**To:** Donaldson, Leslie; Case, Michael  
**Subject:** FW: RES Fortran Training

Mike,

This was your procurement right? See Jody's description and questions. My involvement was to try to put the right folks together to make sure HR's process was being followed once Jody pointed out that it had not been coordinated up until that point. Any insight that you can provide would be appreciated so that I can get back to Jody.

Thanks,  
Andrea

---

**From:** Hudson, Jody  
**Sent:** Wednesday, March 23, 2011 9:24 AM  
**To:** Valentin, Andrea; Purdie, Deonna  
**Cc:** Bumpass, Sheila  
**Subject:** FW: RES Fortran Training

All,

It appears (see email below) the RES-initiated training procurement we had some discussion about a couple weeks ago proceeded with posting on Gov Biz-Ops. This occurred despite our having brought the issue and concern forward.

Although I'm not inclined to over blow this, it does illustrate that there are continuing problems with program offices operating contrary to NRC's delegated authorities with respect to developing, delivering, or procuring training. We need to find a way to fix this.

I have been communicating on this issue to, and relying primarily on, the PMDA offices to monitor and comply with the delegated authorities on training. The PMDAs seem like the logical coordination point given most office training and office procurements come through them.

AG/948

I still think this is the best way to address the issue, but it's not as effective as it needs to be; case in point this latest RES procurement posting.

I'm interested in your thoughts as to how we can make this work without elevating to higher levels.

Regards

-

Jody Hudson

Chief Learning Officer  
Human Resources Training & Development  
U.S. Nuclear Regulatory Commission  
Mailstop: GW-4A01  
301-492-2215

---

**From:** Chernoff, Margaret  
**Sent:** Wednesday, March 23, 2011 8:37 AM  
**To:** Barnes, Robin  
**Cc:** Hudson, Jody; Eam, Erika  
**Subject:** FW: RES Fortran Training

Hi Robin,

Yesterday we were doing some market research for the RES Fortran training project; and we discovered that this procurement had already been announced here: <http://www.nrc.gov/about-nrc/contracting/general/notice.html>. Therefore, I don't believe our input would benefit the procurement process at this time.

If there is anything additional we can help you with, please feel free to contact me.

- Margaret

Margaret Chernoff  
U.S. Nuclear Regulatory Commission  
Chief, Regulatory Fundamentals Training Branch  
Human Resources Training and Development  
301-492-2316  
[Margaret.Chernoff@nrc.gov](mailto:Margaret.Chernoff@nrc.gov)

---

**From:** Barnes, Robin  
**Sent:** Tuesday, March 22, 2011 3:16 PM  
**To:** Chernoff, Margaret  
**Subject:** RE: RES Fortran Training

Hi Margaret –

Thanks for the update. Great - we look forward to hearing from either Sal and Randi. As promised, we will begin discussing the integrated training process with our colleagues in RES at tomorrow's meeting.

Thanks again for your assistance!

*Robin T. Barnes  
Management Analyst  
US Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
Division of Program Management, Policy Development & Analysis  
Procurement Oversight & Funds Control Team  
Phone: 301-251-7401*



---

**From:** Chernoff, Margaret  
**Sent:** Tuesday, March 22, 2011 3:00 PM  
**To:** Barnes, Robin  
**Subject:** RE: RES Fortran Training

Hi Robin,

I have a couple folks on my staff (Salman Haq and Randi Neff) reviewing the SOW.

We are not really trying to develop an "approval" process; rather we are trying to instill a partnership whereby we work with the offices to obtain training that best fits the need – so our goal is effective and economical training that is delivered in a timely manner.

Tomorrow you should hear from my staff with their comments/questions.

- Margaret

---

**From:** Barnes, Robin  
**Sent:** Tuesday, March 22, 2011 1:30 PM  
**To:** Chernoff, Margaret  
**Cc:** Eam, Erika  
**Subject:** RE: RES Fortran Training

Hi Margaret!

I hope you are doing well. I just wanted to follow up with you regarding the status of Fortran training we were looking to procure. Can you let me know whether it has been approved or is still pending?

Thanks so much for your efforts.

*Robin T. Barnes*  
*Management Analyst*  
*US Nuclear Regulatory Commission*  
*Office of Nuclear Regulatory Research*  
*Division of Program Management, Policy Development & Analysis*  
*Procurement Oversight & Funds Control Team*  
*Phone: 301-251-7401*



---

**From:** Barnes, Robin  
**Sent:** Thursday, March 17, 2011 10:55 AM  
**To:** Chernoff, Margaret  
**Cc:** Colon, Heriberto  
**Subject:** RES Fortran Training

Hi Margaret!

Thank you so much for taking the time to speak with us regarding the training procurement process. We are happy to assist in making this process as smooth as possible for both HR and RES. Attached is the JOFOC for the Fortran Training. The Project Manager for this training is Antony Calvo at 251-7677 and the Division Management Analyst is Elizabeth Bowlin at 251-7955. Please feel free to keep me in the loop and/or let me know if there is anything I can do to help facilitate.

Again – we appreciate your time this morning and look forward to working with you!

Regards,

*Robin T. Barnes*  
*Management Analyst*  
*US Nuclear Regulatory Commission*  
*Office of Nuclear Regulatory Research*  
*Division of Program Management, Policy Development & Analysis*  
*Procurement Oversight & Funds Control Team*  
*Phone: 301-251-7401*



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**From:** Mehrhoff, Vivian  
**To:** Ahn, Tae; Albert, Michelle; Alferink, Beth; Andersen, James; Bahadur, Sher; Bailey, Marissa; Bielecki, Jessica; BowdenBerry, Elva; Brach, Bill; Bradbury, John; Brooks, David; Bupp, Margaret; Campbell, Andy; Campbell, Larry; Camper, Larry; Cao, Tianqing; Cermeno, Andrea; Chang, Kien; Ciocco, Jeff; Coleman, Neil; Collins, Elmo; Comar, Manny; Compton, Keith; Cuadrado, Jose; Damon, Dennis; David Turner; Davis, Jack; Dricks, Victor; Eubanks-White, Darlene; Everett, Vincent; Fedors, Randall; Fetter, Allen; Firth, James; Ford, William; Francis, Karin; Freeman, Denise; Garcia-Santos, Norma; Gendelman, Adam; Glenn, Chad; Gray, Anita; Gultmann, Jack; Gwo, Jin-Ping; Hair, Christopher; Hamdan, Latif; Haney, Catherine; Higgs, Gloria; Howell, Art; Hull, John; Jagannath, Banad; John Stamatkos; Johnson, Robert; Kobetz, Timothy; Kokajko, Lawrence; Kotra, Janet; Latta, Robert; Lee, Mike; Leeds, Eric; Lenehan, Daniel; Leslie, Bret; Lewis, Robert; Maier, Bill; Markley, Christopher; Matula, Thomas; McCartin, Timothy; McIntyre, David; McKenney, Christopher; Misenhimer, David; Mohseni, Abv; Mullins, Alicia; Nataraja, Mysore; Ordaz, Vonna; Parker, Nicole; Parrott, Jack; Pineda, Christine; Powell, Amy; Rahimi, Meraj; Rivera, Carmen; Roach, Kevin; Rubenstone, James; Salomon, Stephen; Sampson, Michele; Schlapper, Gerald; Self, Stephen; Silvia, Andrea; Spitzberg, Blair; Stablein, King; StAmour, Norman; Staub, Janet; Sulima, John; Tannenbaum, Anita; Trifiletti, Sue; Uselding, Lara; Valencia, Jennifer; Virgilio, Rosetta; Wastler, Sandra; Waters, Michael; Weaver, Doug; Weber, Michael; Whaley, Sheena; White, Bernard; Willoughby, Leonard; Young, Mitzi  
**Subject:** LAS VEGAS REVIEW-JOURNAL - YM FATE ARGUED IN COURT  
**Date:** Thursday, March 24, 2011 10:19:08 AM  
**Attachments:** image001.png

---

## Yucca Mountain fate argued in court

By Steve Tetreault  
STEPHENS WASHINGTON BUREAU  
Posted: Mar. 22, 2011 | 11:12 a.m.

WASHINGTON -- Washington state attorney Andy Fitz argued in federal appeals court Tuesday that the Obama administration moved illegally to shut down the Yucca Mountain program, an action that will leave highly radioactive materials stranded near the Columbia River.

But a three-judge panel wanted to focus on a procedural issue. Has the Yucca nuclear waste project been ended completely through a final action by the Nuclear Regulatory Commission, a federal safety agency? And, if not, wasn't it premature to be considering this case?

"Why shouldn't we wait until NRC acts?" Judge Brett Kavanaugh asked.

Fitz, a senior counsel in the Washington state attorney general's office, responded, "The key issue here, and it is incredibly frustrating, is the finality issue is a smokescreen."

No matter what the Nuclear Regulatory Commission does, Fitz argued, the Obama administration made clear in January 2010 that it was ending the Yucca Mountain program, and it proceeded to close the project office. He said the Nuclear Regulatory Commission "is just a small slice of the issue."

Washington state, South Carolina and others who have sued the Obama administration over Yucca Mountain had their day in court, challenging the termination of the project that sought to remove millions of gallons of radioactive waste from within their borders and transport it to a Nevada repository 100 miles northwest of Las Vegas.

They argued the government action violated the 1982 nuclear waste law. In short, they contended Congress authorized the Yucca project and only Congress could end it.

Barry Hartman, another plaintiff attorney, said the decision to abandon Yucca Mountain was made by the Department of Energy and President Barack Obama, and "he does not have the authority to change a statute that Congress passed."

"It does seem as if DOE has made a considered decision not to comply with a law passed by Congress," Kavanaugh said at one point.

AG/949

But otherwise judges in an hour-long hearing at the U.S. Court of Appeals for the District of Columbia Circuit focused largely on procedural questions that suggested the case may be decided on process rather than on a big picture.

"Obviously the judges were very interested in the jurisdictional issues," nuclear industry lawyer Jay Silberg said outside the courtroom. "They were more interested in the jurisdictional issues than they were on the merits."

Marty Malsch, an attorney who represents Nevada on nuclear issues, said the court normally rules within three or four months, although it had set a fast-track schedule in the Yucca Mountain case that might speed a decision.

The hearing took place in a courtroom packed with more than 100 people, including several rows of former Yucca Mountain managers.

Justice Department attorney Ellen Durkee, representing the Department of Energy and the Nuclear Regulatory Commission, told the judges the challenge was premature.

"This case is rather simple," Durkee said. In the absence of a final NRC judgment, "there is no agency action for the court to review." She said the Energy Department could restart the Yucca program if it loses court appeals, "subject to funding" from Congress.

Durkee said she did not know when the Nuclear Regulatory Commission would announce a decision on the case that has been before the commission since last July.

Critics in the nuclear industry have accused NRC chairman Gregory Jaczko, a former aide to Yucca Mountain foe Sen. Harry Reid, D-Nev., of foot-dragging on a final ruling, a charge he has denied.

The failure of the Nuclear Regulatory Commission to rule in the case proved to be a central point in oral arguments.

Washington state Attorney General Rob McKenna said he could not tell if the government's strategy involved delaying a Nuclear Regulatory Commission ruling in order to make a legal challenge more difficult.

"We certainly have been frustrated that the NRC has delayed," McKenna said. "We can't read minds but we can certainly see what the effect is."

The judges touched on that point.

"What if the NRC does not act?" said Judge Janice Rogers Brown.

"I don't think we are at a point of unreasonable delay," Durkee answered.

If anyone feels otherwise, they can sue the Nuclear Regulatory Commission on those grounds, she said.

Contact Stephens Washington Bureau Chief Steve Tetreault at [stetreault@stephensmedia.com](mailto:stetreault@stephensmedia.com) or 202-783-1760.

COMMENTS: 39 Reader Comment(s)

LINK: <http://www.lvrj.com/news/yucca-fate-argued-in-court-118445864.html>



*Vivian L Mehrhoff*

Administrative Assistant

Division of Reactor Safety

Region IV - Arlington, Texas 76011

817-860-8166



*"Death is not the greatest loss in life. The greatest loss is what dies inside us while we live." ...Norman Cousins*

**From:** [Xing, Jing](#)  
**To:** [Coe, Doug](#); [Peters, Sean](#)  
**Cc:** [Coyne, Kevin](#)  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011  
**Date:** Thursday, March 24, 2011 10:25:09 AM

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For Doug's question "Do we know what drove the ACRS interest and what their objectives are (e.g. are they going to write a letter on this):"

I don't know and Sean may or may not know. We need to find that out. One concern I have is the degraded I&C HF report. Dan Santos, the previous DE SLS on digital I&C and now a branch chief in ACRS, had many issues/concerns with that report and we were unable to reconcile all his concerns back then. I sent the report to Sushil the new DE SLS last summer and he has not had a chance to read it. I will try to set up a time to brief him the report and get his feedback before the ACRS meeting.

Jing

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 10:16 AM  
**To:** Xing, Jing  
**Cc:** Coyne, Kevin; Peters, Sean  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011

Thanks Xing.

For some reason, this wasn't on my radar.

It seems unusual for full committee to ask for this type of technical briefing. Do we know what drove the ACRS interest and what their objectives are (e.g. are they going to write a letter on this)?

Doug

---

**From:** Xing, Jing  
**Sent:** Thursday, March 24, 2011 10:07 AM  
**To:** Coe, Doug  
**Cc:** Coyne, Kevin; Peters, Sean  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011

Doug,

ACRS will have full committee meeting during April 7-9, and there will be 1.5 hour on April for us to brief HF work in emerging technologies with a focus on digital I&C. Sean will give an overview of our on-going activities in emerging technologies (basically, those project address NRO user needs), and I will talk about what we did in HF review guidance for degraded I&C as well as needs for HF work in this area by our counterparts. For latter I have talked with PRAB, NRR, NRO and will talk with DE this afternoon.

Sean and I can come to talk to you more details and concerns, and get your advices on how to prepare/precede this meeting.

AG/950

Thanks,

Jing

---

**From:** Lois, Erasmia  
**Sent:** Thursday, March 24, 2011 8:43 AM  
**To:** Coe, Doug; Xing, Jing  
**Cc:** Coyne, Kevin  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011

Hi Kevin

Regarding the ACRS meeting on April 8, I do not know. Jing may know. Also, as far as I know there is no ACRS meeting on April 22 related to our activities. It was moved from the 22nd to 20th.

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 8:05 AM  
**To:** Lois, Erasmia; Xing, Jing  
**Cc:** Coyne, Kevin  
**Subject:** RE: draft agenda for the ACRS Subcommittee meeting, April 20, 2011

Thanks Erasmia.

Was there also a role for us on Apr 8 (supporting DI&C human factors) ACRS meeting?  
Do we still have any ACRS meeting for us to support on Apr 22?

---

**From:** Lois, Erasmia  
**Sent:** Wednesday, March 23, 2011 11:55 AM  
**To:** Lai, John  
**Cc:** Gareth W. Parry; Forester, John A; Hendrickson, Stacey M Langfit; Groth, Katrina; 'Ali Mosleh'; 'Dana Kelly'; 'Martin.Sattison@inl.gov'; April Whaley; 'Johanna H Oxstrand'; Ronald Laurids Boring; Susan E. Cooper; Peters, Sean; Coe, Doug; Xing, Jing; Chang, James; Shen, Song-hua; Coyne, Kevin; Jeff Julius  
**Subject:** draft agenda for the ACRS Subcommittee meeting, April 20, 2011

John:

Attached is the draft agenda for the Subcommittee meeting on HRA, April 20, 2011.

Would it be possible to set-up a bridge number so that our contractors from national labs can join thru a conference? I believe we would need for about 10 lines.

Thank you very much

*Erasmia Lois, PhD*

Senior Reliability and Risk Analyst  
Office of Nuclear Regulatory Research  
U.S. Nuclear Regulatory Commission

tel: +301-251-7573  
Erasmia.Lois@nrc.gov

**From:** [SNL Energy](#)  
**To:** [Case, Michael](#)  
**Subject:** Essentials of Regulatory Finance from SNL - Registration now open.  
**Date:** Thursday, March 24, 2011 10:28:04 AM

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AG/951

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**Zabel, Joseph**

---

**Subject:** HCCB Branch Meeting  
**Location:** 6th Floor Huddle Room or 2nd Floor if busy

**Start:** Thu 3/24/2011 10:30 AM  
**End:** Thu 3/24/2011 11:15 AM  
**Show Time As:** Tentative

**Recurrence:** (none)

**Meeting Status:** Not yet responded

**Organizer:** Donaldson, Leslie

**Required Attendees:** Bonaccorso, Amy; Brobst, Janet; Chan, Deborah; Dempsey, Heather; Frampton, Julie; Johnson, Kevin; Oklesson, Edward; Purdie, Deonna; Vera, Graciela; Zabel, Joseph; Kardaras, Tom; Valentin, Andrea; Pope, Tia; Veltri, Debra; Uhle, Jennifer

**Optional Attendees:** Gallalee, Trish

Conflict w/ later, so hopefully this earlier time works for everyone!  
Thanks, Leslie

**From:** [Homeland Security NewsWire](#)  
**To:** [Leeds, Eric](#)  
**Subject:** See What's New - ISC West  
**Date:** Thursday, March 24, 2011 10:31:31 AM

---

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AG/953



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Regards,

Ed Nichols  
Vice President  
ISC Events



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**From:** [Richards, Stuart](#)  
**To:** [Sheron, Brian](#)  
**Cc:** [Case, Michael](#); [Rivera-Lugo, Richard](#)  
**Subject:** Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Date:** Thursday, March 24, 2011 10:43:26 AM  
**Importance:** High

---

Brian

This request is in regard to a proposed trip for Srimi to London for a meeting on graphite issues.

When Mike and I last discussed the trip with you, you asked for more information on the organization of the meeting.

The meeting is scheduled for April 11 – 13 and is organized by the UK Nuclear Installations Inspectorate (HSE) and EdF Energy, the operator of British AGRs .

The purpose of the meeting is to gather selected experts from around the world (a dozen or so), to establish an understanding on the scope of the problem of graphite fracture in high temperature gas cooled reactors. Srimi is our expert on graphite.

The value of the meeting to the NRC is that we will draw on the extensive graphite knowledge and experience of other countries to inform our graphite work. Gaining knowledge in this area from others should save us a significant amount of money and time. The meeting will also allow us to be part of the discussion on what future research needs to be done, some of which may be carried out by other countries, potentially saving us the resources to do it ourselves. The outcome of this meeting will also aid NRC's future research planning, and will contribute to the technical basis for staff positions, interim staff guidance development, and regulatory guide development.

It is unlikely that we could gain this information via e-mails and telephone calls. Attendance at the meeting is consistent with our research plan in this area. NRO has advocated drawing on international partners for information on graphite.

We think the potential benefits of this trip to the NRC are significant and recommend approval.

Thanks  
Stu

AG/954

From:  
To:  
Subject: How to Mobilize Your Informal Organization  
Date: Thursday, March 24, 2011 10:53:32 AM

April 2011 Webinar



**Join us for the Soundview Live Webinar:  
How to Tap the Power of the Informal with Jon R. Katzenbach  
and Zia Khan**

Date: Tuesday, April 12, 2011  
Time: 12:00 pm ET  
Presenters: Jon R. Katzenbach & Zia Khan



**Register for this Event for Just \$39**

Dear Michael,

Every enterprise has an informal as well as a formal organization. The formal consists of analyses, strategies, structures, processes, and programs — all codified in memos, charts, and PowerPoint presentations. The informal consists of emerging ideas, social networks, working norms, values, peer relationships, and communities of common interest.


In this *Soundview Live* webinar, authors Jon Katzenbach and Zia Khan make the compelling case that it is in the less familiar informal world where magic happens... yet one without the other is unlikely to sustain peak performance over time.

You will learn:

- How top-level organizations balance informal and formal elements to achieve outstanding results.
- When you can get the most done by using elements that operate under the radar (the informal), and when it is better to use more traditional processes (the formal).
- How to tap into the power of the informal to achieve top-notch, sustainable performance, and results.

Join us on April 12<sup>th</sup> at 12:00 PM ET to learn how to lead outside the formal lines of your organization for greater success, and to ask your questions of the author. Registration is just \$39 per site and includes all related handout materials.

**Register today!**

 **Jon R. Katzenbach** is a senior partner at Booz & Company and leads The Katzenbach Center at Booz, where promising new approaches in leadership, culture and organization performance are developed for client application. His consulting career has been largely focused in these areas and spans several decades across three different professional books, including *Wisdom of Teams*, *Peak Performance* and *Why Pride Matters More Than Money*. He received his MBA from Harvard, where he was a Baker Scholar. Jon is a founding partner of Katzenbach Partners.

**Zia Khan** is vice president for strategy and evaluation at the Rockefeller Foundation, which supports innovations that help people share globalization's benefits more equitably and strengthens their resilience to social, economic, health and environmental challenges. Zia also advises leaders on the integration of strategy and organization as a senior fellow of the Katzenbach Center, which he co-founded with Jon Katzenbach, and as an individual consultant. Prior to joining the Rockefeller Foundation, Zia established and led Katzenbach Partners' San Francisco office and West Coast Practice and pioneered the firm's work on the informal organization. Zia hold a B.S. from Cornell University and an M.S. and Ph.D. from Stanford University. He currently lives in

AG/955

Sincerely,  
Rebecca S. Clement



New York

Rebecca S. Clement  
Publisher

---

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**From:** [West, Stephanie](#)  
**To:** [Case, Michael](#); [Evans, Michele](#); [Ruland, William](#); [Terao, David](#); [Makar, Gregory](#); [Yoder, Matthew](#); [Hiser, Allen](#)  
**Cc:** [Lin, Bruce](#); [Burke, John](#); [Koshy, Thomas](#); [Tregoning, Robert](#); [Klein, Paul](#); [Taylor, Robert](#); [Smith, Stephen](#); [Geiger, Ervin](#); [Bailey, Stewart](#)  
**Subject:** Evaluation of Chemical Effects Phenomena Identification and Ranking Table Results  
**Date:** Thursday, March 24, 2011 10:53:57 AM  
**Attachments:** [ML102280592.APK](#)

---

Good Morning,

If you have any question, please contact Bruce Lin @ 301-251-7653.

Thank you,

Stephanie West  
Administrative Assistant, RES/DE  
US Nuclear Regulatory Commission  
ph: 301-251-7619  
fax: 301-251-7425  
[stephanie.west@nrc.gov](mailto:stephanie.west@nrc.gov)

AG1956

Attachment ML102280592.APK (107 Bytes) cannot be converted to PDF format.

**From:** [Ralph C. Jensen, Editor-in-Chief, Security Products](#)  
**To:** [Case, Michael](#)  
**Subject:** Look Who's Attending Security Products Virtual Event!  
**Date:** Thursday, March 24, 2011 10:01:57 AM



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- Corporate Vice President, New York Life Insurance Company
- Criminal Investigator, US Department of Veterans Affairs
- Director IT, AT&T
- DR and Standards Coordinator, State of Illinois
- EHS Specialist, Sprint
- Engineering Supervisor, Honeywell
- Information Security Officer, Dept. of Veterans Affairs
- International Trade Advisor, Madrid International
- Inspector, Federal Protective Service
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## Zabel, Joseph

---

**Subject:** HCCB Branch Meeting  
**Location:** 6th Floor Huddle Room or 2nd Floor if busy

**Start:** Thu 3/24/2011 11:00 AM  
**End:** Thu 3/24/2011 11:45 AM  
**Show Time As:** Tentative

**Recurrence:** (none)

**Meeting Status:** Not yet responded

**Organizer:** Donaldson, Leslie

**Required Attendees:** Bonaccorso, Amy; Brobst, Janet; Chan, Deborah; Dempsey, Heather; Frampton, Julie; Johnson, Kevin; Oklesson, Edward; Purdie, Deonna; Vera, Graciela; Zabel, Joseph; Kardaras, Tom; Valentin, Andrea; Pope, Tia; Veltri, Debra; Uhle, Jennifer

**Optional Attendees:** Gallalee, Trish

Conflict w/later, so hopefully this earlier time works for everyone!  
Thanks, Leslie

**Zabel, Joseph**

---

**Subject:** HCCB Branch Meeting  
**Location:** 6th Floor Huddle Room or 2nd Floor if busy

**Start:** Thu 3/24/2011 11:00 AM  
**End:** Thu 3/24/2011 11:45 AM

**Recurrence:** (none)

**Meeting Status:** Declined

**Organizer:** Donaldson, Leslie  
**Required Attendees:** Bonaccorso, Amy; Brobst, Janet; Chan, Deborah; Dempsey, Heather; Frampton, Julie; Johnson, Kevin; Okleson, Edward; Purdie, Deonna; Vera, Graciela; Zabel, Joseph; Kardaras, Tom; Valentin, Andrea; Pope, Tia; Veltri, Debra; Uhle, Jennifer  
**Optional Attendees:** Gallalee, Trish

When: Thursday, March 24, 2011 11:00 AM-11:45 AM (GMT-05:00) Eastern Time (US & Canada).

Where: 6th Floor Huddle Room or 2nd Floor if busy

Note: The GMT offset above does not reflect daylight saving time adjustments.

\*~\*~\*~\*~\*~\*~\*~\*~\*~\*

Conflict w/later, so hopefully this earlier time works for everyone!  
Thanks, Leslie

**From:** [Richards, Stuart](#)  
**To:** [Srinivasan, Makuteswara](#)  
**Cc:** [Case, Michael](#)  
**Subject:** FW: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Date:** Thursday, March 24, 2011 11:13:06 AM

---

Srini

See Brian's question below.

I think we need to emphasize the importance of knowing what the safety issues are, in order to support our safety review.

We should not be solving DOE's problems for them, but we need to have the knowledge to ask the right questions.

Stu

---

**From:** Sheron, Brian  
**Sent:** Thursday, March 24, 2011 11:10 AM  
**To:** Richards, Stuart  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)

And what research is DOE doing on this issue? Was DOE invited? If not, why not?

---

**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 10:43 AM  
**To:** Sheron, Brian  
**Cc:** Case, Michael; Rivera-Lugo, Richard  
**Subject:** Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Importance:** High

Brian

This request is in regard to a proposed trip for Srini to London for a meeting on graphite issues.

When Mike and I last discussed the trip with you, you asked for more information on the organization of the meeting.

The meeting is scheduled for April 11 – 13 and is organized by the UK Nuclear Installations Inspectorate (HSE) and EdF Energy, the operator of British AGRs .

The purpose of the meeting is to gather selected experts from around the world (a dozen or so), to establish an understanding on the scope of the problem of graphite fracture in high temperature gas cooled reactors. Srini is our expert on graphite.

The value of the meeting to the NRC is that we will draw on the extensive graphite knowledge and experience of other countries to inform our graphite work. Gaining knowledge in this area from others should save us a significant amount of money and

AG/960

time. The meeting will also allow us to be part of the discussion on what future research needs to be done, some of which may be carried out by other countries, potentially saving us the resources to do it ourselves. The outcome of this meeting will also aid NRC's future research planning, and will contribute to the technical basis for staff positions, interim staff guidance development, and regulatory guide development.

It is unlikely that we could gain this information via e-mails and telephone calls. Attendance at the meeting is consistent with our research plan in this area. NRO has advocated drawing on international partners for information on graphite.

We think the potential benefits of this trip to the NRC are significant and recommend approval.

Thanks  
Stu

**From:** [Salley, MarkHenry](#)  
**To:** [Coe, Doug](#); [Cooper, Susan](#); [Peters, Sean](#)  
**Cc:** [Hill, Kendra](#); [Coyne, Kevin](#); [Hill, Kendra](#); [Xing, Jing](#)  
**Subject:** RE: ACRS Subcommittee Meetings on HRA - April 20, 2011  
**Date:** Thursday, March 24, 2011 11:16:00 AM

---

Susan ~ I assume you have the lead for the presentation?

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 11:08 AM  
**To:** Salley, MarkHenry; Cooper, Susan; Peters, Sean  
**Cc:** Hill, Kendra; Coyne, Kevin; Hill, Kendra; Xing, Jing  
**Subject:** RE: ACRS Subcommittee Meetings on HRA - April 20, 2011

Thanks Mark – I was also hoping to see the slide package too.

---

**From:** Salley, MarkHenry  
**Sent:** Thursday, March 24, 2011 11:04 AM  
**To:** Coe, Doug; Cooper, Susan; Peters, Sean  
**Cc:** Hill, Kendra; Coyne, Kevin; Hill, Kendra; Xing, Jing  
**Subject:** RE: ACRS Subcommittee Meetings on HRA - April 20, 2011

Kendra,

Please get a copy of the Final NUREG-1921 to Doug.

Thanx

MHS

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 10:52 AM  
**To:** Cooper, Susan; Peters, Sean  
**Cc:** Hill, Kendra; Salley, MarkHenry; Coyne, Kevin; Hill, Kendra; Xing, Jing  
**Subject:** RE: ACRS Subcommittee Meetings on HRA - April 20, 2011

Did these get submitted to ACRS? Could I please see a copy?

Thanks,

Doug

---

**From:** Cooper, Susan  
**Sent:** Monday, March 21, 2011 4:18 PM  
**To:** Lai, John; Peters, Sean  
**Cc:** Hill, Kendra; Salley, MarkHenry; Coe, Doug; Coyne, Kevin; Hill, Kendra; Xing, Jing  
**Subject:** RE: ACRS Subcommittee Meetings on HRA - April 20, 2011

John – I respectfully request a one (1) day extension to today's deadline for an electronic copy of the updated, ***EPRI/NRC-RES Fire Human Reliability Analysis Guidelines, NUREG-1921.***

AG/961

The joint EPRI/NRC-RES team has been working hard for the last week (and weekend) but we've run into a few obstacles that we're not going to be able to overcome.

In particular, my counterpart at EPRI, Stuart Lewis, has been largely unreachable and technically unavailable due to his responsibilities at EPRI in responding to the events in Japan. The team developed a backup plan on Friday that Stuart approved over the weekend. However, this was a diversion of our resources.

Also, Scientech-Seattle, WA (EPRI's contractor responsible for this report's publication) has a different work day and COB than we do. At present, Scientech thinks that it can finish final incorporation of modifications close to COB today, **Pacific Time**. The rest of the team will need some time to review the final document before we would want to deliver it to you for ACRS sub-committee review.

I apologize for this delay, caused by a combination of unexpected circumstances

I'll be in touch with you tomorrow about the agenda, too.

Thank you,  
Susan E. Cooper  
*Senior Reliability & Risk Engineer*  
NRC/RES/DRA/HFRB  
301-251-7604

---

**From:** Lai, John  
**Sent:** Monday, March 14, 2011 6:02 PM  
**To:** Lois, Erasmia; Peters, Sean  
**Cc:** Cooper, Susan; Hill, Kendra; Salley, MarkHenry; Coe, Doug; Coyne, Kevin  
**Subject:** RE: ACRS Subcommittee Meetings on HRA - April 20, 2011

Good Afternoon,

Attached is the draft agenda for the combined fire and generic HRA meetings on April 20, 2011. Please fill in the information as much as possible and return to me by COB March 22, 2011.

Also the documents for the meeting are due to me by COB March 21, 2011.

If you have any questions, please contact me.

Thanks,

John Lai  
Senior Staff Engineer  
NRC/ACRS/RSB-B  
Voice: 301-415-5197  
FAX : 301-415-5589  
john.lai@nrc.gov  
MS T2-E26

---

**From:** Lai, John  
**Sent:** Tuesday, March 01, 2011 10:31 AM  
**To:** Lois, Erasmia; Peters, Sean  
**Cc:** Cooper, Susan; Hill, Kendra; Salley, MarkHenry; Coe, Doug  
**Subject:** ACRS Subcommittee Meetings on HRA - April 20, 2011

Good Morning All,

Just a reminder that the documents related to the two HRA meetings are due to me by March 20, 2011.

If you have any questions, please let me know.

Thanks,

John Lai  
Senior Staff Engineer  
NRC/ACRS/RSB-B  
Voice: 301-415-5197  
FAX : 301-415-5589  
john.lai@nrc.gov  
MS T2-E26

---

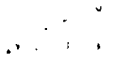
**From:** Lai, John  
**Sent:** Tuesday, November 30, 2010 8:45 AM  
**To:** Lui, Christiana  
**Cc:** Lois, Erasmia; Peters, Sean; Cooper, Susan; Hill, Kendra; Salley, MarkHenry; Hudson, Daniel  
**Subject:** Scheduling of the ACRS Subcommittee Meetings

Chris,

It will be very difficult to find an extra day for the subcommittee in April. The chairman of the subcommittee also questioned why it needs a full day for NUREG-1921. If you need extra time, March 22 is a possibility but I am not sure if the HRA is ready for that. The subcommittee members need to see the documents 30-day prior to the meeting as the comments made on the Oct. 18 meeting.

How about the Level 3 PRA dates? Are they OK?

Thanks,



John



**From:** do\_not\_reply@ilearnnrc.plateau.com  
**To:** Coa. Doug  
**Subject:** Subordinate Enrollment Notification for: DAVIS, CHON FICKLIN  
**Date:** Thursday, March 24, 2011 11:19:04 AM  
**Attachments:** sched.xls

---

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If you did not register yourself, please contact your training coordinator.

You may double click the calendar attachment (sched.vcs) to add the course schedule to your Outlook calendar.

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AG 1962

Attachment sched.ics (210 Bytes) cannot be converted to PDF format.

**From:** [Srinivasan, Makuteswara](#)  
**To:** [Richards, Stuart](#)  
**Cc:** [Case, Michael](#)  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Date:** Thursday, March 24, 2011 11:21:23 AM  
**Importance:** High

---

Stu,

Presently DOE is not conducting research related to understanding graphite fracture; rather, they are in a mode to gather strength and other properties characterization after limited irradiation.

Yes, DOE personnel (Dr. Tim Burchell of ORNL and Dr. Wil Windes of INL) have been invited.

This particular meeting will draw upon the operating experience of British AGR and Magnox reactors in which graphite cracking has been a problem.

The deliberations at this meeting will inform us all with respect to formulating potential diagnostic techniques and inservice inspections related to graphite cracking in reactors and to provide knowledge required to understand the sufficiency of ASME Code design margins. Graphite fracture in reactor directly will affect the integrity of fuel and control rod channels, and potential for blockage due to spalling due to localized fracture.

Thus, this meeting is a part of our overall strategy to have and promote a comprehensive understanding of graphite behavior, including fracture, so that we can conduct informed safety evaluation of applicant's design.

Srini.

---

**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 11:13 AM  
**To:** Srinivasan, Makuteswara  
**Cc:** Case, Michael  
**Subject:** FW: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)

Srini

See Brian's question below.

I think we need to emphasize the importance of knowing what the safety issues are, in order to support our safety review.

We should not be solving DOE's problems for them, but we need to have the knowledge to ask the right questions.

Stu

AG/963

---

**From:** Sheron, Brian  
**Sent:** Thursday, March 24, 2011 11:10 AM  
**To:** Richards, Stuart  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)

And what research is DOE doing on this issue? Was DOE invited? If not, why not?

---

**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 10:43 AM  
**To:** Sheron, Brian  
**Cc:** Case, Michael; Rivera-Lugo, Richard  
**Subject:** Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Importance:** High

Brian

This request is in regard to a proposed trip for Srimi to London for a meeting on graphite issues.

When Mike and I last discussed the trip with you, you asked for more information on the organization of the meeting.

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It is unlikely that we could gain this information via e-mails and telephone calls. Attendance at the meeting is consistent with our research plan in this area. NRO has advocated drawing on international partners for information on graphite.

We think the potential benefits of this trip to the NRC are significant and recommend approval.

Thanks  
Stu

**From:** [Coe, Doug](#)  
**To:** [Siu, Carolyn](#)  
**Subject:** FW: PAG update  
**Date:** Thursday, March 24, 2011 11:23:00 AM  
**Attachments:** [DHS PAGS RDD IND.pdf](#)

---

Could you please print this double sided for me?  
Thanks!

---

**From:** Milligan, Patricia (NSIR)  
**Sent:** Thursday, March 24, 2011 11:19 AM  
**To:** Brandon, Lou; Ashkeboussi, Nima; Barss, Dan; Brock, Kathryn; Costa, Arlon; Devlin, Stephanie; Fields, Leslie; Hardin, Kimberly; Hardin, Leroy; Hart, Michelle; Huffert, Anthony; Johnson, Don; Lui, Christiana; Purciarello, Gerard; Quinlan, Kevin; Roach, Edward; Robinson, Edward; Saba, Mohammad; White, Bernard; Benner, Eric; Camper, Larry; Cervera, Margaret; Cool, Donald; Gambone, Kimberly; Helton, Donald; Keegan, Elaine; Kim, Tae; Lubinski, John; Musico, Bruce; Schmidt, Duane; Takacs, Michael; Tappert, John; Wheeler, Larry; Armstrong, Garry; Burgess, Michele; Casto, Greg; Chowdhury, Prosanta; Clemons-Webb, Candace; Eads, Johnny; Gray, Anita; Hardesty, Duane; Harvey, Brad; Holahan, Vincent; Lappert, Glenna; LaVie, Steve; Magruder, Stewart; Mohseni, Aby; Norris, Michael; Schmitt, Ronald; Sun, Casper; Wunder, George; Clement, Richard; Coe, Doug; Creedon, Meghan; DeCicco, Joseph; Galletta, Thomas; Rosenberg, Stacey; Sebrosky, Joseph; Sullivan, Randy; Yin, Xiaosong; Derr, Kathryn; Brandt, Philip; Broaddus, Doug; Easson, Stuart; Mazaika, Michael; Parillo, John; Pelton, David; Purdy, Gary; Reis, Terrence; Schneider, Stewart; Sturz, Fritz; Wastler, Sandra; Watson, Bruce; Williams, Kevin  
**Cc:** Grant, Jeffery; Hasselberg, Rick; Temple, Jeffrey; Stone, Rebecca; Kozal, Jason; Bush-Goddard, Stephanie; Foster, Jack; Horn, Brian; Killian, Michelle; Lewis, Robert; McKenna, Eileen; Witt, Kevin; Jones, Cynthia  
**Subject:** PAG update

An additional resource for the PMT – while these PAGs were developed for RDD/IND, they do include the most up to date Federal guidance on protective action guides for evac, shelter, KI administration, food and water. Another tool for the toolbox.

AG/964

All counties within the State of Nebraska are eligible to apply for assistance under the Hazard Mitigation Grant Program.

(The following Catalog of Federal Domestic Assistance Numbers (CFDA) are to be used for reporting and drawing funds: 97.030, Community Disaster Loans; 97.031, Cora Brown Fund; 97.032, Crisis Counseling; 97.033, Disaster Legal Services; 97.034, Disaster Unemployment Assistance (DUA); 97.046, Fire Management Assistance Grant; 97.048, Disaster Housing Assistance to Individuals and Households In Presidential Declared Disaster Areas; 97.049, Presidential Declared Disaster Assistance—Disaster Housing Operations for Individuals and Households; 97.050 Presidential Declared Disaster Assistance to Individuals and Households—Other Needs; 97.036, Disaster Grants—Public Assistance (Presidentially Declared Disasters); 97.039, Hazard Mitigation Grant.)

**R. David Paulison,**  
Administrator, Federal Emergency  
Management Agency.

[FR Doc. E8-17688 Filed 7-31-08; 8:45 am]  
BILLING CODE 9110-10-P

## DEPARTMENT OF HOMELAND SECURITY

### Federal Emergency Management Agency

[FEMA-1780-DR]

#### Texas; Major Disaster and Related Determinations

**AGENCY:** Federal Emergency  
Management Agency, DHS.

**ACTION:** Notice.

**SUMMARY:** This is a notice of the Presidential declaration of a major disaster for the State of Texas (FEMA-1780-DR), dated July 24, 2008, and related determinations.

**DATES:** *Effective Date:* July 24, 2008.

**FOR FURTHER INFORMATION CONTACT:**  
Peggy Miller, Disaster Assistance  
Directorate, Federal Emergency  
Management Agency, Washington, DC  
20472, (202) 646-2705.

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that, in a letter dated July 24, 2008, the President declared a major disaster under the authority of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. 5121-5206 (the Stafford Act), as follows:

I have determined that the damage in certain areas of the State of Texas resulting from Hurricane Dolly beginning on July 22, 2008, and continuing, is of sufficient severity and magnitude to warrant a major disaster declaration under the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. 5121-5206 (the Stafford Act). Therefore, I declare that such a major disaster exists in the State of Texas.

In order to provide Federal assistance, you are hereby authorized to allocate from funds available for these purposes such amounts as you find necessary for Federal disaster assistance and administrative expenses.

You are authorized to provide assistance for emergency protective measures (Category B), including direct Federal assistance, under the Public Assistance program in the designated areas; Hazard Mitigation throughout the State; and any other forms of assistance under the Stafford Act that you deem appropriate subject to completion of Preliminary Damage Assessments (PDAs), unless you determine that the incident is of such unusual severity and magnitude that PDAs are not required to determine the need for supplemental Federal assistance pursuant to 44 CFR 206.33(d).

Consistent with the requirement that Federal assistance be supplemental, any Federal funds provided under the Stafford Act for Public Assistance and Hazard Mitigation will be limited to 75 percent of the total eligible costs, except for any particular projects that are eligible for a higher Federal cost-sharing percentage under the FEMA Public Assistance Pilot Program instituted pursuant to 6 U.S.C. 777. If Other Needs Assistance is later warranted, Federal funding under that program will also be limited to 75 percent of the total eligible costs.

Further, you are authorized to make changes to this declaration to the extent allowable under the Stafford Act.

The Federal Emergency Management Agency (FEMA) hereby gives notice that pursuant to the authority vested in the Administrator, Department of Homeland Security, under Executive Order 12148, as amended, Sandy Coachman, of FEMA is appointed to act as the Federal Coordinating Officer for this declared disaster.

I do hereby determine the following areas of the State of Texas to have been affected adversely by this declared major disaster:

Aransas, Bexar, Brooks, Calhoun, Cameron, Hidalgo, Jim Wells, Kenedy, Kleberg, Nueces, Refugio, San Patricio, Starr, Victoria, and Willacy Counties for Public Assistance Category B (emergency protective measures), including direct Federal assistance.

All counties within the State of Texas are eligible to apply for assistance under the Hazard Mitigation Grant Program.

(The following Catalog of Federal Domestic Assistance Numbers (CFDA) are to be used for reporting and drawing funds: 97.030, Community Disaster Loans; 97.031, Cora Brown Fund Program; 97.032, Crisis Counseling; 97.033, Disaster Legal Services Program; 97.034, Disaster Unemployment Assistance (DUA); 97.046, Fire Management Assistance; 97.048, Individual and Household Housing; 97.049, Individual and Household Disaster Housing Operations; 97.050, Individual and Household Program—Other Needs; 97.036, Public Assistance

Grants; 97.039, Hazard Mitigation Grant Program.)

**R. David Paulison,**  
Administrator, Federal Emergency  
Management Agency.

[FR Doc. E8-17686 Filed 7-31-08; 8:45 am]  
BILLING CODE 9110-10-P

## DEPARTMENT OF HOMELAND SECURITY

### Federal Emergency Management Agency

[Docket ID FEMA-2004-0004]

[Z-RIN 1660-ZA02]

#### Planning Guidance for Protection and Recovery Following Radiological Dispersal Device (RDD) and Improvised Nuclear Device (IND) Incidents

**AGENCY:** Federal Emergency  
Management Agency, DHS.

**ACTION:** Notice of final guidance.

**SUMMARY:** The Department of Homeland Security (DHS) is issuing final guidance entitled, "Planning Guidance for Protection and Recovery Following Radiological Dispersal Device (RDD) and Improvised Nuclear Device (IND) Incidents" (the Guidance). This Guidance is intended for Federal agencies, State and local governments, emergency management officials, and the general public who should find it useful in developing plans for responding to an RDD or IND incident. The Guidance recommends "protective action guides" (PAGs) to support decisions about actions that should be taken to protect the public and emergency workers when responding to or recovering from an RDD or IND incident. The Guidance outlines a process to implement the recommendations, discusses existing operational guidelines that should be useful in the implementation of the PAGs and other response actions, and encourages federal, state and local emergency response officials to use these guidelines to develop specific operational plans and response protocols for protection of emergency workers responding to catastrophic incidents involving high levels of radiation and/or radioactive contamination.

**DATES:** This notice is effective August 1, 2008.

**FOR FURTHER INFORMATION CONTACT:**  
Craig Conklin, Director Sector Specific  
Agency Executive Management Office,  
Office of Infrastructure Protection,

Department of Homeland Security at 703-235-2850 (phone), or [craig.conklin@dhs.gov](mailto:craig.conklin@dhs.gov) (e-mail), or John MacKinney, Deputy Director, Nuclear/Radiological/Chemical Threats and Science and Technology Policy, Office of Policy, Department of Homeland Security, at (202) 447-3885 (phone), or [john.mackinney@dhs.gov](mailto:john.mackinney@dhs.gov) (e-mail).

#### SUPPLEMENTARY INFORMATION:

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#### Background

This Guidance was developed to address the critical issues of protective actions and protective action guides (PAGs) to protect human health and to mitigate the effects caused by terrorists' use of a Radiological Dispersal Device (RDD) or Improvised Nuclear Device (IND). This document provides guidance for site cleanup and recovery following an RDD or IND incident, and affirms the applicability of existing 1992 EPA PAGs for radiological emergencies.

The development of this Guidance was directed by the White House, Office of Science and Technology Policy, through the National Science and Technology Council, Committee on Homeland and National Security, Subcommittee on Standards (SoS). In 2003, the SoS convened a senior level Federal working group, chaired by DHS, to develop guidance for response and recovery following a radiological dispersal device (RDD) or improvised nuclear device (IND) incident. The working group consisted of senior subject matter experts in radiological/nuclear emergency preparedness, response, recovery, and incident management. The following Federal departments and agencies were represented on the working group: DHS, EPA, Department of Commerce (DOC), Department of Energy (DOE), Department of Defense (DOD), Department of Labor (DOL), Department of Health and Human Services (HHS), and Nuclear Regulatory Commission (NRC).

On January 3, 2006, DHS issued the "Preparedness Directorate; Protective Action Guides for Radiological Dispersal Device (RDD) and Improvised Nuclear Device (IND) Incidents; Notice" (71 FR 174, Jan. 3, 2006), and requested public comments on this interim Guidance. Some changes to the Guidance were made as a result of these comments. A summary of the comments on the interim Guidance document and

responses are available at Docket ID No. FEMA-2004-0004 at <http://www.regulations.gov>.

In addition to the issuance of this Guidance, in response to interagency working group discussions and public comments, further guidance will be provided for the consequences that would be unique to an IND attack. This Guidance was not written to provide specific recommendations for a nuclear detonation (IND), but to consider the applicability of existing PAGs to RDDs and INDs. In particular, it does not consider very high doses or dose rate zones expected following a nuclear weapon detonation and other complicating impacts that can significantly affect life-saving outcomes, such as severely damaged infrastructure, loss of communications, water pressure, and electricity, and the prevalence of secondary hazards. Scientifically sound recommendations for responders are a critical component of post-incident life-saving activities, including implementing protective orders, evacuation implementation, safe responder entry and operations, and urban search and rescue and victim extraction. In the interim, this Guidance should be used until the IND guidance is developed.

The intended audience of this document are Federal, State, and local radiological emergency response and incident management officials. This Guidance is not intended to impact site cleanups occurring under other statutory authorities such as the Environmental Protection Agency's (EPA) Superfund program, the Nuclear Regulatory Commission's (NRC) decommissioning program, or other Federal and State cleanup programs. In addition, the scope of this Guidance does not include situations involving U.S. nuclear weapons accidents.

In addition to the issuance of this Guidance, further guidance is being planned for the devastating consequences that would be unique to INDs. In the interim, the present document will provide general RDD and IND guidance.

By agreement with the Environmental Protection Agency (EPA), the Guidance being published today is final and its substance will be incorporated without change into the revision of the 1992 EPA Manual of Protective Actions Guides and Protective Actions for Nuclear Incidents (the PAG Manual). This notice of final guidance will therefore sunset upon publication of the new EPA PAG Manual (see, <http://www.epa.gov/radiation/rert/pags.html>). The reader will then be directed to the

new EPA PAG Manual, where these provisions may be found.

*(a) Introduction*

For the early and intermediate phases of response, this document presents levels of projected radiation dose at which the Federal Government recommends that actions be considered to avoid or reduce adverse public health consequences from an RDD or IND incident. This document incorporates guidance and regulations published by the EPA, Food and Drug Administration (FDA), and the Occupational Safety and Health Administration (OSHA). For the late phase of the response, this Guidance presents a process for establishing appropriate exposure levels based on site-specific circumstances. This Guidance addresses key radiological protection questions at each stage of an RDD or IND incident (early, intermediate, and late) and constitutes advice by the Federal government to Federal, State, and local decision makers.

The objective of the Guidance is to aid decision makers in protecting the public, first responders, and other emergency workers from the effects of radiation, and cleaning up the affected area, while balancing the adverse social and economic impacts following an RDD or IND incident. Restoring the normal operation of critical infrastructure, services, industries, business, and public activities as soon as possible can minimize adverse social and economic impacts.

This Guidance for RDD and IND incidents is not a set of absolute standards. The guides are not intended to define "safe" or "unsafe" levels of exposure or contamination; rather they represent the approximate levels at which the associated protective actions are justified. The Guidance provides Federal, State and local decision makers the flexibility to be more or less restrictive, as deemed appropriate based on the unique characteristics of the incident and local considerations.

This RDD/IND Guidance can be used to select actions to prepare for, respond to, and recover from the adverse effects that may exist during any phase of a terrorist incident—the early (emergency) phase, the intermediate phase, or the late phase. There may be an urgent need to evacuate people; there may also be an urgent need to restore the services of critical infrastructure (e.g., roads, rail lines, airports, electric power, water, sewage, medical facilities, and businesses) in the hours and days following the incident—thus, some response decisions must be made quickly. If the decisions affecting the

recovery of critical infrastructure are not made quickly, the disruption and harm caused by the incident could be inadvertently and unnecessarily increased. Failure to restore important services rapidly could result in additional adverse public health and welfare impacts that could be more significant than the direct radiological impacts.

*(b) Characteristics of RDD and IND Incidents*

A radiological incident is defined as an event or series of events, deliberate or accidental, leading to the release, or potential release, into the environment of radioactive material in sufficient quantity to warrant consideration of protective actions. Use of an RDD or IND is an act of terror that results in a radiological incident.

**(1) Radiological Dispersal Device (RDD)**

An RDD poses a threat to public health and safety through the malicious spread of radioactive material by some means of dispersion. The mode of dispersal typically conceived as an RDD is an explosive device coupled with radioactive material. The explosion adds an immediate threat to human life and property. Other means of dispersal, both passive and active, may be employed.

There is a wide range of possible consequences that may result from an RDD, depending on the type and size of the device and how dispersal is achieved. The consequences of an RDD may range from a small, localized area, such as a single building or city block, to large areas, conceivably several square miles. However, most experts agree that the likelihood of impacting a very large area is low. In most plausible scenarios, the radioactive material would not result in acutely harmful radiation doses, and the primary public health concern from those materials would be increased risk of cancer to exposed individuals. Hazards from fire, smoke, shock (physical, electrical, or thermal), shrapnel (from an explosion), hazardous materials, and other chemical or biological agents may also be present.

**(2) Improvised Nuclear Device (IND)**

An IND is an illicit nuclear weapon bought, stolen, or otherwise originating from a nuclear State, or a weapon fabricated by a terrorist group from illegally obtained fissile nuclear weapons material that produces a nuclear explosion. The nuclear yield achieved by an IND produces extreme heat, powerful shockwaves, and prompt radiation that would be acutely lethal for a significant distance. It also

produces radioactive fallout, which may spread and deposit over very large areas. If a nuclear yield is not achieved, the result would likely resemble an RDD in which fissile weapons material was utilized.

**(3) Differences Between Acts of Terror and Accidents**

Most radiological emergency planning has been conducted to respond to potential nuclear power plant accidents. RDD and IND incidents differ from a nuclear power plant accident in several ways, and response planning should take these differences into account. First, the severity of an IND incident would be dramatically greater than any nuclear power plant accident. An IND would have grave consequences for the human population and create a large radius of severe damage from blast and fires, which could not occur in a nuclear power plant accident.

Second, the radiological release from an RDD or IND may start without any advance warning and would likely have a relatively short duration. In a major nuclear power plant accident, there is likely to be several hours or days of warning before the release starts, and the release is likely to be drawn out over many hours. This difference means that most early phase, and some intermediate phase, protective action decisions, which may be made in a timely fashion during power plant incidents, must be made much more quickly (and with less information) in an RDD or IND incident if they are to be effective.

Third, an RDD or IND incident is more likely to occur in a major city center with a large population. Because of the rural setting in which many nuclear facilities are located, the lower number and density of people affected by a nuclear plant incident would be less, making evacuations much more manageable, and the amount of critical infrastructure impacted is also likely to be smaller.

Fourth, large nuclear facilities have detailed emergency plans developed over years that are periodically exercised including specified protective actions, evacuation routes, and methods to quickly alert the public of the actions to take. This would not be the case for an RDD or IND incident. This level of radiological emergency planning typically does not exist in most cities and towns without nearby nuclear facilities.

Fifth, the radioactive material releases from a nuclear power plant incident would be well known in advance based on reactor operational characteristics



whereas releases associated with an RDD or IND would not.

Sixth, in an act of terrorism, the incident scene becomes a crime scene. As such, the crime scene must be preserved for forensic investigation. This may impact emergency responders during the early and intermediate phases of response. It should be noted that other personnel responding to the incident (*i.e.*, law enforcement, security personnel) will be involved in addition to emergency responders.

### (c) Phases of Response

Typically, the response to an RDD or IND incident can be divided into three time phases—the early phase, the intermediate phase, and the late phase—that are generally accepted as being common to all radiological incidents. The phases represent time periods in which response officials would be making public health protection decisions. Although these phases cannot be represented by precise time periods, and may overlap, they provide a useful framework for the considerations involved in emergency response planning.

#### (1) Early Phase

The early phase (or emergency phase) is the period at the beginning of the incident when immediate decisions for effective protective actions are required, and when actual field measurement data generally are not available. Exposure to the radioactive plume, short-term exposure to deposited radioactive materials, and inhalation of radioactive material are generally taken into account when considering protective actions for the early phase. The response during the early phase includes initial emergency response actions to protect public health and welfare in the short term, considering a time period for protective actions of hours to a few days. Priority should be given to lifesaving and first-aid actions. In general, early phase protective actions should be taken very quickly, and the protective action decisions can be modified later as more information becomes available. If an explosive RDD is deployed without warning, however,

there may be no time to take protective actions to significantly reduce plume exposure. Also, in the event of a covert dispersal, discovery or detection may not occur for days or weeks, allowing contamination to be dispersed broadly by foot, vehicular traffic, wind, rain, or other forces.

If an IND explodes, there may only be time to make early phase protective action recommendations (*e.g.*, evacuation, or shelter-in-place) many miles from the explosion to protect areas against exposure to fallout. Areas close to the explosion will be devastated, and communications and access will be extremely limited. Assistance will likely not be forthcoming or even possible for some hours. Self-guided protective actions are likely to be the best recourse for most survivors (*e.g.*, evacuation perpendicular to the plume movement if it can be achieved quickly, or sheltering in a basement or large building for a day or more after the incident<sup>1</sup>). Due to the lack of communication and access, outside guidance and assistance to these areas can be expected to be delayed. Therefore, response planning and public outreach programs are critical measures to meet IND preparedness objectives.

#### (2) Intermediate Phase

The intermediate phase of the response may follow the early phase response within as little as a few hours. The intermediate phase of the response is usually assumed to begin after the incident source and releases have been brought under control and protective action decisions can be made based on measurements of exposure and radioactive materials that have been deposited as a result of the incident. Activities in this phase typically overlap with early and late phase activities, and may continue for weeks to many months, until protective actions can be terminated.

During the intermediate phase, decisions must be made on the initial

<sup>1</sup> Additional protective action guides and recommendations are needed for the close-in zones after an IND. A follow-on Federal effort is underway to address this critical need.






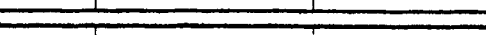

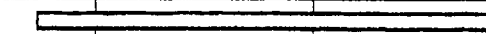

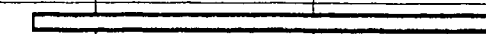

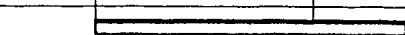







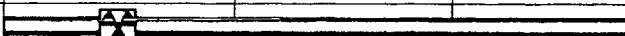

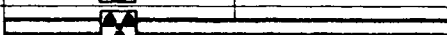

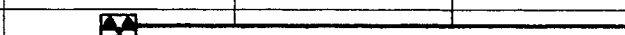

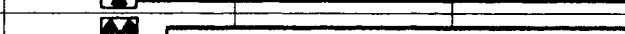



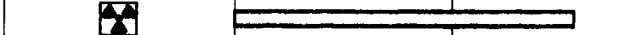

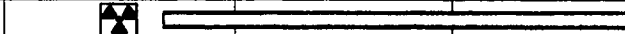

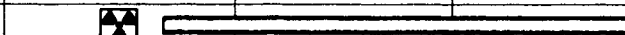

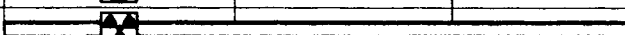

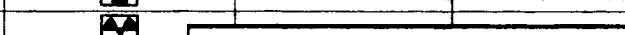

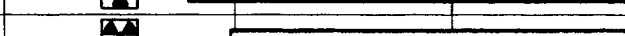



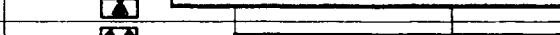

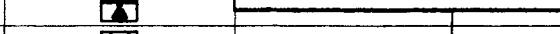
actions needed to recover from the incident, reopen critical infrastructure, and return to a state of relatively normal activity. In general, intermediate phase decisions should consider late phase response objectives. However, some intermediate phase decisions will need to be made quickly (*i.e.*, within hours) and should not be delayed by discussions on what the more desirable permanent decisions will be. Local officials must weigh public health and welfare concerns, potential economic effects, and many other factors when making decisions. For example, it can be expected that hospitals and their access roads will need to remain open or be reopened quickly. These interim decisions can often be made with the acknowledgement that further work may be needed as time progresses.


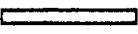
#### (3) Late Phase

The late phase is the period when recovery and cleanup actions designed to reduce radiation levels in the environment to acceptable levels are commenced. This phase ends when all the remediation actions have been completed. With additional time and increased understanding of the situation, there will be opportunities to involve key stakeholders in providing sound, cost-effective cleanup recommendations that are protective of human health and the environment. Generally, early (or emergency) phase decisions will be made directly by elected public officials, or their designees, with limited stakeholder involvement due to the need to act within a short timeframe. Long-term decisions should be made with stakeholder involvement, and can also include incident-specific technical working groups to provide expert advice to decision makers on alternatives, costs, and impacts. The relationship between typical protective actions and the phases of the incident response are outlined in Figure 1. There is overlap between the phases; this framework should be used to inform planning and decision-making.

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Figure 1.—Relationship between Exposure Routes, Protective Measures, & Timeframes for Effects<sup>a, b</sup>

	Early	Intermediate	Late
<b>EXPOSURE ROUTE</b>			
Direct Plume	 		
Inhalation Plume Material	 		
Contamination of Skin and Clothes			
Ground Shine (deposited material)			
Inhalation of Re-suspended Material			
Ingestion of Contaminated Water			
Ingestion of Contaminated Food			
<b>PROTECTIVE MEASURES</b>			
Evacuation	 		
Sheltering	 		
Control of Access to the Public			
Administration of Prophylactic Drugs			
Decontamination of Persons			
Decontamination of Land and Property			
Relocation			
Food Controls			
Water Controls			
Livestock/ Animal Protection			
Waste Control			
Refinement of Access Control			
Release of Personal Property			
Release of Real Property			
Re-entry of Non-emergency Workforce			
Re-entry to Homes			

 Radiological release incident occurs       Exposure or action occurs

<sup>a</sup> For some activities, the figure indicates that protective actions may be taken before a release occurs. This would be the case if authorities have prior warning about a potential RDD/IND incident.

<sup>b</sup> In certain circumstances, food and water interdiction may occur in early phases. In addition, some exposure routes (e.g., ingestion of contaminated food) may occur earlier than depicted in the figure, depending on the unique characteristics of the incident.

*(d) Guidance for RDD and IND Incidents*

This section defines protective actions and protective action guides, and provides guidance for their implementation in RDD and IND incidents. In addition, this section provides guidance for protection of emergency workers, and a strategy for devising cleanup plans, criteria, and options.

**(1) Protective Actions**

Protective actions are activities that should be conducted in response to an RDD or IND incident in order to reduce or eliminate exposure of the public to radiation or other hazards. These actions are generic and are applicable to RDDs and INDs. The principal protective action decisions for consideration in the early and intermediate phases of an emergency are whether to shelter-in-place, evacuate, or relocate affected or potentially affected populations. Secondary actions include administration of medical countermeasures, decontamination (including decontamination of persons evacuated from the affected area), use of access restrictions, and use of restrictions on food and water. In some situations, only one protective action needs to be implemented, while in others, numerous protective actions should be implemented. Many factors should be considered when deciding whether or not to order a protective action based on the projected dose to a population. For example, evacuation of a population is much more difficult and costly as the size of the population increases.

**(2) Protective Action Guides (PAGs)**

A PAG is the projected dose to a reference individual, from an accidental or deliberate release of radioactive material, at which a specific protective action to reduce or avoid that dose is recommended. Thus, protective actions are designed to be taken before the anticipated dose is realized.

The Environmental Protection Agency (EPA) has published PAGs in the "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents" (EPA 400-R-92-001, May 1992), in coordination with the Federal Radiological Preparedness Coordinating Committee (FRPCC). The PAGs presented in this manual, hereafter referred to as the 1992 EPA PAGs, are non-regulatory. They are designed to provide a flexible basis for decisions

under varying emergency circumstances. The 1992 EPA PAGs meet the following principal criteria and goals: (1) Prevent acute effects, (2) reduce risk of chronic effects, and (3) require optimization to balance protection with other important factors and ensure that actions taken result in more benefit than harm.

The 1992 EPA PAG Manual, however, was not developed to address response actions following radiological or nuclear terrorist incidents and does not address long-term cleanup. The 1992 EPA PAG Manual was written to address the kinds of nuclear or radiological incidents deemed likely to occur. While intended to be applicable to any radiological release, the 1992 EPA PAGs were designed principally to address the impacts of commercial NPP accidents, the worst type of incident under consideration at that time. This is important for two reasons: Commercial nuclear power plant accidents are almost always signaled by preceding events, giving plant managers time to make decisions, and giving local emergency managers time to communicate with the public and initiate evacuations if necessary. In addition, the suite of radionuclides present at nuclear power plants is well-known, and is dominated by relatively short-lived isotopes.

The 1992 EPA PAG Manual provides a significant part of the basis of this document and should be referred to for additional details. In deriving the recommendations contained in this Guidance, new types of incidents and scenarios that could lead to environmental radiological contamination were considered. The interagency working group determined that the 1992 EPA PAGs for the early and intermediate phases, including emergency responder guidelines, are also appropriate for use in RDD and IND incidents. This Guidance is intended to supplement the 1992 EPA PAG Manual for application to RDD and IND incidents, including providing new late phase guidance.

The RDD/IND Guidance provides generic criteria based on balancing public health and welfare with the risk of various protective actions applied in each of the phases of an RDD or IND incident. The RDD/IND Guidance is specific to radiation and radioactive materials, and must be considered in the context of other chemical or biological hazards that may also be present.

Though the early and intermediate PAGs in this Guidance are values of dose to be avoided, published dose conversion factors and derived response levels may be utilized in estimating doses, and for choosing and implementing protective actions. Other quantitative measures and derived concentration values may be useful in emergency situations; for example, for the release of goods and property from contaminated zones, and to control access into and out of contaminated areas.

Because of the short time frames required for emergency response decisions in the early and intermediate phases, it is likely there will not be opportunities for local decision makers to consult with a variety of stakeholders before taking actions. Therefore, this Guidance incorporates the significant body of work done in the general context of radiological emergency response planning from the development of the 1992 EPA PAGs, and represents the results of scientific analysis, public comment, drills, exercises, and a consensus at the Federal level for appropriate emergency action.

In order to use the early and intermediate phase PAGs to make decisions about appropriate protective actions, decision makers will need information on suspected radionuclides; projected plume movement, and radioactive depositions; and/or actual measurement data or, during the period initially following the release, expert advice in the absence of good information. Sources of such information include on-scene responders, as well as monitoring, assessment, and modeling centers.

**(3) Early and Intermediate Phase Protective Action Guides for RDD and IND Incidents**

The early and intermediate phase RDD/IND PAGs are generally based on the following sources: The 1992 EPA PAGs developed by EPA in coordination with other Federal agencies through the Federal Radiological Preparedness Coordinating Committee; guidance developed by the FDA for food and food products and the distribution of potassium iodide. Table 1 provides a summary of the early and intermediate phase PAGs for protection of the general public in an RDD or IND incident and key protective actions.

TABLE 1—PROTECTIVE ACTION GUIDES FOR RDD AND IND INCIDENTS

Phase	Protective action recommendation	Protective action guide
Early .....	Sheltering-in-place or evacuation of the public <sup>a</sup> .	1 to 5 rem (0.01–0.05 Sv) projected dose. <sup>b</sup>
	Administration of prophylactic drugs—potassium iodide <sup>c,e</sup> . Administration of other prophylactic or decorporation agents <sup>d</sup> .	5 rem (0.05 Sv) projected dose to child thyroid. <sup>c,e</sup>
Intermediate .....	Relocation of the public .....	2 rem (0.02 Sv) projected dose first year. Subsequent years, 0.5 rem/y (0.005 Sv/y) projected dose. <sup>b</sup>
	Food interdiction .....	0.5 rem (0.005 Sv) projected dose, or 5 rem (0.05 Sv) to any individual organ or tissue in the first year, whichever is limiting.
	Drinking water interdiction .....	0.5 rem (0.005 Sv) projected dose in the first year.

<sup>a</sup> Should normally begin at 1 rem (0.01 Sv); take whichever action (or combination of actions) that results in the lowest exposure for the majority of the population. Sheltering may begin at lower levels if advantageous.

<sup>b</sup> Total Effective Dose Equivalent (TEDE)—the sum of the effective dose equivalent from external radiation exposure and the committed effective dose equivalent from inhaled radioactive material.

<sup>c</sup> Provides thyroid protection from radioactive iodine only.

<sup>d</sup> For other information on other radiological prophylactics and medical countermeasures, refer to <http://www.fda.gov/cder/drugprepare/default.htm>, <http://www.bt.cdc.gov/radiation>, or <http://www.orau.gov/reacts>.

<sup>e</sup> Committed Dose Equivalent (CDE). FDA understands that a KI administration program that sets different projected thyroid radioactive dose thresholds for treatment of different population groups may be logistically impractical to implement during a radiological emergency. If emergency planners reach this conclusion, FDA recommends that KI be administered to both children and adults at the lowest intervention threshold (*i.e.*, >5 rem (0.05 Sv) projected internal thyroid dose in children) (FDA 2001).

In the early and intermediate phases of an RDD or IND incident there may not be adequate information to determine radiation levels or make dose projections because there may be little or no advance notice of an attack, the characteristics of the RDD or IND may not be immediately known, monitoring equipment may not be available to make measurements, or there may not be time to do measurements or projections before emergency response actions need to be initiated. Therefore, to use this guide to determine whether protective action is needed in a particular situation, it may be necessary to compare the PAGs to results of a dose projection. In general, it should be emphasized that realistic assumptions, based on incident-specific information, should be used when making radiation dose projections so that the final results are representative of actual conditions rather than overly conservative exposures. It is very important that local officials responsible for carrying out emergency response actions conduct advance planning to ensure that they are adequately prepared if such an incident were to occur.

#### (A) Early Phase PAGs

For the early phase, the 1992 EPA PAGs for evacuation and sheltering-in-place are appropriate for RDD and IND incidents (see Table 1). Early phase protective action decisions in an RDD or IND must be made quickly, and with very little confirmatory data. While sheltering-in-place should be carried out at 1 rem (0.01 Sv) sheltering-in-place can begin at any projected dose level.

FDA guidance on the administration of stable iodine is also considered appropriate (useful primarily for NPP incident involving radioiodine release). The administration of other medical countermeasures should be evaluated on a case-by-case basis and depend on the nature of the event and radionuclides involved.

The initial zone should be established and controlled around the incident site, as is the case for other crime scenes and hazards. This Guidance allows for the refinement of that area if the radiation exposure levels warrant such action. Advance planning by local officials for messaging, communications, and actions in the event of an RDD or IND are strongly encouraged.

#### (B) Intermediate Phase PAGs

The decisions in the intermediate phase will focus on the return of key infrastructure and services, and the rapid return to normal activities. This will include decisions on allowing use of roads, ports, waterways, transportation systems (including subways, trains, and airports), hospitals, businesses, and residences. It will also include responses to questions about acceptable use and release of real and personal property such as cars, clothes, or equipment that may have been impacted by the RDD or IND incident. Many of the activities will be concerned with materials and areas that were not affected, but for which members of the public may have concern. Thus, the RDD/IND Guidance serves to guide decisions on returning to impacted areas, leaving impacted areas, and providing assurance that an area was

not impacted. The intermediate phase is also the period during which planning for long-term site cleanup and remediation should be initiated.

For the intermediate phase, relocation of the population is a protective action that can be used to reduce dose. Relocation is the removal or continued exclusion of people (households) from contaminated areas in order to avoid chronic radiation exposure, and it is meant to protect the general public. For the intermediate phase, the existing relocation PAGs of 2 rem (0.02 Sv) in the first year and 0.5 rem (0.005 Sv) in any subsequent year are considered appropriate for RDD and IND incidents. However, for IND incidents, the area impacted and the number of people that might be subject to relocation could potentially be very large and could exceed the resources and infrastructure available. For example, in making relocation decisions, the availability of adequate accommodations for relocated people should be considered. Decision makers may need to consider limiting action to those areas most severely affected, phasing relocation implementation based on the resources available.

The relocation PAGs apply principally to personal residences, but may impact other locations as well. For example, these PAGs could impact work locations, hospitals, and park lands, as well as the use of highways and other transportation facilities. For each type of facility, the individual occupancy time should be taken into account to determine the criteria for using a facility or area. It might be necessary to avoid continuous use of homes in an area

because radiation levels are too high; however, a factory or office building in the same area could be used because occupancy times are shorter. Similarly, a highway could be used at higher contamination levels because the exposure time of highway users would be considerably less than the time spent by residents in a home.

The intermediate phase PAG for the interdiction of food is set at 0.5 *rem* (0.005 Sv) projected dose in the first year, and the intermediate phase PAG for the interdiction of drinking water is set at 0.5 *rem* (0.005 Sv) projected dose for the first year for RDD and IND incidents. These values are consistent with those now used or being considered as PAGs for other types of nuclear/radiological incidents.

The use of simple dose reduction techniques is recommended for personal property and all potentially contaminated areas that continue to be occupied. This technique is also consistent with the 1992 EPA PAGs developed for other types of nuclear/radiological incidents. Examples of simple dose reduction techniques would be washing all transportation vehicles (*e.g.*, automobiles, trains, ships, and aircraft), personal clothing, eating utensils, food preparation surfaces, and other personal property before next use, as practicable and appropriate.

#### (4) Late Phase Guidance

The late phase involves the final cleanup of areas and property at which radioactive material is present. Unlike the early and intermediate phases of an RDD or IND incident, decision makers will have more time and information during the late phase to allow for better data collection, stakeholder involvement, and options analysis. In this respect, the late phase is no longer a response to an "emergency situation," and is better viewed in terms of the objectives of cleanup and site recovery.

Because of the extremely broad range of potential impacts that may occur from RDDs and INDs (*e.g.*, light contamination of one building to widespread destruction of a major metropolitan area), a pre-established numeric cleanup guideline is not recommended as best serving the needs of decision makers in the late phase. Rather, a process should be used to determine the societal objectives for expected land uses and the options and approaches available, in order to select the most acceptable criteria. For example, if the incident is an RDD of limited size and the impacted area is small, it might reasonably be expected that a complete return to normal conditions can be achieved within a

short period of time. However, if the impacted area is large, achieving low cleanup levels for remediation of the entire area, and/or maintaining existing land uses, may not be practicable.

It should be noted that an intermediate phase PAG is not equivalent to a starting point for development of the late phase cleanup process. However, contamination and radiation levels existing after an incident (*e.g.*, concentrations, or dose rates), as well as actions already taken, provide practical starting points for further action and cleanup. The goal of cleanup is to reduce those levels as low as is reasonable. It is possible that final criteria for reoccupation at a given incident site may be either below or above the intermediate phase PAG dose value, since no dose or risk cap for the late phase is explicitly recommended under this Guidance.

Late phase cleanup criteria should be derived through a site-specific optimization process, which should include potential future land uses, technical feasibility, costs, cost-effectiveness, and public acceptability. Optimization is a concept that is common to many State, Federal, and international risk management programs that address radionuclides and chemicals, although it is not always referred to as such. The Risk Management Framework described in Appendix 2 provides such a process and helps assure the protection of public health and welfare. Decisions should take health, safety, technical, economic, and public policy factors into account. Appendix 3 utilizes the framework as a basis for RDD and IND site cleanup planning.

Broadly speaking, optimization is a flexible, multi-attribute decision process that seeks to weigh many factors. Optimization analyses are quantitative and qualitative assessments applied at each stage of site recovery decision-making, from evaluation of remedial options to implementation of the chosen alternative. The evaluation of cleanup alternatives, for example, should factor in all relevant variables, including areas impacted (*e.g.*, size and location relative to population), types of contamination (chemical, biological, and/or radioactive), human health, public welfare, technical feasibility, costs, and available resources to implement and maintain remedial options, short-term effectiveness, long-term effectiveness, timeliness, public acceptability, and economic effects (*e.g.*, on residents, tourism, and business, and industry).

Various Federal, and State agencies, along with other organizations (*e.g.*, national and international advisory

organizations), already have guidance and tools that may be used to help establish cleanup levels. The optimization process allows local decision makers to draw on the thought processes used to develop the dose and/or risk benchmarks used by these State, Federal, or other sources. These benchmarks, though developed within different contexts, may be useful for analysis of cleanup options. Decision makers might reasonably determine that it is appropriate to move up or down from these benchmarks, depending on the site-specific circumstances and balancing of other relevant factors.

In developing this Guidance, the Federal Government recognized that experience from existing programs, such as the EPA's Superfund program, the NRC's standards for decommissioning and decontamination to terminate a plant license, and other national and international recommendations, may be useful in planning the cleanup and recovery efforts following an RDD or IND incident. This Guidance allows the consideration and incorporation, as appropriate, of any or all of the existing environmental program elements.

The site-specific optimization process includes quantitative and qualitative assessments applied at each stage of site cleanup decision making, from initial scoping and stakeholder outreach, to evaluation of cleanup options, to implementation of the chosen alternative. The evaluation of options for the late phase of recovery after an RDD or IND incident should consider all of the relevant factors, including:

- Areas impacted (*e.g.*, size, location relative to population).
- Types of contamination (chemical, biological, and radiological).
- Other hazards present.
- Human health risk.
- Public welfare.
- Ecological risks.
- Actions already taken during the early and intermediate phases.
- Projected land uses.
- Preservation or destruction of places of historical, national, or regional significance.
- Technical feasibility.
- Wastes generated and disposal options and costs.
- Costs and available resources to implement and maintain remedial options.
- Potential adverse impacts (*e.g.*, to human health, the environment, and the economy) of remedial options.
- Short-term effectiveness.
- Long-term effectiveness.
- Timeliness.
- Public acceptability, including local cultural sensitivities.

- Economic effects (e.g., on employment, tourism, and business).
- Intergenerational equity.

The site-specific optimization process provides the best opportunity for decision makers to gain public confidence through the involvement of stakeholders. This process should begin during, and proceed independently of, intermediate phase protective action activities.

Appendix 3 provides additional details on a process that may be used to implement this Guidance, describing the role of the Federal Government and how it could integrate its activities with State and local governments and the public. For some radiological terror incidents, States may take the primary leadership role in cleanup and contribute significant resources toward recovery of the site.

As explained in Appendix 3, the Incident Command or Unified Command should develop a schedule with milestones for conducting the optimization process as soon as practicable following the incident. While the goal should be to complete the initial optimization process as soon as possible following an incident (depending on the size of the incident), the schedule must take into consideration incident-specific factors that would affect successful implementation. This schedule may need to reflect a phased approach to cleanup and is subject to change as the cleanup progresses.

(5) Emergency Worker Guidelines

The response during the early phase includes initial emergency response

actions to protect public health and welfare in the short term. Priority should be given to lifesaving and first-aid actions. Following an IND detonation in particular, the highest priority missions should also include actions such as suppression of fires that could result in further loss of life.

For the purposes of this Guidance, "emergency worker" is defined as any worker who performs an early or intermediate phase work action. Table 2 shows the emergency worker guidelines for early phase emergency response actions. In intermediate and late phase actions (i.e., cleanup and recovery), standard worker protections, including the 5 rem (0.05 Sv) occupational dose limit, apply.

TABLE 2—EMERGENCY WORKER GUIDELINES IN THE EARLY PHASE<sup>2</sup>

Total effective dose equivalent (TEDE) <sup>a</sup> guideline	Activity	Condition
5 rem (0.05 Sv) ..... 10 rem (0.1 Sv) .....	All occupational exposures ..... Protecting valuable property necessary for public welfare (e.g., a power plant).	All reasonably achievable actions have been taken to minimize dose. • All appropriate actions and controls have been implemented; however, exceeding 5 rem (0.05 Sv) is unavoidable.  • Responders have been fully informed of the risks of exposures they may experience. • Dose >5 rem (0.05 Sv) is on a voluntary basis. • Appropriate respiratory protection and other personal protection is provided and used. • Monitoring available to project or measure dose.
25 rem (0.25 Sv) <sup>b</sup> ....	Lifesaving or protection of large populations. It is highly unlikely that doses would reach this level in an RDD incident; however, worker doses higher than 25 rem (0.25 Sv) are conceivable in a catastrophic incident such as an IND incident.	• All appropriate actions and controls have been implemented; however, exceeding 5 rem (0.05 Sv) is unavoidable. • Responders have been fully informed of the risks of exposures they may experience. • Dose >5 rem (0.05 Sv) is on a voluntarily basis. • Appropriate respiratory protection and other personal protection is provided and used. • Monitoring available to project or measure dose.

<sup>a</sup> The projected sum of the effective dose equivalent from external radiation exposure and committed effective dose equivalent from internal radiation exposure.

<sup>b</sup> EPA's 1992 PAG Manual states that "Situations may also rarely occur in which a dose in excess of 25 rem for emergency exposure would be unavoidable in order to carry out a lifesaving operation or avoid extensive exposure of large populations." Similarly, the NCRP and ICRP raise the possibility that emergency responders might receive an equivalent dose that approaches or exceeds 50 rem (0.5 Sv) to a large portion of the body in a short time (Limitation of Exposure to Ionizing Radiation, National Council on Radiation Protection and Measures, NCRP Report 116 (1993a). If lifesaving emergency responder doses approach or exceed 50 rem (0.5 Sv) emergency responders must be made fully aware of both the acute and the chronic (cancer) risks of such exposure.

This Guidance document and the emergency worker guidelines were developed for a wide range of possible radiological scenarios, from a small RDD that may impact a single building to an IND that could potentially impact a large geographic region. Therefore, the 5, 10 and 25 rem guidelines (Table 2) should not be viewed as inflexible limits applicable to the range of early phase emergency actions covered by this Guidance. Because of the range of

impacts and case-specific information needed, it is impossible to develop a single turn-back dose level for all responders to use in all events, especially those that involve lifesaving operations. Indeed, with proper preparedness measures (training, personal protective equipment, etc.) many radiological emergencies addressed by this document, even lifesaving operations, may be manageable within the 5 rem (0.05 Sv) occupational limit. Moreover, Incident Commanders should make every effort to employ the "as low as reasonably

achievable" (ALARA) principle after an incident. Still, in some incidents medically significant doses above the annual occupational 5 rem (0.05 Sv) dose limit may be unavoidable. For instance, in the case of a catastrophic incident, such as an IND, Incident Commanders may need to consider raising the lifesaving and valuable property (i.e., necessary for public welfare) emergency worker guidelines in order to prevent further loss of life and prevent the spread of massive destruction. Ensuring that emergency workers have full knowledge of the

<sup>2</sup> In the intermediate and late phases, standard worker protections, including the 5 rem occupational dose limit, would normally apply.

associated risks prior to initiating emergency action and medical evaluation of emergency workers after such exposure is essential. (See Appendix 1 for additional discussion of ALARA.)

Ideally, the Incident Commanders should define and enforce the emergency dose limits in accordance with the immediate risk situation and the type of emergency action being performed (see Table 2). However, in the case of an attack it may not be possible to conduct dose measurements or projections before initiating emergency response activities. Therefore, it is crucial that officials responsible for carrying out emergency response actions in the early phase conduct thorough advance planning to ensure that they are adequately prepared if such an incident occurs. Planning should include evaluating data and information on possible or anticipated radiation exposures in RDD or IND incidents, developing procedures for reducing and controlling emergency responder exposures to allowable dose limits (Table 2), obtaining appropriate personal protective equipment (*e.g.*, respirators, clothing) for protecting emergency responders who enter contaminated areas, and developing appropriate decision-making criteria for responding to catastrophic incidents that may involve high radiation exposure levels. Planning should also include informing and educating emergency workers about emergency response procedures and controls as well as the acute and chronic (cancer) risks of exposure, particularly at higher dose levels. Effective advance planning will help to ensure that the emergency worker guidelines are correctly applied and that emergency workers are not exposed to radiation levels that are higher than necessary in the specific emergency action.

In addition, as part of advance planning, officials should develop a process for assessing hazards and for determining appropriate actions in incidents that may involve high radiation doses. Decisions regarding emergency response actions in incidents involving high radiation exposures require careful consideration of the benefits to be achieved by the "rescue" or response action (*e.g.*, the significance of the outcome to individuals, large populations, general welfare, or valuable property necessary for public welfare), and the potential health impacts (*i.e.*, acute and chronic) to emergency workers. The planning for a potential high radiation exposure incident should consider how to weigh the potential for and significance of the

success of the emergency response/rescue operation against the potential for and significance of the health and safety risks to the emergency workers. Federal, state and local emergency response officials should use these guidelines to develop specific operational plans and response protocols for protection of emergency response workers.

*(e) Operational Guidelines for Early and Intermediate PAGs*

Implementation of the early and intermediate PAGs may be supported by operational guidelines that can be readily used by decision makers and responders in the field. Operational guidelines are levels of radiation or concentrations of radionuclides that can be accurately measured by radiation detection and monitoring equipment, and then related or compared to the PAGs to quickly determine whether actions need to be implemented. Federal agencies are continuing development of operational guidelines to support the application of this Guidance, and other site-level decisions; therefore, they are provided here in overview only.

Some values already exist that could potentially serve as operational guidelines for RDD and IND response and recovery operations, and there are various tools available to help derive operational guidelines for response planning. Appendix 4 presents a summary of the types of operational guidelines for RDD and IND response operations currently under development.

Additional tools and assessment methodologies to aid in planning and development of operational guidelines for use with PAGs for a wide range of situations are available from the Federal Radiological Monitoring and Assessment Center (FRMAC). These tools and methods are written to support FRMAC operations during radiological and nuclear emergency responses. The FRMAC manuals provide detailed methods for computing Derived Response Levels (DRLs) and doses based on measurement or modeling results and suggest input parameters for various situations.<sup>3</sup>

Some examples of existing values that can be used as operational guidelines for RDD and IND response operations and tools that could be used to establish site-specific operational guidelines include, derived response levels, derived intervention levels for food, and

radiation levels for control of access to radiation areas.

(1) Derived Response Levels (DRLs)

The 1992 EPA PAG Manual contains guidance and Derived Response Levels (DRLs) for various potential exposure pathways, including external exposure, inhalation, submersion, ground shine, and drinking water, for application in the early and intermediate phases. These values serve as, or can be adapted to serve as, operational guidelines to readily determine if protective actions need to be implemented. The summed ratios of radionuclide concentrations obtained through field measurements can be compared to the DRLs to determine whether the PAGs are likely to be exceeded. If concentrations of radionuclides obtained through field measurements are less than the DRLs, the PAGs are not likely to be exceeded and, thus, a protective action may not need to be taken.

(2) Derived Intervention Levels (DILs) for Food

The FDA has developed Derived Intervention Levels (DILs) for implementation of the early and intermediate PAGs for food. These DILs establish levels of contamination that can exist on crops and in food products and still maintain dose levels below the food PAGs, and could therefore be used as operational guidelines for RDD and IND incidents. More information on DILs can be found in "Accidental Radioactive Contamination of Human Food and Animal Feeds: Recommendations for State and Local Agencies" (U.S. Department of Health And Human Services, Food and Drug Administration, August 13, 1998).

(3) Radiation Levels for Control of Access to Radiation Areas

Additional operational guidelines for use in the early and intermediate phases of response are being developed for issues such as clearance of personal and real property, land and facility access, and for response actions. A DOE project supported by an interagency effort is developing needed tools and operational guidelines that address continued use, or necessary control for personal property (*e.g.*, vehicles, equipment, personal items, debris) and real property (*e.g.*, buildings, roads, bridges, residential and commercial areas, national monuments and icons) that may be impacted by an RDD or IND incident. The effort includes consideration of short and long term use

<sup>3</sup> These materials and additional information on the FRMAC can be obtained at <http://www.nv.doe.gov/nationalsecurity/homelandsecurity/frmac>.



or access to areas. A DOE report<sup>4</sup> is available for review, and use as appropriate. The report includes proposed operational guidelines and their technical derivation, and provides tools such as the computer model RESRAD-RDD<sup>5</sup> for calculating incident-specific guidelines and worker stay-time tables for access control, and dose-based soil and building contamination levels to assist in the site-specific optimization process. The goal of the DOE report is to provide sufficient information to assist decision makers and responders in executing their responsibilities in a safe way. Appendix 4 of this Guidance provides a more detailed overview of the operational guidelines contained in the DOE draft report and their intended applications.

#### Appendix 1—Planning for Protection of Emergency Workers Responding to RDD and IND Incidents

The purpose of this appendix is to provide Federal, state, and local decision makers with information on how to prepare for, and implement emergency worker guidance in RDD and IND incidents. Because there may not be adequate information or time for determining radiation levels or making dose projections in the early phase of an RDD or IND incident, it is very important that emergency management officials conduct worker health and safety planning and training in advance to ensure they are adequately prepared if such an incident occurs.

Planning should include evaluating data and information on possible or anticipated radiation exposures in RDD and IND incidents and on acute and chronic risks of radiation exposures, developing procedures for reducing and controlling emergency worker exposures, obtaining appropriate personal protective equipment (e.g., respirators, protective clothing) to help protect emergency workers who enter exposure areas, and developing appropriate decisionmaking criteria for responding in catastrophic incidents, such as an IND, that may involve high exposure levels. Planning should also include training and educating emergency workers about emergency response procedures in radiological environments, radiation exposure controls and the risks of exposure, particularly at higher levels. Effective planning and training will help to ensure that exposures to emergency workers are kept to the lowest

radiation levels necessary for the particular emergency response action.

This appendix provides information to assist local, State, and Federal authorities, and emergency workers in planning for radiological emergencies, in particular those related to terrorist attacks using RDDs and INDs. The appendix is not intended to provide comprehensive training guidance. Other information useful in the planning process may be available from the following organizations:

- The National Council on Radiation Protection and Measurements,
- the International Commission on Radiological Protection,
- the International Atomic Energy Agency,
- the American Nuclear Society,
- the Health Physics Society, and
- the Conference of Radiation Control Program Directors.

##### (a) Guidelines for Emergency Workers in Responding to RDD and IND Incidents

Table 2 in Section (d)(5) of the Guidance shows the emergency worker guidelines for the early phase. In the intermediate and late phases, standard OSHA and other worker health and safety standards apply. The DOE and NRC also have standards that govern worker health and safety for normal operations at their owned or licensed facilities. OSHA's occupational radiation dose limit (1.25 rem (0.0125 Sv) per annual quarter, or 5 rem (0.05 Sv) total in one year) minimizes risk to workers consistent with the Occupational Health and Safety Act (29 U.S.C. 651 et seq.).

In many radiological incidents, particularly RDD situations, the actual dose to emergency workers may be controlled to less than 5 rem (0.05 Sv). However, in other radiological incidents precautions may not be sufficient or effective to keep emergency worker doses at or below 5 rem (0.05 Sv), because of the magnitude of the incident and because certain measures typically used to control exposures in normal operations may not be applicable. For example, one of the major radiation protection controls used in normal radiological operations is containment of the radioactive material. Another is to keep people away from the source material. During emergency response to an RDD or IND incident use of these controls may not be possible due to the nature of the incident and the urgency of response actions. As a result, high radiation exposures for emergency responders may be unavoidable and have the potential to exceed regulatory limits used for normal operations. Therefore, the 5, 10 and 25 rem guidelines found in Table 2 should not be viewed as absolute standards applicable to the full range of incidents covered by this guidance, but rather serve as decision points for making worker protection decisions during emergencies.

Emergency response actions in catastrophic incidents that involve high exposure levels require careful consideration of both the benefits to be achieved by the "rescue" or response action (e.g., the significance of the benefit to individuals, populations, valuable property necessary for general welfare), and the potential for acute and chronic health impacts to individuals

conducting the emergency response operation. That is, in making an emergency response decision, the potential for the success of the response/rescue operation and the significance of its benefits to the community should be weighed against the potential for, and significance of, the health and safety risks to workers.

##### (b) Controlling Occupational Exposures and Doses to Emergency Workers

Appropriate measures should be taken to minimize radiation dose to emergency workers responding to an RDD or IND incident. With proper preparedness measures (e.g., training, personal protective equipment), many emergencies that this document addresses, including lifesaving actions, may be possible to manage within the 5 rem (0.05 Sv) occupational limit. Emergency management officials responsible for an incident should take steps to keep all doses to emergency workers "as low as reasonable achievable" (ALARA). Protocols for maintaining ALARA should include the following health physics and industrial hygiene practices:

- Minimizing the time spent in the contaminated area (e.g., rotation of emergency responders);
- Maintaining distance from sources of radiation;
- Shielding of the radiation source;
- Using hazard controls that are applicable to the work performed;
- Properly selecting and using respirators and other personal protective equipment (PPE), to minimize exposure to internally deposited radioactive materials (e.g., alpha and beta emitters); and
- Using prophylactic medications, when appropriate, that either block the uptake or reduce the retention time of radioactive material in the body.

To minimize the risks from exposure to ionizing radiation, all emergency responders should be trained and instructed to follow emergency response plans and protocols and be advised on how to keep exposures as low as reasonably achievable. Health physics and industrial hygiene practices should include the use of dosimetry for monitoring of individual exposure with real-time readings (i.e., real-time electronic dosimeters) and permanent records (e.g., film badges, optically stimulated luminescent [OSL], or thermoluminescent dosimeters [TLDs]). Also, employers should (1) develop procedures and training that relate measurements to dose and risk, (2) understand and practice ALARA procedures with workers, and (3) address other issues related to performing response in a radiological environment.

##### (c) Understanding Radiation Risks

If there is the possibility that emergency workers would receive a radiation dose higher than the 5 rem (0.05 Sv) guideline, emergency workers should be trained to understand the risk associated with such doses, including a thorough explanation of the latent risks associated with receiving doses greater than 5 rem (0.05 Sv), and acute risks at higher doses. Emergency workers should be fully aware of both the projected acute and chronic risks (cancer) they may

<sup>4</sup> Preliminary Report on Operational Guidelines Developed for Use in Emergency Preparedness and Response to a Radiological Dispersal Device Incident, DOE/HS-0001. The report and associated material will be available at <http://www.ogcms.energy.gov>.

<sup>5</sup> RESRAD-RDD is derived from RESRAD, which is a computer model designed to estimate radiation doses and risks from residual radioactive materials. The RESRAD model has been applied to determine the risk to human health posed at over 300 sites in the United States and abroad that have been contaminated with radiation.



incur in an emergency response action. Furthermore, emergency workers cannot be forced to perform a rescue action involving radiation doses above regulatory limits, and they should be given reasonable assurance that normal controls cannot be utilized to reduce doses to less than 5 *rem* (0.05 *Sv*). After the event, it is essential that emergency workers be provided with medical follow up.

The estimated risk of fatal cancer<sup>6</sup> for healthy workers who receive a dose of 10 *rem* (0.10 *Sv*) is about 0.46 percent over the worker's lifetime (*i.e.*, 4–5 fatal cancers per 1000 people, or 0.4–0.5 percent). The risk scales linearly. For workers who receive a dose of 25 *rem* (0.25 *Sv*), the risk is about 1.1 percent. The risk is believed to be greater for those who are younger at the time of exposure. For example, for 20–30 year olds the estimated risk of fatal cancer at 25 *rem* (1.75 percent) is about twice as large as the risk for 40–50 year olds (0.8 percent).

Above 50 *rem* (0.5 *Sv*) acute effects are possible. Where lifesaving actions may result in doses that approach or exceed 50 *rem* (0.50 *Sv*), such as in an IND incident, emergency workers need to have a full understanding of the potential acute effects of the expected radiation exposure, in addition to the risk of chronic effects. The decision to take these lifesaving actions must be based on the estimation that the human health benefits of the action exceed the safety and health risks to the emergency workers.

It is important to note that the approach used to translate dose to risk in this discussion is a simplistic approach for developing rough estimates of risks for comparative purposes. Other more realistic and accurate approaches are often used in assessing risks for risk management decisions (other than for emergencies) when more complete information about the contaminants and the potential for human exposure is available. These approaches rely on radionuclide-specific risk factors (*e.g.*, found in Federal Guidance Report No. 13 and EPA Health Effects Assessment Summary Tables), and are typically used in long-term assessments, such as environmental cleanup.

#### (d) Preparedness

To prepare for large radiological disasters, local officials and Incident Commanders will need to have a decision-making process already developed and ready to implement when they can no longer use standard occupational dose limits or when there is the possibility that they may face decisions involving exposures approaching or exceeding 25 *rem* (0.25 *Sv*) for lifesaving operations. Preparedness entails investigating the nature of the RDD and IND incident for which local officials must be prepared, having appropriate worker health and safety plans and protocols for such incidents, and training and exercises to assure a level of readiness among officials and responders.

Incident Commanders and emergency responders should thoroughly understand

the emergency worker guidelines for radiological emergency response, including specific emergency responder health and safety procedures and ALARA principles. The reader is referred to the EPA PAG Manual (May 1992), the FRMAC Radiological Emergency Response Health and Safety Manual (May 2001), and the Hazardous Waste Operations and Emergency Response (HAZWOPER) regulations. The EPA has a Worker Protection (40 CFR part 311) standard that applies the HAZWOPER standard to State and local workers in States that do not have their own occupational safety and health program.

The HAZWOPER regulations, found in 29 CFR 1910.120 and 1926.65, were promulgated to protect personnel working at a hazardous waste site, or a treatment, storage, or disposal facility, or performing emergency response. This standard also covers employers whose employees are engaged in emergency response without regard to the location of the hazard (unless specifically exempted or where a more protective safety and health standard applies). If an employer anticipates that their employees will respond to a potential hazard, HAZWOPER requires such actions as (1) the development of an emergency response plan (including personnel roles, lines of authority, training, communication, personal protective equipment, and emergency equipment), (2) procedures for handling a response, (3) specific training requirements based on the anticipated roles of the responder, and (4) medical surveillance. For specific interpretations regarding HAZWOPER and/or other occupational safety and health standards, employers should consult the appropriate implementing agency (*e.g.*, appropriate Federal agencies, State Occupational Safety and Health Programs, or State Radiation Control Programs).

#### Appendix 2—Risk Management Framework for RDD and IND Incident Planning

This appendix contains a description of a risk management framework for making decisions to protect public health and welfare in the context of cleanup and site recovery following an RDD or IND incident. The framework is based on the report, "Framework for Environmental Health Risk Management," mandated by the 1990 Clean Air Act Amendments published by the Commission on Risk Assessment and Risk Management in 1997. This appendix provides specific material for RDD and IND incidents, and reference to the report is encouraged for the details of the general framework. A plan for implementing this framework for RDD and IND incidents is provided in Appendix 4.

The "Framework for Environmental Health Risk Management" is considered generally suitable for addressing the long-term cleanup issues for RDDs and INDs. Given the time frames following an RDD or IND incident there is generally not sufficient time in the early phase to conduct a full risk assessment and get stakeholder involvement. In order for the framework to be most useful it must be used in planning and preparing for a radiological or nuclear incident. Many of the

basic risk management principles were also used in development of the 1992 EPA PAGs.

The framework is designed to help decision makers make good risk management decisions. The level of effort and resources invested in using the framework should be commensurate with the significance of the problem, the potential severity and economic impact, the level of controversy surrounding the problem, and resource constraints. The health and environmental hazards that must be considered are radiation hazards, and potentially chemical or biological hazards. Other factors to be considered include the continued disruption in normal activities, loss of, or limited access to critical infrastructure and health care and general economic damage.

The framework relies on the three key principles of (1) broad context, (2) stakeholder participation, and (3) iteration. Broad context refers to placing all of the health and environmental issues in the full range of impacts and recovery factors following an RDD or IND incident, and is intended to assure that all aspects of public welfare are taken into account. Stakeholder participation is critical to making and successfully implementing sound, cost-effective, risk-informed decisions. Iteration is the process of continuing to refine the analysis base on information available, and improve the decisions and actions that can be taken at any point in time. Together these principles outline a fair, responsive approach to making the decisions necessary to effectively respond to the impacts of an RDD or IND incident.

Risk management is the process of identifying, evaluating, selecting, and implementing actions to reduce risk to public health and the environment. The goal of risk management is scientifically sound, cost-effective, integrated actions that reduce or prevent public health impacts while taking into account social, cultural, ethical, public policy, and legal considerations. In order to accomplish this goal, information will be needed on the nature and magnitude of the hazard present as a result of the incident, the options for reducing risks, and the effectiveness and costs of those options. Decision makers also compare the economic, social, cultural, ethical, legal, and public policy implications associated with each option, as well as the unique safety and health hazards facing emergency responders and ecological hazards the cleanup actions themselves may cause. Often a stakeholder working group can provide input needed to consider all of the relevant information.

Stakeholders can provide valuable input to decision makers during the long-term cleanup effort, and the key decision makers should establish a process that provides for appropriate stakeholder input. Identifying which stakeholders need to be involved in the process depends on the situation. In the case of a site contaminated as a result of an RDD or IND incident, stakeholders may include individuals whose health, economic well-being, and quality of life are currently affected or would be affected by the cleanup and the site's subsequent use, or nonprofit organizations representing such individuals. They may also include those who have

<sup>6</sup> Risk per dose of a fatal cancer for members of the general public is assumed to be about  $6 \times 10^{-4}$  per *rem*. Cancer incidence is assumed to be about  $8 \times 10^{-4}$  per *rem* (see Federal Guidance Report No. 13). Occupational risk coefficients are slightly higher.

regulatory responsibility, and those who may speak on behalf of the environment generally, business and economics, or future generations.

Stakeholder input should be considered throughout all stages of the framework as appropriate, including analyzing the risks, identifying potential cleanup options, evaluating options, selecting an approach, and evaluating the effectiveness of the action afterwards. Their input will assist decision makers in providing a reasoned basis for actions to be taken. Further information on the importance and selection of stakeholders can be found in the Framework for Environmental Health Risk Management.

Decision makers can also benefit from the use of working groups that provide expert technical advice regarding the decisions that need to be made during the long-term recovery process. Further information on how to incorporate the use of technical working groups is provided later in this appendix.

*(a) The Stages of the Risk Management Framework for Responding to RDD and IND Incidents*

The "Framework for Environmental Health Risk Management" has six stages:

1. Define the problem and put it in context.
2. Analyze the risks associated with the problem in context.
3. Examine options for addressing the risks.
4. Make decisions about which options to implement.
5. Take actions to implement the decisions.
6. Evaluate results of the actions taken.

Risk management decisions under this framework should do the following:

- Clearly articulate all of the problems in their public health and ecological contexts, not just those associated with radiation.
- Emerge from a decision-making process that elicits the views of those affected by the decision.
- Be based on the best available scientific, economic, and other technical evidence.
- Be implemented with stakeholder support in a manner that is effective, expeditious, and flexible.
- Be shown to have a significant impact on the risks of concern.
- Be revised and changed when significant new information becomes available.
- Account for their multi-source, multimedia, multi-chemical, and multi-risk contexts.
- Be feasible, with benefits reasonably related to their costs.
- Give priority to preventing risks, not just controlling them.
- Be sensitive to political, social, legal, and cultural considerations.

**(1) Define the Problems and Put Them in Context**

In the case of RDDs, the initial problem is caused by the dispersal of radioactive material. The incident may also result in the release of other types of contaminants (chemical or biological) or create other types of public health hazards. Individuals exposed may include emergency workers and members of the public, and there may be different associated assumptions; for

example, how long the individuals will be exposed in the future.

The potential for future radiation exposure of the public from the site must be considered within the context of the societal objectives to be achieved, and must examine cleanup options in the context of other risks members of the community face. There may also be broader public health or environmental issues that local governments and public health agencies have to confront and consider.

The goals of the cleanup effort will extend well beyond the reduction of potential delayed radiation health effects, and may include:

- Public health protection goals, including mitigating acute hazards and long-term chronic issues, and protecting children and other sensitive populations.
- Social and economic goals, such as minimizing disruption to communities and businesses, maintaining property values, and protecting historical or cultural landmarks or resources.
- National security goals, such as maintaining and normalizing use of critical highways, airports, or seaports for mass transit; maintaining energy production; and providing for critical communications.
- Public welfare goals, including maintaining hospital capacity, water treatment works, and sewage systems for protection of community health; assuring adequate food, fuel, power, and other essential resources; and providing for the protection or recovery of personal property.

**(2) Analyze the Risks**

To make effective risk management decisions, decision makers and other stakeholders need to know what potential harm a situation poses and how great the likelihood is that people or the environment will be harmed. The nature, extent, and focus of a risk analysis should be guided by the risk management goals. The results of a risk analysis—along with information about public values, statutory requirements, court decisions, equity considerations, benefits, and costs—are used to decide whether and how to manage the risks.

Risk analyses can be controversial, reflecting the important role that both science and judgment play in drawing conclusions about the likelihood of effects on public health and the environment. It is important that risk assessors respect both the scientific foundation of risks and the procedures for making inferences about risks in the absence of adequate data. Risk assessors should provide decision makers and other stakeholders with plausible conclusions about risk that can be made on the basis of the available information. They should also provide decision makers with evaluations of the scientific support for their conclusions, descriptions of major sources of uncertainty, and alternative views.

Stakeholders' perception of a risk can vary substantially depending on such factors as the extent to which the stakeholders are directly affected, whether they have voluntarily assumed the risk or had the risk imposed on them, and the nature of their connection with the cause of the risk. For this reason, risk analyses should characterize

the scientific aspects of a risk and note its subjective, cultural, and comparative dimensions. Stakeholders play an important role in providing information that should be used in risk analyses and in identifying specific health and ecological concerns.

**(3) Examine the Options**

This stage of the risk management process involves identifying potential cleanup options and evaluating their effectiveness, feasibility, costs, benefits, cultural or social impacts, and unintended consequences. This process can begin whenever appropriate, after defining the problem and considering the context. It does not have to wait until the risk analysis is completed, although a risk analysis often will provide important information for identifying and evaluating risk management options. In some cases, examining risk management options may help refine a risk analysis. Risk management goals may be redefined after decision makers and stakeholders gain some appreciation for what is feasible, what the costs and benefits are, and how the process of reducing exposures and risks can improve human and ecological health.

Once potential options have been identified, the effectiveness, feasibility, benefits, detriments, and costs of each option must be assessed to provide input into selecting the best option. Key questions include determining (1) the expected benefits and costs, (2) distribution of benefits and costs across the impacted community, (3) the feasibility of the option given the available time, resources, and any legal, political, statutory, and technology limitations, and (4) whether the option increases certain risks while reducing others. Other adverse consequences may be cultural, political, social, or economic. Adverse economic consequences may include impacts on a community, such as reduced property values or loss of jobs, environmental justice issues, and harming the social fabric of a town or tribe by relocating the people away from an area.

Many risk management options may be unfeasible for social, political, cultural, legal, or economic reasons—or because they do not reduce risks to the extent necessary. For example, removing all the soil from an entire valley that is contaminated with radioactive material may be infeasible. On the other hand, the costs of cleaning up an elementary school may be considered justified by their benefits: Protecting children and returning to daily activities and a sense of normalcy. Of course, the feasibility and cost-effectiveness of an option may change in the future.

**(4) Make a Decision**

A productive stakeholder involvement process can generate important guidance for decision makers. Thus, decisions may reflect negotiation and compromise, as long as risk management goals and intentions are met. In some cases, win-win solutions that allow stakeholders with divergent views to achieve their primary goals are possible. Decision makers should allow the opportunity for public comment on proposed decisions.

Decision makers must weigh the value of obtaining additional information against the need for a decision, however uncertain the

decision may be. Sometimes a decision must be made primarily on a precautionary basis. When sufficient information is available to make a risk management decision, or when additional information or analysis would not contribute significantly to the quality of the decision, the decision should not be postponed.

#### (5) Take Action To Implement the Decision

When options have been evaluated and decisions made, a plan for action should be developed and implemented. The issuance of protective action recommendations is the responsibility of local officials to protect the public and the environment during emergencies: Long-term cleanup decisions have the same basic risk management framework, but entail substantially more analysis and stakeholder involvement. When government officials and stakeholders have agreed on a strategy, cleanup activities should commence. It may take considerable time for these actions to be completed, and additional decisions may often be necessary as the actions proceed.

#### (6) Evaluate the Results

Decision makers and other stakeholders must continue to review what risk management actions have been implemented and how effective these actions have been. Evaluating effectiveness involves monitoring and measuring, as well as comparing actual benefits and costs to estimates made in the decision-making stage. The effectiveness of the process leading to implementation should also be evaluated at this stage. Evaluation provides important information about the following: Whether the actions were successful; whether they accomplished what was intended; whether the predicted benefits and costs were accurate; whether any modifications are needed to the risk management plan to improve success; whether any critical information gaps hindered success; whether any new information has emerged which indicates that a decision or stage of the framework should be revisited; whether unintended consequences have emerged; how stakeholder involvement contributed to the outcome; and what lessons can be learned to guide future risk management decisions, or to improve the decision-making process.

Evaluation is critical to accountability and to ensure efficient use of valuable but limited resources. Tools for evaluation include environmental and health monitoring, research, analyses of costs and benefits, and discussions with stakeholders.

#### (b) Technical Advisory Committee

Making decisions on the appropriate cleanup approaches and levels following an RDD or IND incident will undoubtedly be a challenging task for decision makers. As already noted, the technical issues may be complex. Many potentially competing factors will need to be carefully weighed and decision makers should expect public anxiety in the face of a terrorist act involving radioactive materials. Different regulatory authorities and organizations historically have taken different cleanup approaches for radioactively contaminated industrial sites. Given this context, decision makers will need

to determine how best to obtain the necessary technical input to support these decisions and demonstrate to the public that the final decisions are credible and sound.

There are a variety of ways to approach this situation, and decision makers will need to tailor the process to particular site circumstances. This section describes one approach that is available to decision makers, which is based on the "ad hoc" mechanisms used for coordinating interagency expertise and assessing the effectiveness in general of the cleanup in response to the 2001 anthrax attacks in Washington, DC. For significant decontamination efforts, the key decision makers may choose to convene an independent committee of technical experts to conduct a deliberative and comprehensive post-decontamination review. The committee would evaluate the effectiveness of the decontamination process and make recommendations on whether the decontaminated areas or items may be reoccupied or reused. It is important to note that although this review may enhance the scientific credibility of the final outcome, final cleanup decisions rest with decision makers.

The committee may consist of experts from Federal agencies, State and tribal public health and environmental agencies, universities and private industries, the local health department, and possibly representatives of local workers and the community. To maximize objectivity, the committee should be an independent group that will provide input to the decision makers, not be a part of the decision-making team.

The scientific expertise in the committee should reflect the needs of the decision makers in all aspects of the decontamination process (e.g., environmental sampling, epidemiology, risk assessment, industrial hygiene, statistics, health physics, and engineering). Agencies on the committee may also have representatives on the technical working group, but in order to preserve the objectivity of the committee, it is best to designate different experts to serve on each group. The chair and co-chair of the committee should not be a part of the decision-making group at the site.

The decision makers should develop a charter for the committee that specifies the tasks committee members are intended to perform, the issues they are to consider, and the process they will use in arriving at conclusions and recommendations. The charter should also specify whether the individual members are expected to represent the views of their respective agencies, or just their own opinions as independent scientific experts. Consensus among committee members is desirable, but may not be possible. If consensus cannot be achieved, the charter should specify how decision makers expect the full range of opinions to be reflected in the final committee report.

In general, the technical peer review committee would evaluate pre- and post-decontamination sampling data, the decontamination plan, and any other information key to assessing the effectiveness of the cleanup. Based on this evaluation, the

committee would make recommendations to the decision makers on whether cleanup has reduced contamination to acceptable levels, or whether further actions are needed before re-occupancy.

### Appendix 3—Federal Cleanup Implementation

This appendix provides a federally-recommended approach for environmental cleanup after an RDD or IND incident to accompany the risk management principles outlined in Appendix 2. This approach describes how State and local governments may coordinate with Federal agencies, and the public, consistent with the National Response Framework (NRF). The approach does not attempt to provide detailed descriptions of State and local roles and expertise. It is assumed those details will be provided in State and local level planning documents that address radiological/nuclear terrorism incidents.

This site cleanup approach is intended to function under the NRF with Federal agencies performing work consistent with their established roles, responsibilities, and capabilities. Agencies should be tasked to perform work under the appropriate Emergency Support Function, as a primary or support agency, as described in the NRF. This plan is also designed to be compatible with the Incident Command/Unified Command (IC/UC) structure embodied in the National Incident Management System (NIMS).

The functional descriptions and processes in this approach are provided to address the specific needs and wide range of potential impacts of an RDD or IND incident. During the intermediate phase, site cleanup planners should begin the process described below, under the direction of the on-site IC/UC, and in close coordination with Federal, State and local officials. After early and intermediate phase activities have come to conclusion and only long-term cleanup activities are ongoing, the IC/UC structure may continue to support planning and decision-making for the long-term cleanup. The IC/UC may make personnel changes and structural adaptations to suit the needs of a lengthy, multifaceted and highly visible remediation process. For example, a less formal and structured command, more focused on technical analysis and stakeholder involvement, may be preferable for extended site cleanup than what is required under emergency circumstances.

Radiological and nuclear terrorism incidents cover a broad range of potential scenarios and impacts. This appendix assumes that the Federal Government is a primary funding agent for site cleanup. In particular, the process described for the late phase in section (d)(4) of this document assumes an incident of relatively large size. For smaller incidents, all of the elements in this section may not be warranted. The process should be tailored to the circumstances of the particular incident. Decision makers should recognize that for some radiological/nuclear terrorist incidents, states will take the primary leadership role and contribute significant resources toward cleanup of the site. This section does not

address such a scenario, but states may choose to use the process described here.

This implementation plan does not address law enforcement coordination during terrorism incident responses, including how the FBI will manage on-scene activities immediately following an act of terror. Agencies' roles and responsibilities will be implemented according to the NRF and supporting documents. Also, victim triage and other medical response procedures are beyond the scope of this Guidance. The plan presented in this appendix is not intended to impact site cleanups occurring under other statutory authorities such as EPA's Superfund program, the NRC's decommissioning program, or State-administered cleanup programs.

#### Cleanup Activities Overview

As described earlier in the document, radiological/nuclear emergency responses are often divided roughly into three phases: (1) The early phase, when the plume is active and field data are lacking or not reliable; (2) the intermediate phase, when the plume has passed and field data are available for assessment and analysis; and (3) the late phase, when long-term issues are addressed, such as cleanup of the site. For purposes of this appendix, the response to a radiological or nuclear terrorism incident is divided into two separate, but interrelated and overlapping, processes. The first is comprised of the early and intermediate phases of response, which consists of the immediate and near-term on-scene actions of State, local, and Federal emergency responders under the IC/UC. On-scene actions include incident stabilization, lifesaving activities, dose reduction actions for members of the public and emergency responders, access control and security, emergency decontamination of persons and property, "hot spot" removal actions, and resumption of basic infrastructure functions.

The second process pertains to environmental cleanup, which is initiated soon after the incident (during the intermediate phase) and continues into the late phase. The process starts with convening stakeholders and technical subject matter experts to begin identifying and evaluating options for the cleanup of the site. The environmental cleanup process overlaps the intermediate phase activities described above and should be coordinated with those activities. This process is interrelated with the ongoing intermediate phase activities, and the intermediate phase protective actions continue to apply through the late phase until cleanup is complete.

Cleanup planning and discussions should begin as soon as practicable after an incident to allow for selection of key stakeholders and subject matter experts, planning, analyses, contractual processes, and cleanup activities. States may choose to pre-select stakeholders for major incident recovery coordination. These activities should proceed in parallel with ongoing intermediate phase activities, and coordination between these activities should be maintained. Preliminary remediation activities during the intermediate phase—such as emergency removals, decontamination, resumption of basic infrastructure function, and some

return to normalcy in accordance with intermediate phase PAGs—should not be delayed for the final site remediation decision.

A process for addressing environmental contamination that applies an optimization process for site cleanup is presented below. As described in this document, optimization is a flexible process in which numerous factors are considered to achieve an end result that considers local needs and desires, health risks, costs, technical feasibility, and other factors. The general process outlined below provides decision makers with input from both technical experts and stakeholder representatives, and also provides an opportunity for public comment. The extent and complexity of the process for an actual incident should be tailored to the needs of the specific incident; for smaller incidents, the workgroups discussed below may not be necessary.

The goals of the process described below are: (1) Transparency—the basis for cleanup decisions should be available to stakeholder representatives, and to the public at large; (2) inclusiveness—representative stakeholders should be involved in decision-making activities; (3) effectiveness—technical subject matter experts should analyze remediation options, consider established dose and risk benchmarks, and assess various technologies in order to assist in identifying a final solution that is optimal for the incident; and (4) shared accountability—the final decision to proceed will be made jointly by Federal, State, and local officials.

Under the NRF, FEMA may issue mission assignments to the involved Federal agencies, as appropriate, to assist in response and recovery. Additional funding may be provided to State/local governments to perform response/recovery activities through other mechanisms. The components of the process are as follows:

#### (a) General Management Structure

Planning for the long-term cleanup should begin during the intermediate phase, and at that time, a traditional NIMS response structure should still be in place. However, NIMS was developed specifically for emergency management and may not be the most efficient response structure for long-term cleanup. If the cleanup will extend for years, the IC/UC may decide to transition at some point to a different long-term project management structure.

Under the NRF and NIMS, incidents are managed at the lowest possible jurisdictional level. In most cases, this will be at the level of the Incident Command or Unified Command (IC/UC). The IC/UC directs on-scene tactical operations. Responding local, State, and Federal agencies are represented in the IC/UC and Incident Command Post in accordance with NIMS principles regarding jurisdictional authorities, functional responsibilities, and resources provided. For INDS, and large RDDs, multiple Incident Command Posts (ICPs) may be established to manage the incident with an Area Command or Unified Area Command supporting the ICPs and prioritizing resources and activities among them. If the RDD/IND incident happens on a Federal facility or involves

Federal materials, the representatives in the UC may change appropriately and the response will be conducted according to the applicable Federal procedures.

Issues that cannot be resolved at the IC/UC or Unified Area Command level may be raised with the JFO and JFO Unified Coordination Group for resolution. The JFO coordinates and prioritizes Federal resources, and when applicable, issues mission assignments to Federal agencies under the Stafford Act. Issues that cannot be resolved at the JFO level may be raised to the DHS NOC, senior-level interagency management groups, and the White House Homeland Security Council.

Day-to-day tactical management, planning, and operations for the RDD/IND cleanup process will be managed at the IC/UC level, but for large-scale cleanups, it is expected that the JFO Unified Coordination Group will review proposed cleanup plans and provide strategic and policy direction. The agency(s) with primary responsibility for site cleanup should be represented in the JFO Unified Coordination Group. The IC/UC will need to establish appropriate briefing venues as the cleanup process proceeds, including the affected mayor(s) and Governor(s).

The discussion below assumes a traditional NIMS IC/UC structure; if the IC/UC transitions later to a different management structure for a longer-term cleanup, the IC/UC would need to determine the appropriate way to incorporate the workgroups described below into that structure.

Appendix 2 presented the general steps in the cleanup process: Analyze the risks, examine the options, make and implement a decision, evaluate the results. This process will be managed by the IC/UC, who ultimately determines the structure and organization of the Incident Command Post, but the discussion below provides one recommended approach for managing the cleanup process within a NIMS ICS response structure. The Incident Command Post Planning Section has the lead for response planning activities, working in conjunction with other sections, and would have the lead for development of the optimization analysis, working closely with the Operations Section. The NIMS describes the units that make up the Planning Section, and allows for additional units to be added depending on site-specific needs. NIMS states that for incidents involving the need to coordinate and manage large amounts of environmental sampling and analytical data from multiple sources, an Environmental Unit may be established within the Planning Section to facilitate interagency environmental data management, monitoring, sampling, analysis, assessment, and site cleanup and waste disposal planning. RDD/IND incidents would involve the collection of not only large amounts of radiological data, but also data related to other environmental and health and safety hazards, and would therefore likely warrant the establishment of an Environmental Unit in the Planning Section. Planning for FRMAC radiological sampling and monitoring activities will be integrated into the Planning Section, and coordinated with other Situation and Environmental Unit data management activities.

The IC/UC would assign the responsibility for coordinating and development of the optimization analysis to a specific unit. For incidents in which the contaminated area is small and the analysis is straightforward, the IC/UC may choose to assign such responsibilities to the Environmental Unit. On the other hand, for large incidents requiring more complicated tradeoffs or the evaluation of cleanup goals with broad implications, the IC/UC may choose to establish a separate unit in the Planning Section (for example, a Cleanup Planning Unit) to coordinate the development of the optimization analysis. The IC/UC may then convene a technical working group and a stakeholder working group, managed by the Environmental or Cleanup Planning Unit, to analyze cleanup options and develop recommendations. The Environmental or Cleanup Planning Unit would coordinate working group processes and interactions and report the results of the optimization analysis and workgroup efforts to the IC/UC through the Planning Section Chief.

The development and completion of the optimization analysis is expected to be an iterative process, and for large incidents, the cleanup will likely proceed in phases, most likely from the "outside in" toward the most contaminated areas. The extent of the analysis and process used to develop it would be tailored to the needs of the specific incident, but the following working groups may be convened by the IC/UC to assist decision makers in the optimization process, particularly for large or complex cleanups.

#### (1) Technical Working Group

A technical working group should be convened as soon as practicable, normally within days or weeks of the incident. The technical working group would be managed by the Planning Section Unit that is assigned responsibility for the optimization analysis. The technical working group may or may not be physically located at the ICP. The group may review data and documents, provide input electronically, and meet with incident management officials. The group may also be asked to participate in meetings with the JFO Unified Coordination Group if needed.

*Function:* The technical working group provides multi-agency, multi-disciplinary expert input on the optimization analysis, including advice on technical issues, analysis of relevant regulatory requirements and guidelines, risk analyses, and development of cleanup options. The technical working group would provide expert technical input to the IC/UC; it would not be a decision-making body.

*Makeup:* The technical working group should include selected Federal, State, local, and private sector subject matter experts in such fields as environmental fate and transport modeling, risk analysis, technical remediation options analysis, cost, risk and benefit analysis, health physics/radiation protection, construction remediation practices, and relevant regulatory requirements. The exact selection and balance of subject matter experts is incident-specific. The Advisory Team for the Environment, Food, and Health is comprised of Federal radiological experts in various

fields who may warrant representation on the technical working group.

#### (2) Stakeholder Working Group

The stakeholder working group should be convened as soon as practicable, normally within days or weeks of the incident. The stakeholder working group would be managed by the Planning Section Unit that is assigned responsibility for the optimization analysis. The IC/UC may direct the Public Information Officer (who would coordinate with the JIC) to work with the group, including establishing a process for the group to report out its recommendations. How and where the stakeholder working group would meet to review information and provide its input would need to be determined in conjunction with the group members. The stakeholder working group may also be asked to participate in meetings with the JFO Unified Coordination Group if needed.

*Makeup:* The stakeholder working group should include selected Federal, State, and local representatives; local non-governmental representatives; and local/regional business stakeholders. The exact selection and balance of stakeholders is incident specific.

*Function:* The function of the stakeholder working group is to provide input to the IC/UC concerning local needs and desires for site recovery, proposed cleanup options, and other recommendations. The group should present local goals for the use of the site, prioritizing current and future potential land uses and functions, such as utilities and infrastructure, light industrial, downtown business, and residential land uses. The stakeholder working group would not be a decision-making body.

#### (b) Activities

##### (1) Optimization and Recommendations

The IC/UC directs the management of the optimization analysis through the Planning Section. Technical and stakeholder working groups assist in performing analyses and developing cleanup options and provide input to the IC/UC, and may be asked to participate in meetings with the JFO Unified Coordination Group if needed. The IC/UC reviews the options described in the optimization analysis and selects a proposed approach for site cleanup, in close coordination with Federal, State and local officials. Again, depending on the incident size, it may be necessary to conduct the cleanup in phases. Thus, decisions on cleanup approaches may also be made in phases. As appropriate for the magnitude of the cleanup task, the IC/UC would brief relevant Federal, State, and local government officials on proposed cleanup plans for approval. This may involve the office of the affected mayor and Governor. At the Federal level, it may involve the JFO Unified Coordination Group and higher-level officials.

##### (2) Public Review of Decision

The IC/UC should work with the POI and JIC to publish a summary of the process, the options analyzed, and the recommendations for public comments. Public meetings should also be convened at appropriate times. Public comments should be considered and

incorporated as appropriate. A reconvening of the stakeholder and/or technical working groups may be useful for resolving some issues.

#### (3) Execute Cleanup

Cleanup activities should commence as quickly as practicable, and allow for incremental reoccupation of areas as cleanup proceeds. For significant decontamination efforts, the IC/UC may choose to employ a technical peer review advisory committee to conduct a review of the effectiveness of the cleanup. The technical peer review advisory committee is discussed in more detail in Appendix 2.

### Appendix 4—Operational Guidelines for Implementation of Protective Action Guides and Other Activities in RDD or IND Incidents

During all phases of an incident, many decisions will need to be made at the field-level, such as making protective action decisions, opening critical infrastructure, limited re-entry of citizens to homes or businesses, release of personal property, and others. This appendix presents operational guidelines being developed to assist decision makers and emergency responders in implementing protective actions and making other on-site decisions.<sup>7</sup> Operational guidelines are levels of radiation or concentrations of radionuclides that can be accurately measured by radiation detection and monitoring equipment that can then be compared to PAGs, or field-level radiation dose decision points (such as for the release of personal property) to quickly determine what action should be taken. In most situations, the operational guidelines will be given in terms of external gamma rates or media-specific (e.g., surfaces, soil, or water) radionuclide concentration units. Both external and internal exposure potential were considered in the development of the operational guidelines.

This appendix discusses the operational guidelines qualitatively and does not provide actual numeric values. The operational guidelines are being developed to provide reasonable assurance that field-level radiation dose decision points and the PAGs recommended in this document can be met under different circumstances. The operational guidelines also address, to some extent, the impact of protective actions, such as controlling wash water after rinsing vehicles to remove contamination. Actual conditions may warrant development of incident-specific guidelines. To support this need, the RESRAD-RDD<sup>8</sup> software tool was developed to allow for easy and timely calculation of site-specific operational

<sup>7</sup> For purposes of this appendix, "relocation area" refers to an area that local officials have determined is not safe for prolonged occupation by the public, based on the intermediate phase PAGs, and have recommended that the public be relocated.

<sup>8</sup> RESRAD-RDD is a computer modeling tool developed by the U.S. Department of Energy for calculating radiation concentrations on different media, and doses and dose rates following an RDD incident.

guidelines that can be tailored to the specific emergency and the required response.

The operational guidelines are organized into seven groups that are generally categorized by the phase of emergency response in which they would be implemented or used for planning purposes.

Individual groups are further categorized into subgroups as appropriate. Table 3 summarizes operational guideline groups and subgroups. A summary description of these groups and subgroups is provided below. Detailed descriptions of the operational guidelines, to include their technical

derivation, intended application, and tools to assist in their application, are provided in the Preliminary Report on Operational Guidelines Developed for Use in Emergency Preparedness and Response to a Radiological Dispersal Device Incidents (DOE/HS-0001, available at <http://www.ogcms.energy.gov>).

TABLE 3—OPERATIONAL GUIDELINES: GROUPS AND SUBGROUPS

Groups	Subgroups
A. Access control during emergency response operations .....	1. Life and property-saving measures. 2. Emergency worker demarcation.
B. Early-phase protective action .....	1. Evacuation. 2. Sheltering.
C. Relocation from different areas and critical infrastructure utilization in relocation areas .....	1. Residential areas. 2. Commercial and industrial areas. 3. Other areas, such as parks and monuments. 4. Hospitals and other health care facilities. 5. Critical transport facilities. 6. Water and sewer facilities. 7. Power and fuel facilities.
D. Temporary access to relocation areas for essential activities .....	1. Worker access to businesses for essential actions. 2. Public access to residences for retrieval of property, pets, records.
E. Transportation and access routes .....	1. Bridges. 2. Streets and thoroughfares. 3. Sidewalks and walkways.
F. Release of property from radiologically controlled areas .....	1. Personal property, except wastes. 2. Waste. 3. Hazardous waste.
G. Food consumption .....	4. Real property, such as lands and buildings. 1. Early-phase food guidelines. 2. Early-phase soil guidelines. 3. Intermediate-phase soil guidelines. 4. Intermediate- to late-phase soil guidelines.

*(a) Group A: Access Control During Emergency Response Operations*

These operational guidelines are designed to assist responders in decision making for worker health and safety in the early to intermediate phases of response when the situation has not been fully stabilized or characterized. They are designed to guide responders in establishing radiological control zones or boundaries for the areas directly impacted by the RDD or IND incident where first responders and emergency response personnel are working. They are not intended to restrict emergency worker access, but rather to inform workers of potential radiological hazards that exist in the area and to provide tools to those responsible for radiation protection during response activities. These operational guidelines may be used to restrict the access of nonessential personnel and members of the public to specific areas. Examples of operational guidelines developed in this group include life- and property-saving measures and emergency worker zone demarcation.

Group A operational guidelines are expressed as a series of reference “stay time” tables for responders who may have only limited health physics information and personal protective equipment at the time of the response. For example, the health physics information available to them could include or be limited to measurements of the external

exposure rate, gross alpha surface contamination, beta/gamma surface contamination, and/or air concentration. Radionuclide-specific correction factors as well as radionuclide-specific and respiratory protection-specific tables are also provided. Stay times are provided for a range of doses (i.e., 0.1 rem (.001 Sv), 0.5 rem (.005 Sv), 1 rem (.01 Sv), 2 rem (.02 Sv), 5 rem (.05 Sv), 10 rem (.10 Sv), 25 rem (.25 Sv), 100 rem (1 Sv), many of which correspond to guidelines used for workers and the public).

*(b) Group B: Early-Phase Protective Action (Evacuation or Sheltering)*

Group B operational guidelines are designed to help decision makers make timely protective action decisions, such as whether to evacuate or shelter the general public in the early phase. These operational guidelines are similar to values presented in the FRMAC Assessment Manual for evacuation and sheltering. Group B operational guidelines are typically expressed as limiting concentrations of radioactivity in surface soil.

*(c) Group C: Relocation and Critical Infrastructure Utilization in Affected Areas*

These operational guidelines are intended for early-to intermediate-phase protective actions. They are designed for use in deciding whether to relocate the public from affected areas for a protracted period of time. Screening values are provided to delineate

areas that exceed the relocation PAGs. These areas include residential areas, commercial/ industrial areas, and other areas such as parks, cemeteries, and monuments. Group C operational guidelines also assist in efforts to ensure that facilities critical to the public welfare can continue to operate, if needed. These facilities include hospitals, airports, railroads and ports, water and sewer facilities, and power and fuel facilities. These operational guidelines are typically expressed as soil, building, or street-surface contamination concentrations (e.g., pCi/m<sup>2</sup>).

*(d) Group D: Temporary Access to Relocation Areas for Essential Activities*

Group D operational guidelines pertain to intermediate phase protective actions. They are designed to assist in determining constraints necessary to allow for temporary access to restricted (relocation) areas. For example, the public, or owners/employees of businesses, may need temporary access to residences, or commercial, agricultural, or industrial facilities in order to retrieve essential records, conduct maintenance to protect facilities, prevent environmental damage, attend to animals, or retrieve pets. These operational guidelines describe the level and timeframes at which these actions can be taken without supervision or radiological protections. The public or employees may occasionally (e.g., a few days per month) access areas that do not exceed these guidelines. Temporary access to



relocation areas that exceed these levels should be permitted only under the supervision, or with the permission of, radiation protection personnel. The guidelines are typically expressed in terms of stay-times during which the public or employees may access the areas without receiving a predetermined dose.

*(e) Group E: Transportation and Access Routes*

These operational guidelines apply to intermediate phase actions. They are designed to assist in determining whether transportation routes (e.g., bridges, highways, streets) or access ways (e.g., sidewalks and walkways) may be accessed by the public for general, limited, or restricted use. The relocation PAGs serve as the basis for these operational guidelines. For example, operational guidelines may be defined for industrial or commercial use of various roads, bridges, or access ways. These may be necessary to allow for access between non-relocation areas via a highway that passes through a relocation area or for access to recovery areas in the immediate area of an incident. These operational guidelines assume regular or periodic use and are not appropriate for one-time events, such as evacuation or relocation actions. They are typically expressed as surface contamination concentrations (e.g.,  $\mu\text{Ci}/\text{m}^2$ ).

*(f) Group F: Release of Property From Radiologically Controlled Areas*

Group F operational guidelines are intended for intermediate to long-term recovery-phase protective actions. During response and recovery operations, property and wastes must be cleared from radiologically controlled areas (relocation areas). Property includes personal property, debris and non-radiological wastes, hazardous waste, and real property (e.g., buildings and lands). These operational guidelines support such actions. Because subsequent retrieval of cleared, or released, properties will be difficult, these levels should be consistent with late-phase cleanup goals wherever practicable. For this reason, they should not be applied to property that will continue to be used within controlled areas. These operational guidelines should also be used for screening property that was located outside the controlled area for possible contamination. In general, the operational guidelines in this group provide reasonable assurance that the cleared property is acceptable for long-term, unrestricted use (or appropriate disposition, in the case of wastes) without further radiological reassessment or control.

For personal property such as vehicles and equipment, the operational guideline values were derived using the ANSI N13.12 standard clearance screening levels.<sup>9</sup> These draft operational guidelines are available for review and use as appropriate at <http://www.ogcms.energy.gov>. The guidelines

<sup>9</sup>The American National Standards Institute (ANSI) produces consensus based national standards. ANSI standard N13.12, Surface and Volume Radioactivity Standards for Clearance, can be found at [http://hps.org/hpsc/N13\\_12\\_1999.html](http://hps.org/hpsc/N13_12_1999.html).

establish three property categories: at greater than 200 times ANSI N13.12 screening levels, monitored remediation or control is recommended; at levels between 10 and 200 times the levels, self-remediation (conventional washing) of the property is recommended as soon as practical; and below the self-remediation levels, no control or protective action is necessary.

Operational guidelines for real property (buildings and lands) are designed to assist on-scene decision-making, and in development of the cleanup options described in section (d)(4), Late Phase Guidance, of this document. Section (d)(4) on long-term cleanup incorporates the principle of site-specific optimization, and highlights stakeholder involvement and shared accountability. The guidelines for real property are unique in that there is no one specific, predefined numeric criterion (i.e., expressed in terms of concentration, dose, or risk) on which to base decisions. These guidelines are intended to be utilized in the optimization process, which will likely consider the magnitude and extent of the contamination and the radionuclide(s) involved, the proposed long-term land and building use in the affected areas, the need for expedited recovery, public welfare issues, the cost impacts for each proposed cleanup option, the ecological considerations, and other factors. Real property operational guidelines are provided as reference values (e.g., soil and building-surface concentrations or risks) that can be used as a starting point for evaluating options and impacts relative to a range of dose or risk-based benchmarks (e.g., 500, 100, 25, or 4 millirem per year; lifetime risk ranges, and others) that could be considered as part of cleanup options analysis. Thus, they are not regulatory dose limits or criteria, but serve as concentration values that provide support to the optimization analyses.

*(g) Group G: Food Consumption*

Group G operational guidelines apply to early through long-term recovery phase protective actions, as needed. They are designed to aid in decision making about the need for placing restrictions on consumption of contaminated foods or on agricultural products during and following an RDD or IND incident. Four subgroups were developed (Subgroups G.1–G.4; see Table 4A), which are intended for use in conjunction with the operational guidelines in other groups. Subgroup G.1 guidelines pertain to food consumption in the early response phase immediately after an incident. These guidelines can be used to screen against measured concentrations taken from previously harvested food or from animal products exposed during the incident. Subgroup G.1 guidelines also can be used to determine the need for a food embargo, or restrictions on consumption of contaminated foods. Subgroup G.2 guidelines, soil guidelines, also apply to the early phase of response, but they are intended for use in evaluating crops or animal products exposed during the RDD incident (e.g., after the plume has passed). They serve as a comparison with measured concentrations taken from surface soil in which plant foods and fodder had

been growing during the incident. Subgroups G.3 and G.4 are intended for use of soil in the intermediate to long-term recovery phases and can be used for placing land use restrictions on agricultural activities after an RDD incident. They can be used to determine if crops can be grown on residually contaminated soil to produce a harvest that would be acceptable for public consumption.

*(h) Derivation of Operational Guidelines*

Operational guidelines for each group are being derived through a systematic approach in which, (1) applicable release/exposure scenarios for each group were defined, (2) appropriate human receptors for each scenario were identified, and (3) the receptor doses from applicable exposure pathways were estimated. Operational guidelines (Groups A–G; see Table 4A), which correspond to specific PAGs, were derived for 11 potential RDD radionuclides:<sup>10</sup> Am-241, Cf-252, Cm-244, Co-60, Cs-137, Ir-192, Po-210, Pu-238, Pu-239, Ra-226, and Sr-90. The concepts and overarching methodology used to derive operational guidelines for RDD-related radionuclides could also be generally applied, with modifications, to radionuclides associated with an IND.

Additional RDD or IND incident scenarios were analyzed to support the derivation of the operational guideline groups and subgroups described above. Two of these additional scenarios involve the use of water to flush streets and clean vehicles. Accordingly, operational guidelines for street flushing and cleaning contaminated vehicles are also provided. The operational guidelines will be submitted in the **Federal Register** for comment prior to finalization.

**Appendix 5—References and Resources**

- “Access to Employee and Medical Records.” Occupational Safety and Health Standards. 29 CFR part 1910.1020.
- “Accidental Radioactive Contamination of Human Food and Animal Feeds: Recommendations for State and Local Agencies”, U.S. Department of Health and Human Services, Food and Drug Administration, August 13, 1998.
- “Developing Radiation Emergency Plans for Academic, Medical or Industrial Facilities.” National Council on Radiation Protection and Measurement (NCRP). NCRP Report No. 111 (1991).
- “Framework for Environmental Health Risk Management.” Commission on Risk Assessment and Risk Management (1997).
- “FRMAC Radiological Emergency Response Health and Safety Manual” (May 2001), see, <http://www.nv.doe.gov/nationalsecurity/homelandsecurity/frmac/default.htm>.
- “Guidance: Potassium Iodide as a Thyroid Blocking Agent in Radiation Emergencies.” Food and Drug Administration, 66 FR 64046, Dec. 11, 2001.
- “Hazardous Waste Operations and Emergency Response.” Occupational

<sup>10</sup>These radionuclides were determined by a joint DOE and NRC study to be the most likely sources available for potential terrorist use in an RDD (Interagency Working Group on Radiological Dispersal Devices, May 2003) (DOE/NRC 2003).

- Safety and Health Standards. 29 CFR part 1910.120.
- "Health Effects Summary Tables," Environmental Protection Agency, <http://www.epa.gov/radiation/health/>.
- "Health Risks from Exposure to Low Levels of Ionizing Radiation: BEIR VII Phase 2." National Research Council of The National Academies (2006).
- "Ionizing Radiation." Occupational Safety and Health Standards. 29 CFR part 1910.1096.
- "Key Elements of Preparing Emergency Responders for Nuclear and Radiological Terrorism." National Council on Radiation Protection and Measurements (NCRP). NCRP Commentary No. 19 (2005).
- "Management of Equipment Contaminated with Depleted Uranium or Radioactive Commodities." Army Regulation 700-48 (2002).
- "Management Of Terrorist Events Involving Radioactive Material." National Council on Radiation Protection and Measurements (NCRP). NCRP Report No. 138 (2001).
- "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents" (1992 EPA PAG Manual). EPA 400-R-92-001 (1992).
- National Response Framework, U.S. Department of Homeland Security (2008).
- National Incident Management System, U.S. Department of Homeland Security (2007).
- "National Oil and Hazardous Substances Pollution Contingency Plan." 40 CFR part 300.
- "Occupational Radiation Protection." Department of Energy. 10 CFR part 835.
- "Preliminary Report on Operational Guidelines Developed for Use in Emergency Preparedness and Response to a Radiological Dispersal Device Incident." DOE/HS-0001. <http://www.ogcms.energy.gov>.
- "Protective Action Guides for Radiological Dispersal Device (RDD) and Improvised Nuclear Device (IND) Incidents; Notice." 71 FR 174, Jan. 3, 2006.
- "Radiation Protection Guidance to Federal Agencies for Occupational Exposure." Presidential Directive. 52 FR 2822, Jan. 27, 1987.
- "Radiological Dispersal Devices: An Initial Study to Identify Radioactive Materials of Greatest Concern and Approaches to their Tracking, Tagging, and Disposition." DOE/NRC Interagency Working Group on Radiological Dispersal Devices, Report to the NRC and the Secretary of Energy (2003).
- "Reporting and Recording Occupational Injuries and Illnesses." U.S. Department of Energy Occupational Safety and Health Standards. 29 CFR part 1904.
- "Risks from Low-Level Environmental Exposure to Radionuclides," Federal Guidance Report 13, Environmental Protection Agency, January 1998, EPA 402-R-97-014.
- "Standards for Cleanup Of Land and Buildings Contaminated with Residual Radioactive Materials from Inactive Uranium Processing Sites." Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings. 40 CFR part 192.10-12.
- "Standards for Protection Against Radiation." Nuclear Regulatory Commission. 10 CFR part 20.
- "Surface and Volume Radioactivity Standards for Clearance." American National Standards Institute (ANSI), N13.12 (1999).
- ### Appendix 6—Acronyms/Glossary
- AMS** Aerial Measuring System—A DOE technical asset consisting of both fixed wing and helicopter systems for measuring radiation on the ground; a deployable asset of the NIRT.
- ALARA** As low as reasonably achievable—A process to control or manage radiation exposure to individuals and releases of radioactive material to the environment so that doses are as low as social, technical, economic, practical, and public welfare considerations permit.
- ANSI** American National Standards Institute.
- ARS** Acute Radiation Syndrome.
- CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act, commonly known as Superfund. This legislation was enacted by Congress in 1980 to protect households and communities from abandoned toxic waste sites.
- CFR** Code of Federal Regulations.
- CMS** Consequence Management Site Restoration, Cleanup and Decontamination Subgroup.
- DEST** Domestic Emergency Support Team—A technical advisory team designed to pre-deploy and assist the FBI Special Agent in Charge. The DEST may deploy after an incident to assist the FBI.
- DHS** U.S. Department of Homeland Security.
- DIL** Derived Intervention Level—The concentration of a radionuclide in food expressed in Becquerel/kg which, if present throughout the relevant period of time (with no intervention), could lead to an individual receiving a radiation dose equal to the PAG.
- DOD** U.S. Department of Defense.
- DOE** U.S. Department of Energy.
- DRL** Derived Response Level—A level of radioactivity in an environmental medium that would be expected to produce a dose equal to its corresponding PAG.
- EMP** Electromagnetic Pulse—Electromagnetic radiation from a nuclear explosion.
- EMS** Emergency Medical Service.
- EOC** Emergency Operations Center—A response entity's central command and control center for carrying out emergency management functions.
- EPA** U.S. Environmental Protection Agency.
- ESF** Emergency Support Function—The ESFs provide the structure for coordinating Federal interagency support for domestic incident response.
- FBI** Federal Bureau of Investigation, U.S. Department of Justice.
- FCO** Federal Coordinating Officer—Appointed by the Director of the Federal Emergency Management Agency, on behalf of the President, to coordinate federal assistance to a state affected by a disaster or emergency.
- FDA** Food and Drug Administration, U.S. Department of Health and Human Services.
- FRMAC** Federal Radiological Monitoring and Assessment Center—A coordinating center for Federal, State, and local field personnel performing radiological monitoring and assessment—specifically, providing data collection, data analysis and interpretation, and finished products to decision makers. The FRMAC is a deployable asset of the NIRT administered by DOE. For more information, see <http://www.nv.doe.gov/nationalsecurity/homelandsecurity/frmac/default.htm>.
- FRN** Federal Register Notice.
- Gy** One gray is equal to an absorbed dose (mean energy imparted to a unit of matter mass) of 1 joule/kilogram. 1 gray (Gy) = 10,000 erg/g = 100 rad.
- HHS** U.S. Department of Health and Human Services.
- HAZWOPER** Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120).
- HSPD** Homeland Security Presidential Directive—Executive Order issued to the Federal agencies by the President on matters pertaining to Homeland Security.
- IC/UC** Incident Command/Unified Command—A system to integrate various necessary functions to respond to emergencies. The system is widely used by local responders. Under Unified Command, multiple jurisdictional authorities are integrated.
- ICP** Incident Command Post—The field location where the primary functions are performed. The ICP may be co-located with the incident base or other incident facilities.
- ICRP** International Commission on Radiological Protection.
- ICS** Incident Command System—A standardized, on-scene, all-hazard incident management concept. ICS is based upon a flexible, scalable response organization providing a common framework within which people can work together effectively.
- IND** Improvised Nuclear Device—An illicit nuclear weapon that is bought, stolen, or otherwise obtained from a nuclear State, or a weapon fabricated by a terrorist group from illegally obtained fissile nuclear weapons material and produces a nuclear explosion.
- JFO** Joint Field Office—The operations of the various Federal entities participating in a response at the local level should be collocated in a Joint Field Office whenever possible, to improve the efficiency and effectiveness of Federal incident management activities.
- JFO** Unified Coordination Group JFO structure is organized, staffed and managed in a manner consistent with NIMS principles and is led by the Unified Coordination Group. Personnel from Federal and State departments and agencies, other jurisdictional entities and private sector businesses and NGOs may be requested to staff various levels of the JFO, depending on the requirements of the incident.
- JIC** Joint Information Center—A focal point for the coordination and provision of



- information to the public and media concerning the Federal response to the emergency.
- JOC** Joint Operations Center—The focal point for management and coordination of local, State and Federal investigative/law enforcement activities.
- KI** Potassium Iodide.
- LNT or LNT model**—Linear no-threshold dose-response for which any dose greater than zero has a positive probability of producing an effect (e.g., mutation or cancer). The probability is calculated either from the slope of a linear (L) model or from the limiting slope, as the dose approaches zero, of a linear-quadratic (LQ) model.
- MERRT** Medical Emergency Radiological Response Team—Provides direct patient treatment, assists and trains local health care providers in managing, handling, and treatment of radiation exposed and contaminated casualties, assesses the impact on human health, and provides consultation and technical advice to local, State, and Federal authorities.
- NCP** National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR part 300)—The Plan provides the organizational structure and procedures for preparing for and responding to discharges of oil and releases of hazardous substances, pollutants, and contaminants.
- NCRP** National Council on Radiation Protection and Measurements.
- NIEHS** National Institute for Environmental Health Sciences.
- NIMS** National Incident Management System—The Homeland Security Act of 2002 and HPSD-5 directed the DHS to develop NIMS. The purpose of the NIMS is to provide a consistent nationwide approach for Federal, State, and local governments to work effectively and efficiently together to prepare for, respond to, and recover from domestic incidents.
- NIRT** Nuclear Incident Response Team—Created by the Homeland Security Act of 2002, the NIRT consists of radiological emergency response assets of the DOE and the EPA. When called upon by the Secretary for Homeland Security for actual or threatened radiological incidents, these assets come under the "authority, direction, and control" of the Secretary.
- NOC** National Operations Center.
- NPP** Nuclear Power Plant.
- NRC** U.S. Nuclear Regulatory Commission.
- NRF** National Response Framework—The successor to the National Response Plan. The Framework presents the doctrine, principles, and architecture by which our nation prepares for and responds to all-hazard disasters across all levels of government and all sectors of communities.
- OSHA** Occupational Safety and Health Administration, U.S. Department of Labor.
- PAG** Protective Action Guide—The projected dose to a reference individual, from an accidental or deliberate release of radioactive material at which a specific protective action to reduce or avoid that dose is recommended.
- PFO** Principal Federal Official—The PFO will act as the Secretary of Homeland Security's local representative, and will oversee and coordinate Federal activities for the incident.
- PIO** Public Information Officer—The PIO acts as the communications coordinator or spokesperson within the Incident Command System.
- PPE** Personal protective equipment.
- R** Roentgen—Measure of exposure in air.
- Rad** Radiation absorbed dose. One rad is equal to an absorbed dose of 100 *erg/gram* or 0.01 *joule/kilogram*. 1 *rad* = 0.01 *gray* (*Gy*).
- RAP** Radiological Assistance Program—A DOE emergency response asset that can rapid deploy at the request of State or local governments for technical assistance in radiological incidents. RAP teams are a deployable asset of the NIRT.
- RDD** Radiological Dispersal Device—Any device that causes the purposeful dissemination of radioactive material, across an area with the intent to cause harm, without a nuclear detonation occurring.
- REAC/TS** Radiation Emergency Assistance Center/Training Site—A DOE asset located in Oak Ridge, TN, with technical expertise in medical and health assessment concerning internal and external exposure to radioactive materials. REAC/TS is a deployable asset of the NIRT.
- Rem** Roentgen Equivalent Man; the conventional unit of radiation dose equivalent. 1 *rem* = 0.01 *sievert* (*Sv*).
- REMM** Radiation Event Medical Management—A Web-based algorithm providing just-in-time information for medical responders. It is also useful for education and training. Developed by the Office of Assistant Secretary for Preparedness and Response and the National Library of Medicine. Available at <http://www.remm.nlm.gov>.
- RERT** Radiological Emergency Response Team—An EPA team trained to do environmental sampling and analysis of radionuclides. RERT provides assistance during responses and takes over operation of the FRMAC from DOE at a point in time after the emergency phase. RERT is a deployable asset of the NIRT.
- Shelter-in-Place** The use of a structure for radiation protection from an airborne plume and/or deposited radioactive materials.
- SI** International System of Units.
- Stakeholder** A stakeholder is anybody with an interest (a 'stake') in a problem and its solution. The involvement of stakeholders (i.e., parties who have interests in and concern about a situation) is seen as an important input to the optimization process. It is a proven means to achieve incorporation of values into the decision-making process, improvement of the substantive quality of decisions, resolution of conflicts among competing interests, building of shared understanding with both workers and the public, and building of trust in institutions. Furthermore, involving all concerned parties reinforces the safety culture, and introduces the necessary flexibility in the management of the radiological risk that is necessary to achieve more effective and sustainable decisions.
- Sv** *Sievert*; the SI unit of radiation dose equivalent. 1 *Sv* = 100 *rem*.
- TEDE** Total effective dose equivalent—The sum of the effective dose equivalent from external radiation exposure and the committed effective dose equivalent from internal exposure.
- Dated: July 18, 2008.
- Michael Chertoff**,  
Secretary, U.S. Department of Homeland Security.
- [FR Doc. E8-17645 Filed 7-31-08; 8:45 am]  
BILLING CODE 9110-21-P

## DEPARTMENT OF HOMELAND SECURITY

### Transportation Security Administration

#### Extension of Agency Information Collection Activity Under OMB Review: TSA Customer Comment Card

**AGENCY:** Transportation Security Administration, DHS.

**ACTION:** 30 Day Notice.

**SUMMARY:** This notice announces that the Transportation Security Administration (TSA) has forwarded the Information Collection Request (ICR) abstracted below to the Office of Management and Budget (OMB) for review and approval of an extension of the currently approved collection under the Paperwork Reduction Act. The ICR describes the nature of the information collection and its expected burden. TSA published a **Federal Register** notice, with a 60-day comment period soliciting comments, of the following collection of information on May 9, 2008, 73 FR 26404. TSA uses a customer comment card to collect passenger comments including complaints, compliments, and suggestions at airports.

**DATES:** Send your comments by September 2, 2008. A comment to OMB is most effective if OMB receives it within 30 days of publication.

**ADDRESSES:** Interested persons are invited to submit written comments on the proposed information collection to the Office of Information and Regulatory Affairs, Office of Management and Budget. Comments should be addressed to Nathan Lesser, Desk Officer, Department of Homeland Security/TSA, and sent via electronic mail to [oira\\_submission@omb.eop.gov](mailto:oira_submission@omb.eop.gov) or faxed to (202) 395-6974.

**FOR FURTHER INFORMATION CONTACT:** Joanna Johnson, Communications Branch, Business Management Office, Operational Process and Technology, TSA-11, Transportation Security Administration, 601 South 12th Street, Arlington, VA 22202-4220; telephone

## Murphy, Andrew

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**From:** SSA [ssa@cc.memberclicks.com] on behalf of SSA [SSA@seismosoc.org]  
**Sent:** Thursday, March 24, 2011 11:24 AM  
**To:** Murphy, Andrew  
**Subject:** SSA Abstract Deadline 5 pm Tomorrow

SSA has added a special session on the recent earthquakes to the upcoming annual meeting in Memphis. The **deadline to submit abstracts** for the added session is **5 pm PDT tomorrow - Friday March 25**.

To submit an abstract go to: <http://www.seismosoc.org/meetings/2011/absub/>

The cutoff for discounted hotel room rates at the Memphis Marriott is **midnight CDT Saturday, March 26**.

To reserve a room, go to:

[https://resweb.passkey.com/Resweb.do?mode=welcome\\_ei\\_new&eventID=2629107](https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=2629107)

You may continue to **register for the annual meeting online** through **April 1**.

To register, go to: <http://www.seismosoc.org/meetings/2011/registration.php>

We hope to see you in Memphis!

Sincerely,  
SSA Staff

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This email was sent to [andrew.murphy@nrc.gov](mailto:andrew.murphy@nrc.gov) by [SSA@seismosoc.org](mailto:SSA@seismosoc.org)

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**From:** [Program on Negotiation](#)  
**To:** [Coe, Doug](#)  
**Subject:** Advanced Negotiation Workshop: Deal Design and Implementation  
**Date:** Thursday, March 24, 2011 11:25:31 AM

---

Register now for the Harvard Negotiation Institute Workshop



The Harvard Negotiation Institute workshops offer a unique opportunity to learn negotiation skills and practical theory in an enjoyable and intensive learning environment. Our five-day workshops are held on the Harvard Law School campus in Cambridge, Massachusetts, and are taught by leading Harvard faculty and experts in the field. This year, from June 13-17, we hope you can attend the Advanced Negotiation Workshop: Deal Design and Implementation. [Register now!](#)

This course provides participants with a systematic framework and tactical tools for effectively navigating their way through complex business deals. Utilizing case studies and mock negotiations, attendees will not only gain theoretical knowledge but be placed in real-world scenarios where they can utilize the knowledge gained through the course.

The Advanced Negotiation Workshop is taught by Professor [Guhan Subramanian](#) and [David Lax](#). Professor Subramanian is the Joseph Flom Professor of Law and Business at the Harvard Law School and the Douglas Weaver Professor of Business Law at the Harvard Business School. He is the only person in the history of Harvard University to hold tenured appointments at both HLS and HBS. David Lax is the Managing Principal of Lax Sebenius LLC and a Distinguished Fellow of the Harvard Negotiation Project. Professor Subramanian has taught a course of the same name to students at Harvard Law School since 2005. [Click here](#) for an overview of the class from the Harvard Law Bulletin.

Here's what past attendees are saying about the Harvard Negotiation Institute:

"Without a doubt the greatest tool I am bringing to my organization this year; thank you!" -Mauricio Espinosa, Chief Executive Officer, G20, Inc

"Fantastic, hands-on explanations of things in negotiation that should be obvious, but aren't." -Dale Morris, Senior Advisor, Royal Netherlands Embassy

"The simulation exercises, combined with the real-life negotiating experiences of the speakers, do a great job of translating negotiation concepts into real world, practical applications." -Heather Freeman, Manager, Financial Evaluation, Merck & Company, Inc.

"The program exceeded my expectations, both in an academic sense and in the potential for practical implementation." -Robert K. Julian, Chief Financial Officer, Legrand North America

AG/966

“If I implement what I have learned, I will be a fundamentally more confident and skilled negotiator.”-Lois Mary van Waardenberg, General Manager, RHE (Australia)

---

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  - Create sustainable deals and agreements
  - Solve problems
  - Build strong relationships
  - Immediately apply negotiation theory to daily practice
- 

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Can't come for a whole week? [Learn more](#) about our 2-day intensive workshop!

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---

#### More about **Guhan Subramanian**:

Guhan Subramanian is the Joseph Flom Professor of Law and Business at the Harvard Law School and the Douglas Weaver Professor of Business Law at the Harvard Business School. He is the only person in the history of Harvard University to hold tenured appointments at both HLS and HBS. At HLS he teaches courses in negotiations and corporate law. At HBS he teaches in several executive education programs, such as Strategic Negotiations, Changing the Game, Managing Negotiators and the Deal Process, and Making Corporate Boards More Effective. Prior to joining the Harvard faculty he spent three years at McKinsey & Company in their New York, Boston, and Washington, D.C. offices. Professor Subramanian's research explores topics in negotiations, corporate dealmaking, and deal process design. He has published articles in the Stanford Law Review, the Yale Law Journal, the Harvard Business Review, and the Harvard Law Review, among other places. His work has been featured in the Wall Street Journal's "Heard on the Street" column, the New York Times, the American Lawyer, The Deal, and Corporate Control Alert. His new book Negotiauctions: New Dealmaking Strategies for a Competitive Marketplace (Norton 2010) synthesizes the findings from his research and teaching over the past decade. [Click here](#) to read more.

#### More about **David Lax**:

David Lax is Managing Principal of Lax Sebenius LLC, a firm that assists companies and

governments in complex negotiations and competitive bidding. Dr. Lax was a professor at the Harvard Business School and in 1982, he co-founded the Negotiation Roundtable, an ongoing forum in which hundreds of negotiations have been examined to extract their most valuable lessons. He currently serves as a Distinguished Fellow of the Harvard Negotiation Project and teaches in the Advanced Negotiation workshop of the Harvard Negotiation Institute. With Professor James Sebenius, Dr. Lax co-founded and co-taught in Harvard Business School's highly-rated week-long executive education course on Strategic Negotiation. Upon leaving the Harvard Business School full-time faculty, he served as an investment banker representing labor unions and then joined the direct equity investment operation of a wealthy Canadian family, where he was involved in transactions including venture capital investments, acquisitions, leveraged buyouts, joint ventures, privatizations, and financings. [Click here](#) to read more.

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**From:** [West, Stephanie](#)  
**To:** [RidsNrrOd Resource](#); [RidsNroOd Resource](#); [Collins, Jay](#); [Lupold, Timothy](#); [Terao, David](#); [Reichelt, Eric](#); [Hardies, Robert](#); [Lubinski, John](#); [Focht, Eric](#)  
**Cc:** [Rudland, David](#); [Csontos, Aladar](#); [Case, Michael](#); [RidsResOd Resource](#)  
**Subject:** Delivery of Final Report on Evaluation of Fabrication-Related Indications in Reactor Upper Head Penetrations  
**Date:** Thursday, March 24, 2011 11:26:40 AM  
**Attachments:** [ML110410578.APK](#)

---

If you have any questions, please contact David Rudland @ 301-251-7622.

Thank you,

Stephanie West  
Administrative Assistant, RES/DE  
US Nuclear Regulatory Commission  
ph: 301-251-7619  
fax: 301-251-7425  
[stephanie.west@nrc.gov](mailto:stephanie.west@nrc.gov)

AG/967

Attachment ML110410578.APK (107 Bytes) cannot be converted to PDF format.

**From:** EUCL  
**To:** Case, Michael  
**Subject:** Nuclear Power Plant Operations Course  
**Date:** Thursday, March 24, 2011 11:35:51 AM

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## Nuclear Power Plant Operations



July 11-12, 2011 :: Chicago, IL

### Overview

This nuclear power plant (NPP) operations course provides attendees with a clear understanding of how these powerful plants function and produce electricity. The course describes how plants are built, how a nuclear startup is conducted, and how the plant is moved from cold iron to 100 percent power. Plant staffing and full power operations will be addressed, including boration/dilution, fuel rods, and electrical load. Functions of components of the balance-of-plant (outside of the nuclear island) will be described (turbines, generators, and cooling systems). The inherent stability and safety systems of nuclear plants will be covered in detail. Procedures for conducting a refueling outage and discussion of major outage tasks, including refueling, CEA change-outs, component rebuilds, and surveillance testing will be conducted. **Participants will complete the course with full comprehension of and appreciation for the functions of the NPP and the production of electricity in the nuclear environment.**

[PDF Brochure](#) | [Pricing and Registration](#)

### Topics Include

- The fission process, plant startups, and how reactors work
- How plants are staffed and what positions are required in a nuclear plant
- Thermal cycle, heat transfer, and the components of a nuclear plant
- How electricity is produced in a nuclear power plant
- The intricacies of plant safety systems
- What is required in managing refuel outages and how nuclear fuel reloads are accomplished

[Full Agenda](#)

### Instructed By

**Burton A. Grabo, Nuclear Industry Consultant**

Mr. Grabo has over 30 years of experience in the nuclear power industry and began his career as a lead instructor and senior mechanical trainer in the nuclear Navy. He began working in the commercial nuclear industry as a reactor operator and radiation protection worker with Arkansas Nuclear One. Burt has served in many capacities with the Palo Verde Nuclear Generating Station (PVNGS), including as Lead Senior Instructor and Section Leader for Nuclear Training, Nuclear Regulatory Affairs Section Leader, and Nuclear Assurance Operations Section Leader. He also created the maintenance intern program at PVNGS and served as the special project manager for the Nuclear Fuel Management department. During his career, Burt has held reactor and senior reactor operator licenses (including fuel handling) and has written numerous training curriculums and presented lectures in nuclear power plant operations. He holds a Bachelor of Arts degree from Ottawa University and completed nuclear engineering training at Memphis and Arizona State Universities.

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### Testimonials from Past Attendees

"This course provided an excellent overview of nuclear power plant design, operation, and safety considerations."

-*President, EJCON Corp.*

"Fantastic, did not speak over our head, was able to relay info in comprehensive examples. My concerns that the class would exceed my comprehension level diminished right away."

-*Chief estimator, Graycor*

"Very engaging and humorous, knows his stuff and makes students feel comfortable."

-*Engineers, IRS Appeals*

"Great crash course for non-engineers!"

-*Senior recruiter, The Spear Group, Inc.*

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**To:** [Case, Michael](#)  
**Subject:** Travel Authorization Trip Id 2782223 for RICHARDS, STUART pending your approval  
**Date:** Thursday, March 24, 2011 11:37:53 AM

---

Dear eTravel Approver,

Trip id 2782223 has been submitted for your approval. Please access E2 and approve the authorization or return it to the traveler for revisions.

Trip Id : 2782223  
Traveler : RICHARDS, STUART  
Destination: PARIS, FRA  
TDY Type : INTERNATIONAL TRAVEL  
Purpose : Attend CSNI Program Review Group Meeting  
Trip Dates : 2011-04-24 to 2011-04-28  
Status : Pending Authorization Approval

Thank you for using E2 Solutions. Help and support is available online by selecting the 'Find Answers' link. Please note: Replies to this mailbox are not monitored.

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AG/969

## Kauffman, John

---

**From:** Jones, Steve  
**Sent:** Thursday, March 24, 2011 11:56 AM  
**To:** Kauffman, John; Boska, John  
**Subject:** RE: Follow-up to meeting with New York State on IP2/3 Seismic Issues  
**Attachments:** image001.gif

John,

I don't have any involvement with seismic evaluations; NRR/EMCB staff (Meena Khanna is the Branch Chief) has responsibility. However, the spent fuel storage racks would have been seismically evaluated during the last rerack, which would have been in the 90's for both units. I doubt the pool structure has been evaluated by the NRC since initial licensing, but the structures are founded on bedrock, which minimizes seismic concerns.

Steve

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** Jones, Steve; Boska, John  
**Subject:** Follow-up to meeting with New York State on IP2/3 Seismic Issues

Steve, John,

One of the follow-up items from this week's meeting was to learn what seismic evaluations had been done on the IP 2 and 3 SFPs (and when these evaluations were down). Do you have any info or can you point me in the right direction? Thanks in advance.



*John V. Kauffman*

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

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**From:** Flory, Shirley  
**To:** Sheron, Brian; Uhle, Jennifer; Valentin, Andrea; Kardaras, Tom; Case, Michael; Gibson, Kathy; Coe, Doug; Richards, Stuart; Coyne, Kevin; Rini, Brett; Sangimino, Donna-Marie; Dehn, Jeff; Elkins, Scott  
**Subject:** CANCELATION: FRIDAY's (MARCH 25) 8:45 AM RES FRONT OFFICE STANDUP MEETING IS CANCELED.....pls. see message box  
**Date:** Thursday, March 24, 2011 11:56:25 AM

---

If there is anything you should be aware of as a result of the EDO Senior Management Meeting, we will schedule a short staff meeting in the afternoon.

Thanks - Shirley

AG/971

**From:** [Coe, Doug](#)  
**To:** [Barnes, Valerie](#); [Coyne, Kevin](#)  
**Subject:** RE: Doing some work today  
**Date:** Thursday, March 24, 2011 11:59:00 AM

---

Got it – thanks Val.  
Hope you are actually getting some leave in this week!

---

**From:** Barnes, Valerie  
**Sent:** Thursday, March 24, 2011 11:57 AM  
**To:** Coe, Doug; Coyne, Kevin  
**Subject:** Doing some work today

Started at 11:30. OGC sent out a draft FRN for the Part 26 rulemaking on minimum days off for review/comment. I have another WGHOFF report to review and slides now to prep for the meeting in 2 weeks. And, I have some safety culture data analysis discussions planned for this afternoon with Stephanie Morrow. Will also start work on the expert judgment SRM plan.

AG/972

**From:** Security IT Update  
**To:** Case, Michael  
**Subject:** Stuxnet's new game | The telework threat  
**Date:** Thursday, March 24, 2011 12:02:49 PM

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## Security IT Update

3/24/2011

### **How Stuxnet changes the security game**

Organizations need to rethink baseline controls, worry about the integrity of sensors and even question their assumptions about computers not connected to the Internet.

**Telework on the sly: How many feds really work outside the office?**

**Bill would threaten pensions of loose-lipped intell employees**

**After hack, security of RSA SecurID tokens in the hands of customers**

**4 steps to securing your Android**

**U.S. Marshals, Microsoft take down massive spam network**

**DHS buying SBInet-like system for border despite uncertainties. GAO says**

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Sponsored by: Lockheed Martin

Three flavors of cloud computing give agencies options for getting started. Users should mix and match three different types of cloud computing.

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With FISMA reporting through CyberScope which began November 15, 2010 and compliance with monthly reporting commencing on January 1, 2011, agencies must act quickly. Learn how to instrument best practices and solutions to meet the rigors of new FISMA mandates while increasing productivity with automation. [Learn more.](#)

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Data center consolidation is now a top federal IT priority, driving a government-wide effort to reduce IT costs, lower energy consumption, improve IT security and enable a shift to more efficient IT platforms, such as cloud computing. [Learn more.](#)

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**Cyber Command to combat growing cyber threats**

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AG1/973



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---

**From:** [Mobile and Wireless Update](#)  
**To:** [Case, Michael](#)  
**Subject:** Do lawmakers need education to deal with wireless technology?  
**Date:** Thursday, March 24, 2011 12:03:01 PM

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## Mobile and Wireless Update



3/24/2011

### **Lawmakers need 'somebody to educate us' on wireless technologies, senator says**

Senator Michael Jungbauer (R-Minn.) says that states need "somebody to educate us" on wireless innovation to help make policy and infrastructure decisions.

### **Telework on the sly: How many feds really work outside the office?**

### **Telework centers: An idea whose time has come...and gone?**

### **Harris buys government network telecom provider**

### **Where Web access is limited, wireless cloud comes into play**

### **Fire department's iPhone app can help save lives**

### **Spectrum: The looming question for wireless innovation**

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Attacks on mobile networks and devices have grown in both number and sophistication. This report discusses how IT administrators can securely manage mobile devices.

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AG/974



**Public Sector - Data Analytics Manager - PricewaterhouseCoopers - VA**  
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**From:** [Wright USA](#)  
**To:** [Case, Michael](#)  
**Subject:** Wright USA Goes International (Again)  
**Date:** Thursday, March 24, 2011 12:09:11 PM

---



## **Wright USA Goes International (Again)**

Wright USA has always been sensitive to the changing needs of Federal Employees. To better support those living overseas, we are pleased to introduce our new International Dental Plan. It is specifically tailored for active, full-time Expatriate Federal Employees (i.e., those temporarily or permanently residing outside the United States).

Highlights of Wright's new International Dental Plan include:

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- 24/7/365 Multi-lingual Customer Service Center
- Web access and resources for customers and their families

More information about Wright USA's International Dental Plan and World Wide Professional Liability Plan can be obtained by visiting our website. **If you're a Federal Employee living in the U.S., you owe it to yourself to review our Premier and Economy Dental HMO plans that provide comprehensive coverage domestically at affordable rates.**

You can also visit our website to learn more about our other

AG1975

insurance offerings. You can enroll for coverage year-round for all our products; even if you missed us at your Open Season Event.

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**To:** [Hogan, Rosemary](#); [Boyce, Tom \(RES\)](#); [Koshy, Thomas](#); [Csontos, Aladar](#); [Sydnor, Russell](#); [Gavrilas, Mirela](#)  
**Cc:** [Case, Michael](#); [Richards, Stuart](#); [Cherry, Brandon](#); [Bamford, Lisa](#)  
**Subject:** FW: Branch Chief APP Meetings  
**Date:** Thursday, March 24, 2011 12:10:58 PM

---

BC's Please see email below regarding APP meetings. Either Lisa Bamford or myself will be scheduling these, so please let us know if a particular time works for you. Thanks!

Sapna

---

**From:** Schofer, Maria  
**Sent:** Thursday, March 24, 2011 11:28 AM  
**To:** Davis, Chon; Littlejohn, Jennene; Shaffer, Sarah; Bowlin, Elizabeth; Hurd, Sapna  
**Cc:** Bamford, Lisa; Goldfeiz, Banu  
**Subject:** Branch Chief APP Meetings

We are planning to start meeting with the branch chiefs next week to review the APP. We have reserved conference room 5C19, and two laptops. We'll make any needed changes and updates during the meeting.

Please coordinate with your branch chiefs to set-aside ½ hour to 1 hour to review their APP. The length of time can vary from branch to branch depending on the number and complexity of projects.

The time slots are:

Monday 1:30 – 4:00  
Tuesday 1:30 – 4:00  
Wednesday 9 -11:30

Please use the file on the MA site to keep track of the times. It is located under FY 2011 Budget Execution Documents.

<http://portal.nrc.gov/edo/res/pmda/FPMB/MA/default.aspx>

Please let us know if you need help scheduling the meetings or completing your APP.

Thank you,

*Maria Schofer*  
Senior Program Analyst  
RES/PMDA/FPMB  
301-251-7689  
Office: C6D26

AG/976

## Kauffman, John

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 12:20 PM  
**To:** Jones, Steve  
**Subject:** RE: Follow-up to meeting with New York State on IP2/3 Seismic Issues  
**Attachments:** image001.gif

Steve,  
Thanks for the info. I will follow-up with Meena. JVK

---

**From:** Jones, Steve  
**Sent:** Thursday, March 24, 2011 11:56 AM  
**To:** Kauffman, John; Boska, John  
**Subject:** RE: Follow-up to meeting with New York State on IP2/3 Seismic Issues

John,

I don't have any involvement with seismic evaluations; NRR/EMCB staff (Meena Khanna is the Branch Chief) has responsibility. However, the spent fuel storage racks would have been seismically evaluated during the last rerack, which would have been in the 90's for both units. I doubt the pool structure has been evaluated by the NRC since initial licensing, but the structures are founded on bedrock, which minimizes seismic concerns.

Steve

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** Jones, Steve; Boska, John  
**Subject:** Follow-up to meeting with New York State on IP2/3 Seismic Issues

Steve, John,

One of the follow-up items from this week's meeting was to learn what seismic evaluations had been done on the IP 2 and 3 SFPs (and when these evaluations were done). Do you have any info or can you point me in the right direction? Thanks in advance.



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

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**From:** [West, Stephanie](#)  
**To:** [RidsAcrsAcnw MailCTR Resource](#); [Howard, Kent](#); [Karagiannis, Harriet](#); [Santos, Cayetano](#); [Dias, Antonio](#); [Diaz-Sanabria, Yoira](#)  
**Cc:** [Orr, Mark](#); [Boyce, Tom \(RES\)](#); [Case, Michael](#)  
**Subject:** Draft Final Regulatory Guide 8.24, "Health Physics Surveys During Enriched Uranium 235 Processing and Fuel Fabrication"  
**Date:** Thursday, March 24, 2011 12:20:35 PM  
**Attachments:** [ML110700357.APK](#)

---

Greetings from the Regulatory Guide Development Branch -

This memorandum is written to provide the Advisory Committee on Reactor Safeguards (ACRS) an advanced copy of draft final revision 2 of Regulatory Guide 8.24, "Health Physics Surveys During Enriched Uranium 235 Processing and Fuel Fabrication."

Revision 2 of Regulatory Guide 8.24 was issued for public comment as draft regulatory guide DG-8040 on March 22, 2010 (75 FR 13599) and the public comment period closed on May 3, 2010. The draft guide has been revised to incorporate public comments, converted to the final regulatory guide format, and is now in concurrence. This regulatory guide specifies the types and frequencies of surveys that are acceptable to the staff of the Nuclear Regulatory Commission for the protection of workers in plants licensed to process enriched uranium and fabricate uranium fuel.

We request the ACRS determine whether they wish to review Regulatory Guide 8.24 prior to it being issued as final.

Mark Orr

AG/978

Attachment ML110700357.APK (107 Bytes) cannot be converted to PDF format.

## Kauffman, John

---

**From:** Boska, John  
**Sent:** Thursday, March 24, 2011 12:24 PM  
**To:** Kauffman, John; Jones, Steve  
**Cc:** Istar, Ata  
**Subject:** RE: Follow-up to meeting with New York State on IP2/3 Seismic Issues  
**Attachments:** image001.gif

John,  
One obvious resource is the plant UFSAR. These are located on the NRC server Y:/APPS/CDIMAGES/FSAR . Just use My Computer to navigate there. You can then right click and select a desktop shortcut if you wish. For IP2, see section 9.5.2.1.4. (IP3 in same area).  
Another is the review done for license renewal. The NRC's final SER is in NUREG-1930, 2 volumes, ML093170451, ML093170671. There is some SFP work in there.  
Also, Ata Istar is reviewing the Indian Point SFPs, you could contact him.  
Also, in 1996 NRR did a review of the licensing basis for all spent fuel pools, but I don't think there was much seismic review.  
There were license amendments on the spent fuel pools for high-density storage. You can find these in ADAMS by searching using the docket number and date. For IP2, amendment 150 was on 4/19/90. For IP3, see amendment 90, dated 10/12/89.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: [john.boska@nrc.gov](mailto:john.boska@nrc.gov)

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** Jones, Steve; Boska, John  
**Subject:** Follow-up to meeting with New York State on IP2/3 Seismic Issues

Steve, John,

One of the follow-up items from this week's meeting was to learn what seismic evaluations had been done on the IP 2 and 3 SFPs (and when these evaluations were down). Do you have any info or can you point me in the right direction? Thanks in advance.



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

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



**From:** [Leeds, Eric](#)  
**To:** [Virgilio, Martin](#)  
**Cc:** [Johnson, Michael](#)  
**Subject:** RE: Near Term Review  
**Date:** Thursday, March 24, 2011 12:25:00 PM

---

Mike Johnson and I talked about Steve this morning. We're both interested, but we're wary of depleting the regions – the stakeholder interest from the states and the external stakeholders around the plants is huge and with EOC meetings starting, the Regions are going to be very distracted. I think that all regions are planning to have SES managers conduct many of the EOC meetings to provide high-level oversight in getting our messages out. I spoke with Vic McCree and he's interested in helping (Len Wert) but the timing is not ideal.

I plan to go with Bill Ruland.

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

---

**From:** Virgilio, Martin  
**Sent:** Thursday, March 24, 2011 12:53 AM  
**To:** Leeds, Eric  
**Subject:** RE: Near Term Review

OK...thanks. Might be an opportunity to test out Steve Reynolds

---

**From:** Leeds, Eric  
**Sent:** Wednesday, March 23, 2011 7:47 AM  
**To:** Virgilio, Martin  
**Subject:** RE: Near Term Review

Marty –

I'm evaluating my options for dealing with the loss of Jack. I'll let you know how I choose to handle it.

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

---

**From:** Virgilio, Martin  
**Sent:** Wednesday, March 23, 2011 3:05 AM  
**To:** nucfed@aol.com; Miller, Charles; Holahan, Gary; Grobe, Jack; Sanfilippo, Nathan  
**Cc:** Borchardt, Bill; Weber, Michael; Muessle, Mary; Andersen, James; Ash, Darren  
**Subject:** Near Term Review

All

AG/ 980

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.

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:** Boska, John (WRL)  
**To:** Coe, Doug; Beasley, Benjamin  
**Subject:** Documents due to New York State  
**Date:** Thursday, March 24, 2011 12:26:35 PM  
**Importance:** High

---

Please provide me the ML number for the GI-199 risk assessment review report, or a web page link. Thanks.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: john.boska@nrc.gov

AG/981

**From:** [Richards, Stuart](#)  
**To:** [Sheron, Brian](#)  
**Cc:** [Case, Michael](#)  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Date:** Thursday, March 24, 2011 12:33:35 PM

---

Brian

Yes, DOE personnel (Dr. Tim Burchell of ORNL and Dr. Wil Windes of INL) have been invited. However, DOE is not presently conducting research related to understanding graphite fracture; rather, they are in a mode to gather material strength and other property characterizations after limited irradiation.

Our interest is not to solve issues, but rather to understand what the issues are with graphite, in order that we have the knowledge and regulatory guidance to do our safety review and ask the right questions. Attendance at the meeting by DOE will not help us in this regard. Additionally, it will benefit us if research at the international level addresses some of the issues that are likely to come up during our safety reviews.

Some of the regulatory topics that will be covered at the meeting include inservice inspections related to graphite cracking and the sufficiency of ASME Code design margins related to graphite. Graphite fracture in a reactor may directly affect the integrity of fuel and control rod channels, and there is the potential for blockage due to spalling from localized fracturing, so this area is safety significant for a graphite moderated design.

Stu

---

**From:** Sheron, Brian  
**Sent:** Thursday, March 24, 2011 11:10 AM  
**To:** Richards, Stuart  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)

And what research is DOE doing on this issue? Was DOE invited? If not, why not?

---

**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 10:43 AM  
**To:** Sheron, Brian  
**Cc:** Case, Michael; Rivera-Lugo, Richard  
**Subject:** Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Importance:** High

Brian

This request is in regard to a proposed trip for Srimi to London for a meeting on graphite issues.

When Mike and I last discussed the trip with you, you asked for more information on the organization of the meeting.

The meeting is scheduled for April 11 – 13 and is organized by the UK Nuclear

AG/982

Installations Inspectorate (HSE) and EdF Energy, the operator of British AGRs .

The purpose of the meeting is to gather selected experts from around the world (a dozen or so), to establish an understanding on the scope of the problem of graphite fracture in high-temperature gas cooled reactors. Sринi is our expert on graphite.

The value of the meeting to the NRC is that we will draw on the extensive graphite knowledge and experience of other countries to inform our graphite work. Gaining knowledge in this area from others should save us a significant amount of money and time. The meeting will also allow us to be part of the discussion on what future research needs to be done, some of which may be carried out by other countries, potentially saving us the resources to do it ourselves. The outcome of this meeting will also aid NRC's future research planning, and will contribute to the technical basis for staff positions, interim staff guidance development, and regulatory guide development.

It is unlikely that we could gain this information via e-mails and telephone calls. Attendance at the meeting is consistent with our research plan in this area. NRO has advocated drawing on international partners for information on graphite.

We think the potential benefits of this trip to the NRC are significant and recommend approval.

Thanks  
Stu

**From:** PPI Training  
**To:** Case, Michael  
**Subject:** Leading-Edge Systems Engineering Training in Las Vegas  
**Date:** Thursday, March 24, 2011 12:35:07 AM

---



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Kind regards,

**Josh Freeman**

General Manager - Corporate

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**PRESENTER:** Robert

Halligan

**STATUS:** Open for

Registration



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AG/983

- delegate, JT3, USA

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- delegate, Las Vegas, USA

---

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**From:** [Laufer, Richard](#)  
**To:** [Tomon, John](#); [Akstulewicz, Brenda](#); [Bavol, Rochelle](#); [Belmore, Nancy](#); [Brenner, Eliot](#); [Poole, Brooke](#); [Burns, Stephen](#); [Hart, Ken](#); [Hayden, Elizabeth](#); [Joosten, Sandy](#); [Laufer, Richard](#); [Leeds, Eric](#); [Mamish, Nader](#); [Mayberry, Theresa](#); [Muessle, Mary](#); [Powell, Amy](#); [Pulley, Deborah](#); [Quesenberry, Jeannette](#); [RidsEdoDraftSrmVote Resource](#); [RidsOgcMailCenter Resource](#); [Schmidt, Rebecca](#); [Shea, Pamela](#); [Vietti-Cook, Annette](#)  
**Subject:** FW: Commissioner Apostolakis' vote re SECY-11-0027 (ABNORMAL CONCURRENCES))  
**Date:** Thursday, March 24, 2011 12:39:59 PM  
**Attachments:** [GEA-cmt-SP11-0027.pdf](#)  
[image003.png](#)

---

## SECY-11-0027 – REPORT TO CONGRESS ON ABNORMAL OCCURRENCES FISCAL YEAR 2010

Approved with comments.

Rich

---

**From:** Blake, Kathleen  
**Sent:** Thursday, March 24, 2011 12:27 PM  
**To:** Wright, Darlene; Baggett, Steven; Batkin, Joshua; Bozin, Sunny; Bradford, Anna; Bubar, Patrice; Bupp, Margaret; Chairman Temp; Clark, Lisa; Coggins, Angela; Cordes, John; Crawford, Carrie; Davis, Roger; Fopma, Melody; Franovich, Mike; Gibbs, Catina; Hart, Ken; Harves, Carolyn; Herr, Linda; Hipschman, Thomas; KLS Temp; Kock, Andrea; Lepre, Janet; Loyd, Susan; Mamish, Nader; Marshall, Michael; Monninger, John; Orders, William; Pace, Patti; Poole, Brooke; Reddick, Darani; Laufer, Richard; Bavol, Rochelle; Rothschild, Trip; Savoy, Carmel; Sharkey, Jeffrey; Shea, Pamela; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Temp, WCO; Temp, WDM; Thoma, John; Warren, Roberta; Zorn, Jason; Apostolakis, George; Temp, GEA; Tadesse, Rebecca; Castleman, Patrick; Montes, David; Dhir, Neha; Adler, James; Jimenez, Patricia; Muessle, Mary; Nieh, Ho; Ostendorff, William; Warnick, Greg; Sexton, Kimberly; Pearson, Laura  
**Cc:** Lewis, Antoinette  
**Subject:** Commissioner Apostolakis' vote re SECY-11-0027 (ABNORMAL CONCURRENCES))

Commissioner Apostolakis' vote is attached.

AG/984



**NOTATION VOTE**

**RESPONSE SHEET**

**TO:** Annette Vietti-Cook, Secretary  
**FROM:** Commissioner Apostolakis  
**SUBJECT:** SECY-11-0027 – REPORT TO CONGRESS ON  
ABNORMAL OCCURRENCES FISCAL YEAR 2010

Approved  X  Disapproved   Abstain

Not Participating

**COMMENTS:** Below  X  Attached   None

I approve staff's recommendation to include H.B. Robinson in Appendix C to the AO report with the standard transmittal letter and the following edits.

Page 7 of the draft report, replace the diagram with a short text explanation of trigeminal neuralgia such as trigeminal neuralgia is a nerve disorder that causes a stabbing or electric-shock-like pain in the skin of the face.

Page 13 of the draft report; delete the picture, because as labeled it would appear the medical event was caused by a malfunction of Nordion equipment. It is not clear that is the case.

In future reports, staff should normalize the discussion of actions taken by NRC or the State by either including dates of actions in all cases or none and either describing the severity level of all notice of violations or noting only that a notice of violation was issued.

Page C-3, update the first few sentences to reflect that the Groundwater Task Force has completed its review and forwarded its report and recommendations to the Commission.

  
\_\_\_\_\_  
**SIGNATURE**

3/24/11  
\_\_\_\_\_  
**DATE**

Entered on "STARS" Yes  X  No

**From:** [Coyne, Kevin](#)  
**To:** [Peters, Sean](#)  
**Cc:** [Coe, Doug](#)  
**Subject:** RE: POC Meeting tomorrow @ 2:30 in O17-B4  
**Date:** Thursday, March 24, 2011 12:44:03 PM

---

Sean –

I'm assuming Erasmia is available to cover the meeting, correct?

Kevin

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 12:14 PM  
**To:** Peters, Sean; Lois, Erasmia; Valentin, Andrea  
**Cc:** Coyne, Kevin  
**Subject:** FW: POC Meeting tomorrow @ 2:30 in O17-B4

Thanks Andrea

---

**From:** Valentin, Andrea  
**Sent:** Thursday, March 24, 2011 12:07 PM  
**To:** Sheron, Brian  
**Cc:** Coe, Doug; Coyne, Kevin; Colon, Heriberto; Grancorvitz, Teresa  
**Subject:** FW: POC Meeting tomorrow @ 2:30 in O17-B4

Brian/Doug/Kevin,

There is a procurement oversight meeting tomorrow at 2:30. One package that will be reviewed is the modification for Human Reliability Analysis (N6673) and the point of contact is Erasmia. Ron Thompson in the EDO's office said he worked with Erasmia to enter the action information into the new POC SharePoint template. If she is available, she should probably attend the meeting in case they have any questions. Eddie Colon from my staff is available to attend if needed.

Thanks

---

**From:** Seltzer, Rickie  
**Sent:** Thursday, March 24, 2011 8:55 AM  
**To:** Ficks, Ben; Valentin, Andrea; Dambly, Jan  
**Subject:** FW: POC Meeting tomorrow @ 2:30 in O17-B4  
**Importance:** High

Forwarding fyi – you are not expected to attend the POC meeting, but thought you might want to know about the meeting

---

**From:** Seltzer, Rickie  
**Sent:** Thursday, March 24, 2011 8:52 AM  
**To:** Stewart, Sharon; Gusack, Barbara; Sheron, Brian; Uhle, Jennifer; Boyce, Thomas (OIS); Schaeffer, James  
**Cc:** Ash, Darren; Virgilio, Martin; Weber, Michael; Huth, Virginia; Sanchez, Alba; Greene, Kathryn; Hall,

AG 1985

Donald; Bellosi, Susan; Harris, William; Butt, Manon; Blakeney, Catherine; Leedom, James; Branch, Richard; Mauer, Mandy; Defino, Jennifer; Lois, Erasmia; Grancorvitz, Teresa; Rivas, Audrey; Widdup, Joseph; Brusoe, Eric; Thompson, Ronald; Scott, MaryLynn; Flynn, Mark; Bower, Phyllis; Rough, Richard; Givvines, Mary; Landau, Mindy; Cianci, Sandra; Garland, Stephanie; Hasan, Nasreen; Hudson, Sharon; Jimenez, Patricia; Ronewicz, Lynn; Ronewicz, Lynn; Ganpat, Emily; Schumann, Stacy; Raynor, Kathleen

**Subject:** POC Meeting tomorrow @ 2:30 in O17-B4

**Importance:** High

We have held seven Chairman papers pending the Chairman's delegation of contractual authority to the EDO. The Chairman signed the delegation memo yesterday so the POC wants to move the actions as quickly as possible. **The POC will meet tomorrow, Friday, 3/25, on the 7 Chairman papers - ADM-5; RES-1; OIS-1.** The schedule is as follows:

**2:30 –3:15 – ADM**

**3:15 – 3:40 RES**

**3:40 – 4:00 – OIS**

We are working with your staff today to finalize the review documents, which we have transitioned to the new streamlined POC review/approval template. Those documents will be provided to you prior to the meeting. Note that while we have met with staff on the new template, we will also be using this time for additional POC and office feedback on the content and use of the new template.

Rickie

**From:** [Nelson, Robert](#)  
**To:** [Leeds, Eric](#); [Boger, Bruce](#); [Grobe, Jack](#); [Giitter, Joseph](#)  
**Subject:** FYI - TMI-2 Accident Annual Demonstration 3/28/11  
**Date:** Thursday, March 24, 2011 12:48:31 PM

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**From:** Kern, David  
**Sent:** Thursday, March 24, 2011 12:30 PM  
**To:** Bellamy, Ronald; Barber, Scott; Heinly, Justin; Bamford, Peter; Screnci, Diane; Sheehan, Neil; Tiff, Doug; McNamara, Nancy  
**Subject:** Reminder - TMI-2 Accident Annual Demonstration 3/28/11

Local citizens are planning to hold a vigil at Three Mile Island's North Gate on Monday, March 28 to mark the 32nd anniversary of the TMI-2 accident. About 20 people are expected to be in attendance. The vigil is expected to last from 3:30 a.m. to 5:00 a.m. but could extend longer.

Please use extra caution all day on Monday when entering and leaving TMI.

TMI security and Pennsylvania State Police will be closely monitoring the event.

At this point, TMI public affairs has received no additional interest in the vigil from outside media.

Dave

AG/986

**From:** [Rulemaker](#)  
**To:** [Case, Michael](#)  
**Subject:** Rules Published in the Federal Register on March 24, 2011  
**Date:** Thursday, March 24, 2011 12:54:51 PM  
**Attachments:** [AI85-PR-76FR16549.pdf](#)

---

Federal  
Register  
Notices



Attached are PDF versions of NRC rules published in today's Federal Register.

ESBWR Design Certification  
10 CFR Part 52  
RIN 3150-AI85  
NRC-2010-0135  
Proposed rule

To find previously published NRC rulemakings go to: [NRC Notices Tracking](#)

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AG/987

# Proposed Rules

Federal Register

Vol. 76, No. 57

Thursday, March 24, 2011

This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

## NUCLEAR REGULATORY COMMISSION

### 10 CFR Part 52

[NRC-2010-0135]

RIN 3150-AI85

### ESBWR Design Certification

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Proposed rule.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC or Commission) proposes to amend its regulations to certify the Economic Simplified Boiling-Water Reactor (ESBWR) standard plant design. This action is necessary so that applicants or licensees intending to construct and operate an ESBWR design may do so by referencing this design certification rule (DCR). The applicant for certification of the ESBWR design is GE-Hitachi Nuclear Energy (GEH). The public is invited to submit comments on this proposed DCR, the generic design control document (DCD) that would be incorporated by reference into the DCR, and the environmental assessment (EA) for the ESBWR design.

**DATES:** Submit comments on the DCR, DCD and/or EA by June 7, 2011. Submit comments specific to the information collections aspects of this rule by April 25, 2011. Comments received after the above dates will be considered if it is practical to do so, but assurance of consideration cannot be given to comments received after these dates.

**ADDRESSES:** Please include Docket ID NRC-2010-0135 in the subject line of your comments. For instructions on submitting comments and accessing documents related to this action, see Section I, "Submitting Comments and Accessing Information" in the **SUPPLEMENTARY INFORMATION** section of this document. You may submit comments by any one of the following methods.

• *Federal rulemaking Web site:* Go to <http://www.regulations.gov> and search for documents filed under Docket ID

NRC-2010-0135. Address questions about NRC dockets to Carol Gallagher, telephone: 301-492-3668; e-mail: [Carol.Gallagher@nrc.gov](mailto:Carol.Gallagher@nrc.gov).

• *Mail comments to:* Secretary, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, ATTN: Rulemakings and Adjudications Staff.

• *E-mail comments to:* [Rulemaking.Comments@nrc.gov](mailto:Rulemaking.Comments@nrc.gov). If you do not receive a reply e-mail confirming that we have received your comments, contact us directly at 301-415-1966.

• *Hand Deliver comments to:* 11555 Rockville Pike, Rockville, Maryland 20852 between 7:30 a.m. and 4:15 p.m. during Federal workdays (telephone: 301-415-1966).

• *Fax comments to:* Secretary, U.S. Nuclear Regulatory Commission at 301-415-1101.

#### FOR FURTHER INFORMATION CONTACT:

George M. Tartal, Office of New Reactors, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-0016; e-mail: [george.tartal@nrc.gov](mailto:george.tartal@nrc.gov); or Bruce M. Baval, Office of New Reactors, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-6715; e-mail: [bruce.baval@nrc.gov](mailto:bruce.baval@nrc.gov).

#### SUPPLEMENTARY INFORMATION:

##### Table of Contents

- I. Submitting Comments and Accessing Information
- II. Background
- III. Regulatory and Policy Issues
- IV. Technical Evaluation of the ESBWR
- V. Section-by-Section Analysis
  - A. Introduction (Section I)
  - B. Definitions (Section II)
  - C. Scope and Contents (Section III)
  - D. Additional Requirements and Restrictions (Section IV)
  - E. Applicable Regulations (Section V)
  - F. Issue Resolution (Section VI)
  - G. Duration of This Appendix (Section VII)
  - H. Processes for Changes and Departures (Section VIII)
  - I. Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) (Section IX)
  - J. Records and Reporting (Section X)
- VI. Agreement State Compatibility
- VII. Availability of Documents
- VIII. Procedures for Access to Proprietary Information, Sensitive Unclassified Non-Safeguards Information (Including Proprietary Information) and Safeguards Information for Preparation of Comments on the Proposed ESBWR Design Certification Rule
- IX. Plain Language
- X. Voluntary Consensus Standards

- XI. Finding of No Significant Environmental Impact: Availability
- XII. Paperwork Reduction Act Statement
- XIII. Regulatory Analysis
- XIV. Regulatory Flexibility Certification
- XV. Backfitting

#### I. Submitting Comments and Accessing Information

Comments submitted in writing or in electronic form will be posted on the NRC Web site and on the Federal rulemaking Web site, <http://www.regulations.gov>. Because your comments will not be edited to remove any identifying or contact information, the NRC cautions you against including any information in your submission that you do not want to be publicly disclosed. The NRC requests that any party soliciting or aggregating comments received from other persons for submission to the NRC inform those persons that the NRC will not edit their comments to remove any identifying or contact information, and therefore, they should not include any information in their comments that they do not want publicly disclosed.

Documents that are not publicly available because they are considered to be either Sensitive Unclassified Non-Safeguards Information (SUNSI) (including SUNSI constituting "proprietary information"<sup>1</sup>) or Safeguards Information (SGI) may be available to interested persons who may wish to comment on the proposed design certification. Such persons shall follow the procedures described in the Supplementary Information section of this notice, under the heading, "VIII. Procedures for Access to SUNSI (Including Proprietary information) and Safeguards Information for Preparation of Comments on the Proposed ESBWR Design Certification Rule."

You can access publicly available documents related to this document, including the following documents, using the following methods:

- *NRC's Public Document Room (PDR):* The public may examine and have copied, for a fee, publicly available documents at the NRC's PDR, Room O-1F21, One White Flint North, 11555

<sup>1</sup> For purposes of this discussion, "proprietary information" constitutes trade secrets or commercial or financial information that are privileged or confidential, as those terms are used under the Freedom of Information Act (FOIA) and the NRC's implementing regulation at Title 10 of the Code of Federal Regulations (10 CFR), part 9.

Rockville Pike, Rockville, Maryland 20852.

- *NRC's Agencywide Documents Access and Management System (ADAMS)*: Publicly available documents created or received at the NRC are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. From this page, the public can gain entry into ADAMS, which provides text and image files of NRC's public documents. If you do not have access to ADAMS or if there are problems in accessing the documents located in ADAMS, contact the NRC's PDR reference staff at 1-800-397-4209, or 301-415-4737, or by e-mail to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov).

- *Federal Rulemaking Web Site*: Public comments and supporting materials related to this proposed rule can be found at <http://www.regulations.gov> by searching on Docket ID NRC-2010-0135.

## II. Background

Subpart B to 10 CFR part 52 sets forth the process for obtaining standard design certifications. On August 24, 2005 (70 FR 56745), GEH tendered its application for certification of the ESBWR standard plant design with the NRC. The GEH submitted this application in accordance with Subpart B of 10 CFR part 52. The NRC formally accepted the application as a docketed application for design certification (Docket No. 52-010) on December 1, 2005 (70 FR 73311). The pre-application information submitted before the NRC formally accepted the application can be found in ADAMS under Docket No. PROJ0717 (Project No. 717).

The application for design certification of the ESBWR design has been referenced in the following combined license (COL) application as of the date of this document:

Detroit Edison Company, Fermi Unit 3, Docket No. 52-033 (73 FR 73350; December 2, 2008).

## III. Regulatory and Policy Issues

### *Human Factors Operational Programs*

The NRC is implementing existing Commission policy, that operational programs should be excluded from finality except where necessary to find design elements acceptable, in a manner different from other existing design certification rules. This policy is described in the December 6, 1996, staff requirements memorandum (SRM) to SECY-96-077, "Certification of Two Evolutionary Designs," dated April 15, 1996. The NRC proposes to exclude the two Human Factors Engineering (HFE)

operational program elements in Chapter 18 of the ESBWR DCD from the scope of the design approved in the rule. There are 12 elements in the HFE program. Two of the elements concern operational programs (procedures and training) that are not used to assess the adequacy of the HFE design. However, the GEH description of these two HFE operational programs addresses existing NRC guidelines in NUREG-0711, Revision 2, "Human Factors Engineering Program Review Model," which are comprehensive, and go beyond the operational program information needed as input to the HFE design. In addition, the training and procedure elements included in the HFE program are redundant to what is reviewed as part of the operational programs described in Chapter 13 of the Standard Review Plan (NUREG-0800). Accordingly, the NRC is revising the HFE regulatory guidance in NUREG-0711 to address this overlap, but the revised guidance is not expected to be completed until late 2011. In keeping with the established Commission policy of not approving operational program elements through design certification except where necessary to find design elements acceptable, the NRC proposes to exclude the two HFE operational program elements in the ESBWR DCD from the scope of the design approved in the rule. This would be done explicitly in Section VI, Issue Resolution, of the rule, by excluding the two HFE operational program elements from the finality accorded to the design. This exclusion would be unique to the ESBWR design because all other DCDs for the previously certified designs do not include operational program descriptions of HFE training and procedures and the respective DCRs did not include specific exclusions from finality for it.

### *Access to SUNSI and SGI in Connection With License Applications*

In the four currently approved design certifications (10 CFR part 52, Appendices A through D), paragraph VI.E sets forth specific directions on how to obtain access to proprietary information and SGI on the design certification in connection with a license application proceeding referencing that design certification rule. These provisions were developed before the events of September 11, 2001. After September 11, 2001, Congress has changed the statutory requirements governing access to SGI, and the NRC has revised its rules, procedures, and practices governing control of and access to SUNSI and SGI. The NRC now believes that generic direction on

obtaining access to SUNSI and SGI is no longer appropriate for newly approved DCRs. Accordingly, the specific requirements governing access to SUNSI and SGI contained in paragraph VI.E of the four currently approved DCRs should not be included in the design certification rule for the ESBWR. Instead, the NRC should specify the procedures to be used for obtaining access at an appropriate time in the COL proceeding referencing the ESBWR DCR. The NRC intends to include this change in any future amendment or renewal of the existing DCRs. However, the NRC is not planning to initiate rulemaking to change paragraph VI.E of the existing DCRs, in order to minimize unnecessary resource expenditures by both the original DCR applicant and the NRC.

## IV. Technical Evaluation of the ESBWR

The NRC issued a final safety evaluation report (FSER) for the ESBWR design in March 2011. The FSER provides the basis for issuance of a design certification under Subpart B to 10 CFR part 52 and a final design approval under Subpart E to 10 CFR part 52. The GEH has requested the NRC provide its design approval for the ESBWR design under Subpart E. The final design approval for the ESBWR design will be issued before publication of a final rule.

The significant technical issues that were resolved during the review of the ESBWR design are the regulatory treatment of non-safety systems (RTNSS), containment performance, control room cooling, steam dryer methodology, feedwater temperature (FWT) domain, aircraft impact assessment and the use of Code Case N-782.

### *Regulatory Treatment of Non-Safety Systems*

The ESBWR relies on passive systems to perform safety functions credited in the design basis for 72 hours following an initiating event. After 72 hours, non-safety systems, either passive or active, replenish the passive systems in order to keep them operating or perform post-accident recovery functions directly. The ESBWR design also uses nonsafety-related active systems to provide defense-in-depth capabilities for key safety functions provided by passive systems. The challenge during the review was to identify the non-safety systems, structures and components (SSCs) that should receive enhanced regulatory treatment and to identify the appropriate regulatory treatment to be applied to these SSCs. Such SSCs are denoted as "RTNS SSCs." As a result of

the NRC's review, the applicant added Appendix 19A to the DCD to identify the nonsafety systems that perform these post-72 hour or defense-in-depth functions and the basis for their selection. The applicant's selection process was based on the guidance in SECY-94-084, "Policy and Technical Issues Associated with the Regulatory Treatment of Non-Safety Systems in Passive Plant Designs."

To provide reasonable assurance that RTNSS SSCs will be available if called upon to function, the applicant established availability controls in DCD Tier 2, Appendix 19ACM, and Technical Specifications (TS) in DCD Tier 2, Chapter 16, when required by 10 CFR 50.36. The applicant also included all RTNSS SSCs in the reliability assurance program described in Chapter 17 of DCD Tier 2 and applied augmented design standards as described in DCD Tier 2, Section 19A.8.3. The NRC finds the applicant's implementation of the RTNSS process described in the DCD acceptable.

#### *Containment Performance*

The passive containment cooling system (PCCS) maintains the containment within its design pressure and temperature limits for design-basis accidents. The system is passive and does not rely upon moving components or external power for initiation or operation for 72 hours following a loss-of-coolant accident (LOCA). The PCCS and its design basis are described in detail in Section 6.2.2 of the DCD Tier 2. The NRC identified a concern regarding the PCCS long-term cooling capability for the period from 72 hours to 30 days following a LOCA. To address this concern, the applicant proposed additional design features credited after 72 hours to reduce the long-term containment pressure. The features are the PCCS vent fans and passive autocatalytic recombiners as described in DCD Tier 2, Section 6.2.1. These SSCs have been identified in DCD Appendix 19A as RTNSS SSCs.

The applicant provided calculation results to demonstrate that the long-term containment pressure would be acceptable and that the design complies with general design criterion (GDC) 38. The NRC's independent calculations confirmed the applicant's conclusion and the NRC accepts the proposed design and licensing basis. The NRC also raised a concern regarding the potential accumulation of high concentrations of hydrogen and oxygen in the PCCS and isolation condenser system (ICS), which could lead to combustion following a LOCA. The applicant modified the design of the

PCCS and ICS heat exchangers to withstand potential hydrogen detonations. The NRC concludes that the design changes to the PCCS and ICS are acceptable and meet the applicable requirements.

#### *Control Room Cooling*

The ESBWR primarily relies on the mass and structure of the control building to maintain acceptable temperatures for human and equipment performance for up to 72 hours on loss of normal cooling. The NRC had not previously approved this approach for maintaining acceptable temperatures in the control building. The applicant proposed acceptance criteria for the evaluation of the control building structure's thermal performance based on industry and NRC guidelines. The applicant incorporates by reference an analysis of the control building structure's thermal performance as described in Tier 2, Sections 3H, 6.4, and 9.4. The applicant also proposed ITAAC to confirm that an updated analysis of the as-built structure continues to meet the thermal performance acceptance criteria. The NRC finds that the applicant's acceptance criteria are consistent with the advanced light-water reactor control room envelope atmosphere temperature limits in NUREG-1242, "NRC Review of Electric Power Research Institute's Advanced Light Water Reactor Utility Requirements Document," and the use of the wet bulb globe temperature index in evaluation of heat stress conditions as described in NUREG-0700, "Human-System Interface Design Review Guidelines." The NRC finds the control building structure thermal performance analysis and ITAAC acceptable based on the analysis using bounding environmental assumptions which will be confirmed by the ITAAC. Accordingly, the NRC finds that the acceptance criteria, control building structure thermal performance analysis, and the ITAAC, provide reasonable assurance that acceptable temperatures will be maintained in the control building for 72 hours. Therefore, the NRC finds that the control building design in regard to thermal performance conforms to the guidelines of Standard Review Plan Section 6.4 and complies with the requirements of the general design criteria of 10 CFR part 50, Appendix A, GDC 19.

#### *Feedwater Temperature Operating Domain*

In operating boiling-water reactors the recirculation pumps are used in combination with the control rods to control and maneuver reactor power

level during normal power operation. The ESBWR design is unique in that the core is cooled by natural circulation during normal operation, and there are no recirculation pumps. In Chapter 15 of the DCD, GEH references the licensing topical report (LTR) NEDO-33338, Revision 1, "ESBWR Feedwater Temperature Operating Domain Transient and Accident Analysis." This LTR describes a broadening of the ESBWR operating domain, which allows for increased flexibility of operation by adjusting the FWT. This increased flexibility accommodates the so-called "soft" operating practices, which reduce the duty (mechanical stress) to the fuel and minimize the probability of pellet-clad interactions and associated fuel failures.

By adjusting the FWT, the operator can control the reactor power level without control blade motion and with minimum impact on the fuel duty. Control blade maneuvering can also be performed at lower power levels.

To control the FWT, the ESBWR design includes a seventh feedwater heater with high-pressure steam. FWT is controlled by either manipulating the main steam flow to the No. 7 feedwater heater to increase FWT above the temperature normally provided by the feedwater heaters with turbine extraction steam (normal FWT) or by directing a portion of the feedwater flow around the high-pressure feedwater heaters to decrease FWT below the normal FWT. An increase in FWT decreases reactor power, and a decrease in FWT increases reactor power. The applicant provided analyses that demonstrated ample margin to acceptance criteria. The NRC concludes that the applicant has adequately accounted for the effects of the proposed FWT operating domain extension on the nuclear design. Further, the applicant has demonstrated that the fuel design limits will not be exceeded during normal or anticipated operational transients and that the effects of postulated transients and accidents will not impair the capability to cool the core. Based on this evaluation, the NRC concludes that the nuclear design of the fuel assemblies, control systems, and reactor core will continue to meet the applicable regulatory requirements.

#### *Steam Dryer Design Methodology*

As a result of reactor pressure vessel (RPV) steam dryer issues at operating BWRs, the NRC issued revised guidance concerning the evaluation of steam dryers. The guidance requested analysis to show that the dryer will maintain its structural integrity during plant operation in spite of or in the face of



acoustic and hydrodynamic fluctuating pressure loads. This demonstration of RPV steam dryer structural integrity consists of three steps:

(1) Predict the fluctuating pressure loads on the dryer,

(2) Use these fluctuating pressure loads in a structural analysis to qualify the steam dryer design, and

(3) Implement a startup test program for confirming the steam dryer design analysis results during the initial plant power ascension testing.

The Plant Based Load Evaluation (PBLE) methodology is an analytical tool developed by GEH to predict fluctuating pressure loads on the steam dryer. Section 3.9.5 of the DCD references the GEH LTR NEDE-33313P, "ESBWR Steam Dryer Structural Evaluation," which references LTR NEDE-33312P, "ESBWR Steam Dryer Acoustic Load Definition," which references the PBLE load definition method. The PBLE method is described in LTR NEDC-33408P, "ESBWR Steam Dryer-Plant Base Load Evaluation Methodology." This LTR provides the theoretical basis for determining the fluctuating loads on the ESBWR steam dryer, describes the PBLE analytical model, determines the biases and uncertainties of the PBLE formulation, and describes the application of the PBLE method to the evaluation of the ESBWR steam dryer.

The NRC's review of the PBLE methodology concludes that it is technically sound and provides a conservative analytical approach for definition of flow-induced acoustic pressure loading on the ESBWR steam dryer. The application of the PBLE load definition process together with the design criteria from the American Society of Mechanical Engineers (ASME) Code, Section III, Article NG-3000 in combination with the proposed start up test program provide assurance of the structural integrity of the steam dryer. Implementation of the analytical, design, and testing methodology for the ESBWR steam dryer demonstrate conformance with the general design criteria of 10 CFR part 50, Appendix A, GDCs 1, 2, and 4.

#### *Aircraft Impact Assessment*

Under 10 CFR 50.150, which became effective on July 13, 2009, designers of new nuclear power reactors are required to perform an assessment of the effects on the designed facility of the impact of a large, commercial aircraft. An applicant for a new design certification rule is required to submit a description of the design features and functional capabilities identified as a result of the assessment (key design features) in its

DCD together with a description of how the identified design features and functional capabilities show that the acceptance criteria in 10 CFR 50.150(a)(1) are met.

To address the requirements of 10 CFR 50.150, GEH completed an assessment of the effects on the designed facility of the impact of a large, commercial aircraft. The GEH also added Appendix 19D to DCD Tier 2 to describe the design features and functional capabilities of the ESBWR identified as a result of the assessment that ensure the reactor core remains cooled and the spent fuel pool integrity is maintained.

The NRC finds that the applicant has performed an aircraft impact assessment using NRC-endorsed methodology that is reasonably formulated to identify design features and functional capabilities to show, with reduced use of operator action, that the acceptance criteria in 10 CFR 50.150(a)(1) are met. The NRC finds that the applicant adequately describes the key design features and functional capabilities credited to meet 10 CFR 50.150, including descriptions of how the key design features and functional capabilities show that the acceptance criteria in 10 CFR 50.150(a)(1) are met. Therefore, the NRC finds that the applicant meets the applicable requirements of 10 CFR 50.150(b).

#### *Code Case N-782*

Under 10 CFR 50.55a(a)(3), GEH requested NRC approval for the use of Code Case N-782 as a proposed alternative to the rules of Section III Subsection NCA-1140 regarding applied Code Editions and Addenda required by 10 CFR 50.55a(c), (d), and (e). Code Case N-782 provides that the Code Edition and Addenda endorsed in a certified design or licensed by the regulatory authority may be used for systems and components subject to ASME Code, Section III requirements. These alternative requirements are in lieu of the requirements that base the Edition and Addenda on the date of the COL or manufacturing license, or the application for a construction permit, standard design approval, or standard design certification. Reference to Code Case N-782 will be included in component and system design specifications and design reports to permit certification of these specifications and reports to the Code Edition and Addenda cited in the DCD. The NRC's bases for approving the use of Code Case N-782 as a proposed alternative to the requirements of Section III Subsection NCA-1140 under 10 CFR 50.55a(a)(3) for the ESBWR are

described in Section 5.2.1.1.3 of the FSER.

#### *Exemptions*

The NRC is proposing to approve an exemption from 10 CFR 50.34(f)(2)(iv) as it relates to the safety parameter display system. This provision requires an applicant to provide a plant safety parameter display console that will display to operators a minimum set of parameters defining the safety status of the plant, capable of displaying a full range of important plant parameters and data trends on demand and indicating when process limits are being approached or exceeded. The ESBWR design integrates the safety parameter display system into the design of the non-safety related distribution control and information system, rather than use a stand-alone console. The NRC's bases for providing the exemption are described in Section 18.8.3.2 of the FSER.

#### **V. Section-by-Section Analysis**

The following discussion sets forth the purpose and key aspects of each section and paragraph of the proposed ESBWR DCR. All section and paragraph references are to the provisions in the proposed Appendix E to 10 CFR part 52 unless otherwise noted. The NRC has modeled the ESBWR DCR on the existing DCRs, with certain modifications where necessary to account for differences in the ESBWR design documentation, design features, and EA (including severe accident mitigation design alternatives (SAMDAs)). As a result, the DCRs are standardized to the extent practical.

##### *A. Introduction (Section I)*

The purpose of Section I of proposed Appendix E to 10 CFR part 52 (this appendix) is to identify the standard plant design that would be approved by this DCR and the applicant for certification of the standard design. Identification of the design certification applicant is necessary to implement this appendix for two reasons. First, the implementation of 10 CFR 52.63(c) depends on whether an applicant for a COL contracts with the design certification applicant to provide the generic DCD and supporting design information. If the COL applicant does not use the design certification applicant to provide the design information and instead uses an alternate nuclear plant vendor, then the COL applicant must meet the requirements in 10 CFR 52.73. The COL applicant must demonstrate that the alternate supplier is qualified to provide the standard plant design information.

Second, paragraph X.A.1 would require the design certification applicant to maintain the generic DCD throughout the time this appendix may be referenced. Thus, it is necessary to identify the entity to which the requirement in paragraph X.A.1 applies.

#### B. Definitions (Section II)

During development of the first two DCRs, the Commission decided that there would be both generic (master) DCDs maintained by the NRC and the design certification applicant, as well as individual plant-specific DCDs maintained by each applicant and licensee that reference this appendix. This distinction is necessary in order to specify the relevant plant-specific requirements to applicants and licensees referencing the appendix. In order to facilitate the maintenance of the master DCDs, the NRC proposes that each application for a standard design certification be updated to include an electronic copy of the final version of the DCD. The final version would be required to incorporate all amendments to the DCD submitted since the original application as well as any changes directed by the NRC as a result of its review of the original DCD or as a result of public comments. This final version would become the master DCD incorporated by reference in the DCR. The master DCD would be revised as needed to include generic changes to the version of the DCD approved in this design certification rulemaking. These changes would occur as the result of generic rulemaking by the Commission, under the change criteria in Section VIII.

The Commission would also require each applicant and licensee referencing this appendix to submit and maintain a plant-specific DCD as part of the COL Final Safety Analysis Report (FSAR). This plant-specific DCD would include or incorporate by reference the information in the generic DCD. The plant-specific DCD would be updated as necessary to reflect the generic changes to the DCD that the Commission may adopt through rulemaking, plant-specific departures from the generic DCD that the Commission imposed on the licensee by order, and any plant-specific departures that the licensee chooses to make in accordance with the relevant processes in Section VIII. Thus, the plant-specific DCD would function like an updated FSAR because it would provide the most complete and accurate information on a plant's design basis for that part of the plant within the scope of this appendix. Therefore, this appendix would define both a generic DCD and a plant-specific DCD.

Also, the Commission decided to treat the TS in Chapter 16 of the generic DCD as a special category of information and to designate them as generic TS in order to facilitate the special treatment of this information under this appendix. A COL applicant must submit plant-specific TS that consist of the generic TS, which may be modified under paragraph VIII.C, and the remaining plant-specific information needed to complete the TS. The FSAR that is required by 10 CFR 52.79 will consist of the plant-specific DCD, the site-specific portion of the FSAR, and the plant-specific TS.

The terms Tier 1, Tier 2, Tier 2\*, and COL action items (license information) are defined in this appendix because these concepts were not envisioned when 10 CFR part 52 was developed. The design certification applicants and the NRC used these terms in implementing the two-tiered rule structure that was proposed by representatives of the nuclear industry after issuance of 10 CFR part 52. Therefore, appropriate definitions for these additional terms are included in this appendix. The nuclear industry representatives requested a two-tiered structure for the DCRs to achieve issue preclusion for a greater amount of information than was originally planned for the DCRs, while retaining flexibility for design implementation. The Commission approved the use of a two-tiered rule structure in its SRM, dated February 14, 1991, on SECY-90-377, "Requirements for Design Certification under 10 CFR Part 52," dated November 8, 1990. This document and others are available in the Regulatory History of Design Certification (*see* Section VII of this document).

The Tier 1 portion of the design-related information contained in the DCD would be *certified* by this appendix and, therefore, subject to the special backfit provisions in paragraph VIII.A. An applicant who references this appendix would be required to include or incorporate by reference and comply with Tier 1, under paragraphs III.B and IV.A.1. This information consists of an introduction to Tier 1, the system based and non-system based design descriptions and corresponding ITAAC, significant interface requirements, and significant site parameters for the design (refer to Section C.I.1.8 of Regulatory Guide 1.206 for guidance on significant interface requirements and site parameters). The design descriptions, interface requirements, and site parameters in Tier 1 were derived from Tier 2, but may be more general than the Tier 2 information. The NRC staff's evaluation of the Tier 1 information is

provided in Section 14.3 of the FSER. Changes to or departures from the Tier 1 information must comply with Section VIII.A.

The Tier 1 design descriptions serve as requirements for the lifetime of a facility license referencing the design certification. The inspection, test, analysis, and acceptance criterion/criteria (ITAAC) verify that the as-built facility conforms to the approved design and applicable regulations. Under 10 CFR 52.103(g), the Commission must find that the acceptance criteria in the ITAAC are met before authorizing operation. After the Commission has made the finding required by 10 CFR 52.103(g), the ITAAC do not constitute regulatory requirements for licensees or for renewal of the COL. However, subsequent modifications to the facility within the scope of the design certification must comply with the design descriptions in the plant-specific DCD unless changes are made under the change process in Section VIII. The Tier 1 interface requirements are the most significant of the interface requirements for systems that are wholly or partially outside the scope of the standard design. Tier 1 interface requirements must be met by the site-specific design features of a facility that references this appendix. An application that references this appendix must demonstrate that the site characteristics at the proposed site fall within the site parameters (both Tier 1 and Tier 2) (refer to paragraph IV.D of this document).

Tier 2 is the portion of the design-related information contained in the DCD that would be *approved* by this appendix but not certified. Tier 2 information would be subject to the backfit provisions in paragraph VIII.B. Tier 2 includes the information required by 10 CFR 52.47(a) and 52.47(c) (with the exception of generic TS and conceptual design information) and the supporting information on inspections, tests, and analyses that will be performed to demonstrate that the acceptance criteria in the ITAAC have been met. As with Tier 1, paragraphs III.B and IV.A.1 would require an applicant who references this appendix to include or incorporate by reference Tier 2 and to comply with Tier 2, except for the COL action items, including the availability controls in Appendix 19ACM of the generic DCD. The definition of Tier 2 makes clear that Tier 2 information has been determined by the Commission, by virtue of its inclusion in this appendix and its designation as Tier 2 information, to be an approved sufficient method for meeting Tier 1 requirements. However,

there may be other acceptable ways of complying with Tier 1 requirements. The appropriate criteria for departing from Tier 2 information would be specified in paragraph VIII.B. Departures from Tier 2 information would not negate the requirement in paragraph III.B to incorporate by reference Tier 2 information.

A definition of "combined license action items" (COL information), which is part of the Tier 2 information, would be added to clarify that COL applicants who reference this appendix are required to address COL action items in their license application. However, the COL action items are not the only acceptable set of information. An applicant may depart from or omit COL action items, provided that the departure or omission is identified and justified in the FSAR. After issuance of a construction permit or COL, these items would not be requirements for the licensee unless they are restated in the FSAR. For additional discussion, see Section IV.D of this document.

The availability controls, which are set forth in Appendix 19ACM of the generic DCD, would be added to the information that is part of Tier 2 to clarify that the availability controls are not operational requirements for the purposes of paragraph VIII.C. Rather, the availability controls are associated with specific design features. The availability controls may be changed if the associated design feature is changed under paragraph VIII.B. For additional discussion, see Section IV.C of this document.

Certain Tier 2 information has been designated in the generic DCD with brackets and italicized text as "Tier 2\*" information and, as discussed in greater detail in the section-by-section analysis for Section H, a plant-specific departure from Tier 2\* information would require prior NRC approval. However, the Tier 2\* designation expires for some of this information when the facility first achieves full power after the finding required by 10 CFR 52.103(g). The process for changing Tier 2\* information and the time at which its status as Tier 2\* expires is set forth in paragraph VIII.B.6. Some Tier 2\* requirements concerning special preoperational tests are designated to be performed only for the first plant or first three plants referencing the ESBWR DCR. The Tier 2\* designation for these selected tests would expire after the first plant or first three plants complete the specified tests. However, a COL action item requires that subsequent plants also perform the tests or justify that the results of the first-plant-only or first-

three-plants-only tests are applicable to the subsequent plant.

The regulations at 10 CFR 50.59 set forth thresholds for permitting changes to a plant as described in the FSAR without NRC approval. Inasmuch as 10 CFR 50.59 is the primary change mechanism for operating nuclear plants, the Commission believes that future plants referencing the ESBWR DCR should use thresholds as close to 10 CFR 50.59 as is practicable and appropriate for new reactors. Because of some differences in how the change control requirements are structured in the DCRs, certain definitions contained in 10 CFR 50.59 are not applicable to 10 CFR part 52 and are not being included in this proposed rule. The Commission is including a definition for a "departure from a method of evaluation" (paragraph II.G), which is appropriate to include in this rulemaking so that the eight criteria in paragraph VIII.B.5.b will be implemented for new reactors as intended.

#### C. Scope and Contents (Section III)

The purpose of Section III is to describe and define the scope and contents of this design certification and to set forth how documentation discrepancies or inconsistencies are to be resolved. Paragraph III.A is the required statement of the Office of the Federal Register (OFR) for approval of the incorporation by reference of Tier 1, Tier 2, and the generic TS into this appendix. Paragraph III.B requires COL applicants and licensees to comply with the requirements of this appendix. The legal effect of incorporation by reference is that the incorporated material has the same legal status as if it were published in the Code of Federal Regulations. This material, like any other properly-issued regulation, has the force and effect of law. Tier 1 and Tier 2 information, as well as the generic TS, have been combined into a single document called the generic DCD, in order to effectively control this information and facilitate its incorporation by reference into the rule. The generic DCD was prepared to meet the technical information contents of application requirements for design certifications under 10 CFR 52.47(a) and the requirements of the OFR for incorporation by reference under 1 CFR part 51. One of the requirements of the OFR for incorporation by reference is that the design certification applicant must make the generic DCD available upon request after the final rule becomes effective. Therefore, paragraph III.A would identify a GEH representative to be contacted in order to obtain a copy of the generic DCD.

Paragraphs III.A and III.B would also identify the availability controls in Appendix 19ACM of the generic DCD as part of the Tier 2 information. During its review of the ESBWR design, the NRC determined that residual uncertainties associated with passive safety system performance increased the importance of non-safety-related active systems in providing defense-in-depth functions that back-up the passive systems. As a result, GEH developed administrative controls to provide a high level of confidence that active systems having a significant safety role are available when challenged. The GEH named these additional controls "availability controls." The Commission included this characterization in Section III to ensure that these availability controls would be binding on applicants and licensees that reference this appendix and would be enforceable by the NRC. The NRC's evaluation of the availability controls is provided in Chapter 22 of the FSER.

The generic DCD (master copy) for this design certification is electronically accessible under ADAMS Accession No. ML103440266; at the OFR; and at <http://www.regulations.gov> by searching under Docket ID NRC-2010-0135. Copies of the generic DCD would also be available at the NRC's PDR. Questions concerning the accuracy of information in an application that references this appendix will be resolved by checking the master copy of the generic DCD in ADAMS. If the design certification applicant makes a generic change (rulemaking) to the DCD under 10 CFR 52.63 and the change process provided in Section VIII, then at the completion of the rulemaking the NRC would request approval of the Director, OFR, for the revised master DCD. The Commission would require that the design certification applicant maintain an up-to-date copy of the master DCD that includes any generic changes it has made under paragraph X.A.1 because it is likely that most applicants intending to reference the standard design would obtain the generic DCD from the design certification applicant. Plant-specific changes to and departures from the generic DCD would be maintained by the applicant or licensee that references this appendix in a plant-specific DCD under paragraph X.A.2.

In addition to requiring compliance with this appendix, paragraph III.B would clarify that the conceptual design information and GEH's evaluation of SAMDAs are not considered to be part of this appendix. The conceptual design information is for those portions of the plant that are outside the scope of the standard design and are contained in

Tier 2 information. As provided by 10 CFR 52.47(a)(24), these conceptual designs are not part of this appendix and, therefore, are not applicable to an application that references this appendix. Therefore, the applicant would not be required to conform with the conceptual design information that was provided by the design certification applicant. The conceptual design information, which consists of site-specific design features, was required to facilitate the design certification review. Conceptual design information is neither Tier 1 nor Tier 2. Section 1.8.2 of Tier 2 identifies the location of the conceptual design information. The GEH's evaluation of various design alternatives to prevent and mitigate severe accidents does not constitute design requirements. The Commission's assessment of this information is discussed in Section X of this document.

Paragraphs III.C and III.D would set forth the way potential conflicts are to be resolved. Paragraph III.C would establish the Tier 1 description in the DCD as controlling in the event of an inconsistency between the Tier 1 and Tier 2 information in the DCD. Paragraph III.D would establish the generic DCD as the controlling document in the event of an inconsistency between the DCD and the FSER for the certified standard design.

Paragraph III.E would clarify that design activities that are wholly outside the scope of this design certification may be performed using actual site characteristics, provided the design activities do not affect Tier 1 or Tier 2, or conflict with the interface requirements in the DCD. This provision would apply to site-specific portions of the plant, such as the administration building. Because this statement is not a definition, this provision has been located in Section III.

#### D. Additional Requirements and Restrictions (Section IV)

Section IV would set forth additional requirements and restrictions imposed upon an applicant who references this appendix. Paragraph IV.A would set forth the information requirements for these applicants. This paragraph would distinguish between information and/or documents which must actually be *included* in the application or the DCD, versus those which may be *incorporated by reference* (i.e., referenced in the application as if the information or documents were included in the application). Any incorporation by reference in the application should be clear and should specify the title, date, edition, or version of a document, the

page number(s), and table(s) containing the relevant information to be incorporated.

Paragraph IV.A.1 would require an applicant who references this appendix to incorporate by reference this appendix in its application. The legal effect of such an incorporation by reference is that this appendix would be legally binding on the applicant or licensee. Paragraph IV.A.2.a would require that a plant-specific DCD be included in the initial application to ensure that the applicant commits to complying with the DCD. This paragraph would also require the plant-specific DCD to either include or incorporate by reference the generic DCD information. Further, this paragraph would also require the plant-specific DCD to use the same format as the generic DCD and reflect the applicant's proposed exemptions and departures from the generic DCD as of the time of submission of the application. The plant-specific DCD would be part of the plant's FSAR, along with information for the portions of the plant outside the scope of the referenced design. Paragraph IV.A.2.a would also require that the initial application include the reports on departures and exemptions as of the time of submission of the application.

Paragraph IV.A.2.b would require that an application referencing this appendix include the reports required by paragraph X.B for exemptions and departures proposed by the applicant as of the date of submission of its application. Paragraph IV.A.2.c would require submission of plant-specific TS for the plant that consists of the generic TS from Chapter 16 of the DCD, with any changes made under paragraph VIII.C, and the TS for the site-specific portions of the plant that are either partially or wholly outside the scope of this design certification. The applicant must also provide the plant-specific information designated in the generic TS, such as bracketed values (refer to guidance provided in Interim Staff Guidance DC/COL-ISG-8, "Necessary Content of Plant-Specific Technical Specifications").

Paragraph IV.A.2.d would require the applicant referencing this appendix to provide information demonstrating that the proposed site characteristics fall within the site parameters for this appendix and that the plant-specific interface requirements have been met as required by 10 CFR 52.79(d). If the proposed site has a characteristic that does not fall within one or more of the site parameters in the DCD, then the proposed site would be unacceptable for this design unless the applicant seeks an

exemption under Section VIII and provides adequate justification for locating the certified design on the proposed site. Paragraph IV.A.2.e would require submission of information addressing COL action items, identified in the generic DCD as COL information in the application. The COL information identifies matters that need to be addressed by an applicant who references this appendix, as required by Subpart C of 10 CFR part 52. An applicant may differ from or omit these items, provided that the difference or omission is identified and justified in its application. Based on the applicant's difference or omission, the NRC may impose additional licensing requirement(s) on the COL applicant as appropriate. Paragraph IV.A.2.f would require that the application include the information specified by 10 CFR 52.47(a) that is not within the scope of this rule, such as generic issues that must be addressed or operational issues not addressed by a design certification, in whole or in part, by an applicant that references this appendix. Paragraph IV.A.3 would require the applicant to physically include, not simply reference, the SUNSI (including proprietary information) and SGI referenced in the DCD, or its equivalent, to ensure that the applicant has actual notice of these requirements.

Paragraph IV.A.4 would indicate requirements that must be met in cases where the COL applicant is not using the entity that was the original applicant for the design certification (or amendment) to supply the design for the applicant's use. Proposed paragraph IV.A.4 would require that a COL applicant referencing this appendix include, as part of its application, a demonstration that an entity other than GEH Nuclear Energy is qualified to supply the ESBWR certified design unless GEH Nuclear Energy supplies the design for the applicant's use. In cases where a COL applicant is not using GEH Nuclear Energy to supply the ESBWR certified design, the required information would be used to support any NRC finding under 10 CFR 52.73(a) that an entity other than the one originally sponsoring the design certification or design certification amendment is qualified to supply the certified design.

Paragraph IV.B would reserve to the Commission the right to determine in what manner this appendix may be referenced by an applicant for a construction permit or operating license under 10 CFR part 50. This determination may occur in the context of a subsequent rulemaking modifying 10 CFR part 52 or this design

certification rule, or on a case-by-case basis in the context of a specific application for a 10 CFR part 50 construction permit or operating license. This provision is necessary because the previous DCRs were not implemented in the manner that was originally envisioned at the time that 10 CFR part 52 was promulgated. The Commission's concern is with the way ITAAC were developed and the lack of experience with design certifications in license proceedings. Therefore, it is appropriate that the Commission retain some discretion regarding the way this appendix could be referenced in a 10 CFR part 50 licensing proceeding.

#### E. Applicable Regulations (Section V)

The purpose of Section V is to specify the regulations that would be applicable and in effect at the time this proposed design certification is approved (*i.e.*, as of the date specified in paragraph V.A, which would be the date that this appendix is approved by the Commission and signed by the Secretary of the Commission). These regulations would consist of the technically relevant regulations identified in paragraph V.A, except for the regulations in paragraph V.B that would not be applicable to this certified design.

In paragraph V.B, the Commission would identify the regulations that do not apply to the ESBWR design. The Commission has determined that the ESBWR design should be exempt from portions of 10 CFR 50.34 as described in the FSER (NUREG-XXXX) and/or summarized below:

#### (1) Paragraph (f)(2)(iv) of 10 CFR 50.34—Contents of Construction Permit and Operating License Applications: Technical Information

This paragraph requires an applicant to provide a plant safety parameter display console that will display to operators a minimum set of parameters defining the safety status of the plant, capable of displaying a full range of important plant parameters and data trends on demand, and capable of indicating when process limits are being approached or exceeded. The ESBWR design integrates the safety parameter display system into the design of the non-safety related distribution control and information system, rather than use a stand-alone console. The safety parameter display system is described in Section 7.1.5 of the DCD.

The Commission has also determined that the ESBWR design is approved to use the following alternative. Under 10 CFR 50.55a(a)(3), GEH requested NRC approval for the use of Code Case N-782

as a proposed alternative to the rules of Section III, Subsection NCA-1140, regarding applied Code Editions and Addenda required by 10 CFR 50.55a(c), (d), and (e). Code Case N-782 provides that the Code Edition and Addenda endorsed in a certified design or licensed by the regulatory authority may be used for systems and components constructed to ASME Code, Section III requirements. These alternative requirements are in lieu of the requirements that base the Edition and Addenda on the construction permit date. Reference to Code Case N-782 will be included in component and system design specifications and design reports to permit certification of these specifications and reports to the Code Edition and Addenda cited in the DCD. The NRC's bases for approving the use of Code Case N-782 as a proposed alternative to the requirements of Section III Subsection NCA-1140 under 10 CFR 50.55a(a)(3) for ESBWR are described in Section 5.2.1.1.3 of the FSER.

#### F. Issue Resolution (Section VI)

The purpose of Section VI is to identify the scope of issues that would be resolved by the Commission in this rulemaking and, therefore, are "matters resolved" within the meaning and intent of 10 CFR 52.63(a)(5). The section is divided into five parts: paragraph A identifies the Commission's safety findings in adopting this appendix, paragraph B identifies the scope and nature of issues which are resolved by this rulemaking, paragraph C identifies issues which are not resolved by this rulemaking, paragraph D identifies the backfit restrictions applicable to the Commission with respect to this appendix, and paragraph E identifies the availability of secondary references.

Paragraph VI.A would describe the nature of the Commission's findings in general terms and make the findings required by 10 CFR 52.54 for the Commission's approval of this DCR. Furthermore, paragraph VI.A would explicitly state the Commission's determination that this design provides adequate protection of the public health and safety.

Paragraph VI.B would set forth the scope of issues that may not be challenged as a matter of right in subsequent proceedings. The introductory phrase of paragraph VI.B clarifies that issue resolution as described in the remainder of the paragraph extends to the delineated NRC proceedings referencing this appendix. The remainder of paragraph VI.B describes the categories of information for which there is issue

resolution. Specifically, paragraph VI.B.1 would provide that all nuclear safety issues arising from the Atomic Energy Act of 1954, as amended, that are associated with the information in the NRC staff's FSER (NUREG-XXXX), the Tier 1 and Tier 2 information (including the availability controls in Appendix 19ACM of the generic DCD), and the rulemaking record for this appendix are resolved within the meaning of 10 CFR 52.63(a)(5). These resolved issues include the information referenced in the DCD that are requirements (*i.e.*, "secondary references"), as well as all issues arising from proprietary information and SGI that are intended to be requirements, but does not include the HFE processes for procedure development and training program development identified in Sections 18.9 and 18.10 of the generic DCD.

Paragraph VI.B.2 would provide for issue preclusion of SUNSI (including proprietary information) and SGI. Paragraphs VI.B.3, VI.B.4, VI.B.5, and VI.B.6 would clarify that approved changes to and departures from the DCD, which are accomplished in compliance with the relevant procedures and criteria in Section VIII, continue to be matters resolved in connection with this rulemaking. Paragraphs VI.B.4, VI.B.5, and VI.B.6, which would characterize the scope of issue resolution in three situations, use the phrase "but only for that plant." Paragraph VI.B.4 would describe how issues associated with a design certification rule are resolved when an exemption has been granted for a plant referencing the design certification rule. Paragraph VI.B.5 would describe how issues are resolved when a plant referencing the DC rule obtains a license amendment for a departure from Tier 2 information. Paragraph VI.B.6 would describe how issues are resolved when the applicant or licensee departs from the Tier 2 information on the basis of paragraph VIII.B.5, which would waive the requirement for NRC approval. In all three situations, after a matter (*e.g.*, an exemption in the case of paragraph VI.B.4) is addressed for a specific plant referencing a design certification rule, the adequacy of that matter *for that plant* is resolved and would constitute part of the licensing basis for that plant. Therefore, that matter would not ordinarily be subject to challenge in any subsequent proceeding or action for that plant (*e.g.*, an enforcement action) listed in the introductory portion of paragraph IV.B. By contrast, there would be no legally binding issue resolution on that subject matter *for any other plant*, or in

a subsequent rulemaking amending the applicable design certification rule. However, the NRC's consideration of the safety, regulatory or policy issues necessary to the determination of the exemption or license amendment may, in appropriate circumstances, be relied upon as part of the basis for NRC action in other licensing proceedings or rulemaking.

Paragraph VI.B.7 would provide that, for those plants located on sites whose site characteristics fall within the site parameters assumed in the GEH evaluation of SAMDAs, all issues with respect to SAMDAs arising under the National Environmental Policy Act of 1969, as amended (NEPA), associated with the information in the EA for this design and the information regarding SAMDAs in NEDO-33306, Revision 4, "ESBWR Severe Accident Mitigation Design Alternatives" are also resolved within the meaning and intent of 10 CFR 52.63(a)(5). If a deviation from a site parameter is granted, the deviation applicant has the initial burden of demonstrating that the original SAMDA analysis still applies to the actual site characteristics; but, if the deviation is approved, requests for litigation at the COL stage must meet the requirements of 10 CFR 2.309 and present sufficient information to create a genuine controversy in order to obtain a hearing on the site parameter deviation.

Paragraph VI.C would reserve the right of the Commission to impose operational requirements on applicants that reference this appendix. This provision would reflect the fact that only some operational requirements, including portions of the generic TS in Chapter 16 of the DCD, and no operational programs, such as operational QA, were completely or comprehensively reviewed by the NRC in this design certification rulemaking proceeding. Therefore, the special backfit and finality provisions of 10 CFR 52.63 would apply only to those operational requirements that either the NRC completely reviewed and approved, or formed the basis for an NRC safety finding of the adequacy of the ESBWR, as documented in the NRC's safety evaluation report for the ESBWR. This is consistent with the currently approved design certifications in 10 CFR part 52, Appendices A through D. Although information on operational matters is included in the DCDs of each of these currently approved designs, for the most part these design certifications do not provide approval for operational information, and none provide approval for operational "programs" (e.g., emergency preparedness programs,

operational quality assurance programs). Most operational information in the DCD simply serves as "contextual information" (i.e., information necessary to understand the design of certain SSCs and how they would be used in the overall context of the facility). The NRC did not use contextual information to support the NRC's safety conclusions, and such information does not constitute the underlying safety bases for the adequacy of those SSCs. Thus, contextual operational information on any particular topic would not constitute one of the "matters resolved" under paragraph VI.B.

The NRC notes that operational requirements may be imposed on licensees referencing this design certification through the inclusion of license conditions in the license, or inclusion of a description of the operational requirement in the plant-specific FSAR.<sup>2</sup> The NRC's choice of the regulatory vehicle for imposing the operational requirements will depend upon, among other things: (1) Whether the development and/or implementation of these requirements must occur prior to either the issuance of the COL or the Commission finding under 10 CFR 52.103(g), and (2) the nature of the change controls which the NRC believes are appropriate given the regulatory, safety, and security significance of each operational requirement.

Paragraph VI.C would allow the NRC to impose future operational requirements (distinct from design matters) on applicants who reference this design certification. Also, license conditions for portions of the plant within the scope of this design certification (e.g., start-up and power ascension testing), are not restricted by 10 CFR 52.63. The requirement to perform these testing programs is contained in Tier 1 information. However, ITAAC cannot be specified for these subjects because the matters to be addressed in these license conditions cannot be verified prior to fuel load and operation, when the ITAAC are satisfied. Therefore, another regulatory vehicle is necessary to ensure that licensees comply with the matters contained in the license conditions. License conditions for these areas cannot be developed now because this requires the type of detailed design information that will be developed during a COL review. In the absence of

<sup>2</sup> Certain activities, ordinarily conducted following fuel load and therefore considered "operational requirements" but which may be relied upon to support a Commission finding under 10 CFR 52.103(g), may themselves be the subject of ITAAC to ensure their implementation prior to the 10 CFR 52.103(g) finding.

detailed design information to evaluate the need for and develop specific post-fuel load verifications for these matters, the Commission is reserving in this rule the right to impose, at the time of COL issuance, license conditions addressing post-fuel load verification activities for portions of the plant within the scope of this design certification.

Paragraph VI.D would reiterate the restrictions (contained in Section VIII) placed upon the Commission when ordering generic or plant-specific modifications, changes or additions to structures, systems, or components, design features, design criteria, and ITAAC (paragraph VI.D.3 would address ITAAC) within the scope of the certified design.

Paragraph VI.E would provide that the NRC will specify at an appropriate time the procedures for interested persons to obtain access to proprietary information, SUNSI, and SGI information for the ESBWR design certification rule. Access to such information would be for the sole purpose of requesting or participating in certain specified hearings, such as (1) the hearing required by 10 CFR 52.85 where the underlying application references this appendix; (2) any hearing provided under 10 CFR 52.103 where the underlying COL references this appendix; and (3) any other hearing relating to this appendix in which interested persons have the right to request an adjudicatory hearing.

For proceedings where the notice of hearing was published before [EFFECTIVE DATE OF FINAL RULE], the Commission's order governing access to SUNSI and SGI shall be used to govern access to proprietary information, SUNSI, and SGI within the scope of the rulemaking. For proceedings in which the notice of hearing or opportunity for hearing is published after [EFFECTIVE DATE OF FINAL RULE], paragraph VI.E applies and governs access to proprietary information, SUNSI, and SGI. For these proceedings, as stated in paragraph VI.E, the NRC will specify the access procedures at an appropriate time.

For both a hearing required by 10 CFR 52.85 where the underlying application references this appendix, and in any hearing on ITAAC completion under 10 CFR 52.103, the NRC expects to follow its current practice of establishing the procedures by order at the time that the notice of hearing is published in the **Federal Register**. See, for example, Florida Power and Light Co., Combined License Application for the Turkey Point Units 6 & 7, Notice of Hearing, Opportunity To Petition for Leave To Intervene and Associated Order



Imposing Procedures for Access to SUNSI and Safeguards Information for Contention Preparation (75 FR 34777; June 18, 2010); Notice of Receipt of Application for License; Notice of Consideration of Issuance of License; Notice of Hearing and Commission Order and Order Imposing Procedures for Access to SUNSI and Safeguards Information for Contention Preparation; In the Matter of AREVA Enrichment Services, LLC (Eagle Rock Enrichment Facility) (74 FR 38052; July 30, 2009).

#### G. Duration of This Appendix (Section VII)

The purpose of Section VII would be, in part, to specify the period during which this design certification may be referenced by an applicant for a COL, under 10 CFR 52.55. This section would also state that the design certification would remain valid for an applicant or licensee that references the design certification until the application is withdrawn or the license expires. Therefore, if an application references this design certification during the 15-year period, then the design certification would be effective until the application is withdrawn or the license issued on that application expires. Also, the design certification would be effective for the referencing licensee if the license is renewed. The Commission intends for this appendix to remain valid for the life of the plant that references the design certification to achieve the benefits of standardization and licensing stability. This means that changes to, or plant-specific departures from, information in the plant-specific DCD must be made under the change processes in Section VIII for the life of the plant.

#### H. Processes for Changes and Departures (Section VIII)

The purpose of Section VIII would be to set forth the processes for generic changes to, or plant-specific departures (including exemptions) from, the DCD. The Commission adopted this restrictive change process in order to achieve a more stable licensing process for applicants and licensees that reference this DCR. Section VIII is divided into three paragraphs, which correspond to Tier 1, Tier 2, and operational requirements. The language of Section VIII distinguishes between generic changes to the DCD versus plant-specific departures from the DCD. Generic changes must be accomplished by rulemaking because the intended subject of the change is this DCR itself, as is contemplated by 10 CFR 52.63(a)(1). Consistent with 10 CFR 52.63(a)(3), any generic rulemaking changes are applicable to all plants,

absent circumstances which render the change ["modification" in the language of 10 CFR 52.63(a)(3)] "technically irrelevant." By contrast, plant-specific departures could be either a Commission-issued order to one or more applicants or licensees; or an applicant or licensee-initiated departure applicable only to that applicant's or licensee's plant(s), similar to a 10 CFR 50.59 departure or an exemption. Because these plant-specific departures will result in a DCD that is unique for that plant, Section X would require an applicant or licensee to maintain a plant-specific DCD. For purposes of brevity, this discussion refers to both generic changes and plant-specific departures as "change processes."

Section VIII refers to an exemption from one or more requirements of this appendix and the criteria for granting an exemption. The Commission cautions that when the exemption involves an underlying substantive requirement (applicable regulation), then the applicant or licensee requesting the exemption must also show that an exemption from the underlying applicable requirement meets the criteria of 10 CFR 52.7.

#### Tier 1 Information

The change processes for Tier 1 information would be covered in paragraph VIII.A. Generic changes to Tier 1 are accomplished by rulemakings that amend the generic DCD and are governed by the standards in 10 CFR 52.63(a)(1) and 10 CFR 52.63(a)(2). No matter who proposes it, a generic change under 10 CFR 52.63(a)(1) will not be made to a certified design while it is in effect unless the change: (1) is necessary for compliance with Commission regulations applicable and in effect at the time the certification was issued; (2) is necessary to provide adequate protection of the public health and safety or common defense and security; (3) reduces unnecessary regulatory burden and maintains protection to public health and safety and common defense and security; (4) provides the detailed design information necessary to resolve selected design acceptance criteria; (5) corrects material errors in the certification information; (6) substantially increases overall safety, reliability, or security of a facility and the costs of the change are justified; or (7) contributes to increased standardization of the certification information. The rulemakings must provide for notice and opportunity for public comment on the proposed change, as required by 10 CFR 52.63(a)(2). The Commission will give

consideration to whether the benefits justify the costs for plants that are already licensed or for which an application for a permit or license is under consideration.

Departures from Tier 1 may occur in two ways: (1) the Commission may order a licensee to depart from Tier 1, as provided in paragraph VIII.A.3; or (2) an applicant or licensee may request an exemption from Tier 1, as provided in paragraph VIII.A.4. If the Commission seeks to order a licensee to depart from Tier 1, paragraph VIII.A.3 would require that the Commission find both that the departure is necessary for adequate protection or for compliance and that special circumstances are present. Paragraph VIII.A.4 would provide that exemptions from Tier 1 requested by an applicant or licensee are governed by the requirements of 10 CFR 52.63(b)(1) and 52.98(f), which provide an opportunity for a hearing. In addition, the Commission would not grant requests for exemptions that may result in a significant decrease in the level of safety otherwise provided by the design.

#### Tier 2 Information

The change processes for the three different categories of Tier 2 information, namely, Tier 2, Tier 2\*, and Tier 2\* with a time of expiration, would be set forth in paragraph VIII.B. The change process for Tier 2 has the same elements as the Tier 1 change process, but some of the standards for plant-specific orders and exemptions would be different.

The process for generic Tier 2 changes (including changes to Tier 2\* and Tier 2\* with a time of expiration) tracks the process for generic Tier 1 changes. As set forth in paragraph VIII.B.1, generic Tier 2 changes would be accomplished by rulemaking amending the generic DCD and would be governed by the standards in 10 CFR 52.63(a)(1). No matter who proposes it, a generic change under 10 CFR 52.63(a)(1) will not be made to a certified design while it is in effect unless the change: (1) is necessary for compliance with Commission regulations applicable and in effect at the time the certification was issued; (2) is necessary to provide adequate protection of the public health and safety or common defense and security; (3) reduces unnecessary regulatory burden and maintains protection to public health and safety and common defense and security; (4) provides the detailed design information necessary to resolve selected design acceptance criteria; (5) corrects material errors in the certification information; (6) substantially increases overall safety,

reliability, or security of a facility and the costs of the change are justified; or (7) contributes to increased standardization of the certification information. If a generic change is made to Tier 2\* information, then the category and expiration, if necessary, of the new information would also be determined in the rulemaking and the appropriate change process for that new information would apply.

Departures from Tier 2 would occur in five ways: (1) The Commission may order a plant-specific departure, as set forth in paragraph VIII.B.3; (2) an applicant or licensee may request an exemption from a Tier 2 requirement as set forth in paragraph VIII.B.4; (3) a licensee may make a departure without prior NRC approval under paragraph VIII.B.5; (4) the licensee may request NRC approval for proposed departures which do not meet the requirements in paragraph VIII.B.5 as provided in paragraph VIII.B.5.d; and (5) the licensee may request NRC approval for a departure from Tier 2\* information under paragraph VIII.B.6.

Similar to Commission-ordered Tier 1 departures and generic Tier 2 changes, Commission-ordered Tier 2 departures could not be imposed except when necessary either to bring the certification into compliance with the Commission's regulations applicable and in effect at the time of approval of the design certification or to ensure adequate protection of the public health and safety or common defense and security, as set forth in paragraph VIII.B.3. However, the special circumstances for the Commission-ordered Tier 2 departures would not have to outweigh any decrease in safety that may result from the reduction in standardization caused by the plant-specific order, as required by 10 CFR 52.63(a)(4). The Commission determined that it was not necessary to impose an additional limitation similar to that imposed on Tier 1 departures by 10 CFR 52.63(a)(4) and (b)(1). This type of additional limitation for standardization would unnecessarily restrict the flexibility of applicants and licensees with respect to Tier 2 information.

An applicant or licensee would be permitted to request an exemption from Tier 2 information as set forth in paragraph VIII.B.4. The applicant or licensee would have to demonstrate that the exemption complies with one of the special circumstances in 10 CFR 50.12(a). In addition, the Commission would not grant requests for exemptions that may result in a significant decrease in the level of safety otherwise provided by the design. However, the special

circumstances for the exemption do not have to outweigh any decrease in safety that may result from the reduction in standardization caused by the exemption. If the exemption is requested by an applicant for a license, the exemption would be subject to litigation in the same manner as other issues in the license hearing, consistent with 10 CFR 52.63(b)(1). If the exemption is requested by a licensee, then the exemption would be subject to litigation in the same manner as a license amendment.

Paragraph VIII.B.5 would allow an applicant or licensee to depart from Tier 2 information, without prior NRC approval, if the proposed departure does not involve a change to, or departure from, Tier 1 or Tier 2\* information, TS, or does not require a license amendment under paragraphs VIII.B.5.b or VIII.B.5.c. The TS referred to in VIII.B.5.a of this paragraph are the TS in Chapter 16 of the generic DCD, including bases, for departures made prior to issuance of the COL. After issuance of the COL, the plant-specific TS would be controlling under paragraph VIII.B.5. The bases for the plant-specific TS would be controlled by the bases control program, which is specified in the plant-specific TS administrative controls section. The requirement for a license amendment in paragraph VIII.B.5.b would be similar to the requirement in 10 CFR 50.59 and apply to all information in Tier 2 except for the information that resolves the severe accident issues.

The Commission believes that the resolution of ex-vessel severe accident design features should be preserved and maintained in the same fashion as all other safety issues that were resolved during the design certification review (refer to SRM on SECY-90-377, "Requirements for Design Certification Under 10 CFR Part 52," dated February 15, 1991, ADAMS Accession No. ML003707892). However, because of the increased uncertainty in ex-vessel severe accident issue resolutions, the Commission has proposed separate criteria in paragraph VIII.B.5.c for determining if a departure from information that resolves ex-vessel severe accident design features would require a license amendment. For purposes of applying the special criteria in paragraph VIII.B.5.c, ex-vessel severe accident resolutions would be limited to design features where the intended function of the design feature is relied upon to resolve postulated accidents when the reactor core has melted and exited the reactor vessel, and the containment is being challenged. These design features are identified in

Sections 19.2.3, 19.3.2, 19.3.3, 19.3.4, and Appendices 19A and 19B of the DCD, with other issues, and are described in other sections of the DCD. Therefore, the location of design information in the DCD is not important to the application of this special procedure for ex-vessel severe accident design features. However, the special procedure in paragraph VIII.B.5.c would not apply to design features that resolve so-called "beyond design-basis accidents" or other low-probability events. The important aspect of this special procedure is that it would be limited to ex-vessel severe accident design features, as defined above. Some design features may have intended functions to meet "design basis" requirements and to resolve "severe accidents." If these design features are reviewed under paragraph VIII.B.5, then the appropriate criteria from either paragraphs VIII.B.5.b or VIII.B.5.c would be selected depending upon the function being changed.

An applicant or licensee that plans to depart from Tier 2 information, under paragraph VIII.B.5, would be required to prepare an evaluation which provides the bases for the determination that the proposed change does not require a license amendment or involve a change to Tier 1 or Tier 2\* information, or a change to the TS, as explained above. In order to achieve the Commission's goals for design certification, the evaluation would need to consider all of the matters that were resolved in the DCD, such as generic issue resolutions that are relevant to the proposed departure. The benefits of the early resolution of safety issues would be lost if departures from the DCD were made that violated these resolutions without appropriate review.

The evaluation of the relevant matters would need to consider the proposed departure over the full range of power operation from startup to shutdown, as it relates to anticipated operational occurrences, transients, design-basis accidents, and severe accidents. The evaluation would also have to include a review of all relevant secondary references from the DCD because Tier 2 information, which is intended to be treated as a requirement, would be contained in the secondary references. The evaluation should consider Tables 14.3-1a through 14.3-1c and 19.2-3 of the generic DCD to ensure that the proposed change does not impact Tier 1 information. These tables contain cross-references from the safety analyses and probabilistic risk assessment in Tier 2 to the important parameters that were included in Tier 1.



Paragraph VIII.B.5.d addresses information described in the DCD to address aircraft impacts, in accordance with 10 CFR 52.47(a)(28). Under 10 CFR 52.47(a)(28), applicants are required to include the information required by 10 CFR 50.150(b) in their DCD. Under 10 CFR 50.150(b), applications for standard design certifications are required to include:

1. A description of the design features and functional capabilities identified as a result of the aircraft impact assessment required by 10 CFR 50.150(a)(1); and

2. A description of how such design features and functional capabilities meet the assessment requirements in 10 CFR 50.150(a)(1).

An applicant or licensee who changes this information is required to consider the effect of the changed design feature or functional capability on the original aircraft impact assessment required by 10 CFR 50.150(a). The applicant or licensee is also required to describe in the plant-specific DCD how the modified design features and functional capabilities continue to meet the assessment requirements in 10 CFR 50.150(a)(1). Submittal of this updated information is governed by the reporting requirements in Section X.B.

In an adjudicatory proceeding (e.g., for issuance of a COL) a person who believes that an applicant or licensee has not complied with paragraph VIII.B.5 when departing from Tier 2 information, would be permitted to petition to admit such a contention into the proceeding under paragraph VIII.B.5.f. This provision has been proposed because an incorrect departure from the requirements of this appendix essentially would place the departure outside of the scope of the Commission's safety finding in the design certification rulemaking. Therefore, it follows that properly founded contentions alleging such incorrectly implemented departures cannot be considered "resolved" by this rulemaking. As set forth in paragraph VIII.B.5.f, the petition would have to comply with the requirements of 10 CFR 2.309 and show that the departure does not comply with paragraph VIII.B.5. Other persons would be allowed to file a response to the petition under 10 CFR 2.309. If on the basis of the petition and any responses, the presiding officer in the proceeding determines that the required showing has been made, the matter would be certified to the Commission for its final determination. In the absence of a proceeding, petitions alleging nonconformance with paragraph VIII.B.5 requirements applicable to Tier 2 departures would be

treated as petitions for enforcement action under 10 CFR 2.206.

Paragraph VIII.B.6 would provide a process for departing from Tier 2\* information. The creation of and restrictions on changing Tier 2\* information resulted from the development of the Tier 1 information for the ABWR design certification (Appendix A to 10 CFR part 52) and the System 80+ design certification (Appendix B to 10 CFR part 52). During this development process, these applicants requested that the amount of information in Tier 1 be minimized to provide additional flexibility for an applicant or licensee who references these appendices. Also, many codes, standards, and design processes, which would not be specified in Tier 1 that are acceptable for meeting ITAAC, were specified in Tier 2. The result of these departures would be that certain significant information only exists in Tier 2 and the Commission would not want this significant information to be changed without prior NRC approval. This Tier 2\* information would be identified in the generic DCD with italicized text and brackets (See Table 1D-1 in Appendix 1D of the ESBWR DCD).

Although the Tier 2\* designation was originally intended to last for the lifetime of the facility, like Tier 1 information, the NRC determined that some of the Tier 2\* information could expire when the plant first achieves full (100 percent) power, after the finding required by 10 CFR 52.103(g), while other Tier 2\* information must remain in effect throughout the life of the facility. The factors determining whether Tier 2\* information could expire after full power is first achieved (first full power) were whether the Tier 1 information would govern these areas after first full power and the NRC's determination that prior approval was required before implementation of the change due to the significance of the information. Therefore, certain Tier 2\* information listed in paragraph VIII.B.6.c would cease to retain its Tier 2\* designation after full-power operation is first achieved following the Commission finding under 10 CFR 52.103(g). Thereafter, that information would be deemed to be Tier 2 information that would be subject to the departure requirements in paragraph VIII.B.5. By contrast, the Tier 2\* information identified in paragraph VIII.B.6.b would retain its Tier 2\* designation throughout the duration of the license, including any period of license renewal.

Certain preoperational tests in paragraph VIII.B.6.c would be

designated to be performed only for the first plant that references this appendix. The GEH's basis for performing these "first-plant-only" preoperational tests is provided in Section 14.2.8 of the DCD. The NRC found GEH's basis for performing these tests and its justification for only performing the tests on the first plant acceptable. The NRC's decision was based on the need to verify that plant-specific manufacturing and/or construction variations do not adversely impact the predicted performance of certain passive safety systems, while recognizing that these special tests would result in significant thermal transients being applied to critical plant components. The NRC believes that the range of manufacturing or construction variations that could adversely affect the relevant passive safety systems would be adequately disclosed after performing the designated tests on the first plant. The Tier 2\* designation for these tests would expire after the first completes these tests, as indicated in paragraph VIII.B.6.c.

If Tier 2\* information is changed in a generic rulemaking, the designation of the new information (Tier 1, 2\*, or 2) would also be determined in the rulemaking and the appropriate process for future changes would apply. If a plant-specific departure is made from Tier 2\* information, then the new designation would apply only to that plant. If an applicant who references this design certification makes a departure from Tier 2\* information, the new information would be subject to litigation in the same manner as other plant-specific issues in the licensing hearing. If a licensee makes a departure from Tier 2\* information, it would be treated as a license amendment under 10 CFR 50.90 and the finality would be determined under paragraph VI.B.5. Any requests for departures from Tier 2\* information that affects Tier 1 would also have to comply with the requirements in paragraph VIII.A.

#### Operational Requirements

The change process for TS and other operational requirements in the DCD would be set forth in paragraph VIII.C. This change process has elements similar to the Tier 1 and Tier 2 change processes in paragraphs VIII.A and VIII.B, but with significantly different change standards. Because of the different finality status for TS and other operational requirements (refer to paragraph V.F of this document), the Commission designated a special category of information, consisting of the TS and other operational requirements, with its own change

process in proposed paragraph VIII.C. The key to using the change processes proposed in Section VIII is to determine if the proposed change or departure would require a change to a design feature described in the generic DCD. If a design change is required, then the appropriate change process in paragraph VIII.A or VIII.B would apply. However, if a proposed change to the TS or other operational requirements does not require a change to a design feature in the generic DCD, then paragraph VIII.C would apply. The language in paragraph VIII.C would also distinguish between generic (Chapter 16 of the DCD) and plant-specific TS to account for the different treatment and finality accorded TS before and after a license is issued.

The process in paragraph VIII.C.1 for making generic changes to the generic TS in Chapter 16 of the DCD or other operational requirements in the generic DCD would be accomplished by rulemaking and governed by the backfit standards in 10 CFR 50.109. The determination of whether the generic TS and other operational requirements were completely reviewed and approved in the design certification rulemaking would be based upon the extent to which the NRC reached a safety conclusion in the FSER on this matter. If it cannot be determined, in the absence of a specific statement, that the TS or operational requirement was comprehensively reviewed and finalized in the design certification rulemaking, then there would be no backfit restriction under 10 CFR 50.109 because no prior position, consistent with paragraph VI.B, was taken on this safety matter. Generic changes made under paragraph VIII.C.1 would be applicable to all applicants or licensees (refer to paragraph VIII.C.2), unless the change is irrelevant because of a plant-specific departure.

Some generic TS and availability controls contain values in brackets [ ]. The brackets are placeholders indicating that the NRC's review is not complete, and represent a requirement that the applicant for a COL referencing the ESBWR DCR must replace the values in brackets with final plant-specific values (refer to guidance provided in Interim Staff Guidance DC/COL-ISG-8, "Necessary Content of Plant-Specific Technical Specifications"). The values in brackets are neither part of the design certification rule nor are they binding. Therefore, the replacement of bracketed values with final plant-specific values does not require an exemption from the generic TS or availability controls.

Plant-specific departures may occur by either a Commission order under paragraph VIII.C.3 or an applicant's

exemption request under paragraph VIII.C.4. The basis for determining if the TS or operational requirement was completely reviewed and approved for these processes would be the same as for paragraph VIII.C.1 above. If the TS or operational requirement is comprehensively reviewed and finalized in the design certification rulemaking, then the Commission must demonstrate that special circumstances are present before ordering a plant-specific departure. If not, there would be no restriction on plant-specific changes to the TS or operational requirements, prior to the issuance of a license, provided a design change is not required. Although the generic TS were reviewed and approved by the NRC staff in support of the DC review, the Commission intends to consider the lessons learned from subsequent operating experience during its licensing review of the plant-specific TS. The process for petitioning to intervene on a TS or operational requirement contained in paragraph VIII.C.5 would be similar to other issues in a licensing hearing, except that the petitioner must also demonstrate why special circumstances are present pursuant to 10 CFR 2.335.

Finally, the generic TS would have no further effect on the plant-specific TS after the issuance of a license that references this appendix. The bases for the generic TS would be controlled by the change process in paragraph VIII.C. After a license is issued, the bases would be controlled by the bases change provision set forth in the administrative controls section of the plant-specific TS.

#### *I. Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) (Section IX)*

This section is reserved for future use.

#### *J. Records and Reporting (Section X)*

The purpose of Section X would be to set forth the requirements that would apply to maintaining records of changes to and departures from the generic DCD, which would be reflected in the plant-specific DCD. Section X would also set forth the requirements for submitting reports (including updates to the plant-specific DCD) to the NRC. This section of the appendix would be similar to the requirements for records and reports in 10 CFR part 50, except for minor differences in information collection and reporting requirements.

Paragraph X.A.1 would require that a generic DCD and the SUNSI (including proprietary information) and SGI referenced in the generic DCD be maintained by the applicant for this rule. The generic DCD concept was

developed, in part, to meet the OFR requirements for incorporation by reference, including public availability of documents incorporated by reference. However, the SUNSI (including proprietary information) and SGI could not be included in the generic DCD because they are not publicly available. Nonetheless, the SUNSI (including proprietary information) and SGI was reviewed by the NRC and, as stated in paragraph VI.B.2, the NRC would consider the information to be resolved within the meaning of 10 CFR 52.63(a)(5). Because this information is not in the generic DCD, this information, or its equivalent, is required to be provided by an applicant for a license referencing this design certification rule. Paragraph X.A.1 would require the design certification applicant to maintain the SUNSI (including proprietary information) and SGI, which it developed and used to support its design certification application. This would ensure that the referencing applicant has direct access to this information from the design certification applicant, if it has contracted with the applicant to provide the proprietary information and SGI to support its license application. The NRC may also inspect this information if it was not submitted to the NRC (e.g., the aircraft impact assessment required by 10 CFR 50.150). Only the generic DCD would be identified and incorporated by reference into this rule. The generic DCD and the NRC-approved version of the SUNSI (including proprietary information) and SGI would be maintained for the period of time that this appendix may be referenced.

Paragraphs X.A.2 and X.A.3 would place recordkeeping requirements on the applicant or licensee that references this design certification so that its plant-specific DCD accurately reflects both generic changes to the generic DCD and plant-specific departures made under Section VIII. The term "plant-specific" would be used in paragraph X.A.2 and other sections of this appendix to distinguish between the generic DCD that would be incorporated by reference into this appendix, and the plant-specific DCD that the applicant would be required to submit under paragraph IV.A. The requirement to maintain changes to the generic DCD would be explicitly stated to ensure that these changes are not only reflected in the generic DCD, which would be maintained by the applicant for design certification, but also in the plant-specific DCD. Therefore, records of generic changes to the DCD would be required to be maintained by both

entities to ensure that both entities have up-to-date DCDs.

Paragraph X.A.4.a would require the applicant to maintain a copy of the aircraft impact assessment performed to comply with the requirements of 10 CFR 50.150(a) for the term of the certification (including any period of renewal). This proposed provision, which is consistent with 10 CFR 50.150(c)(3), will facilitate any NRC inspections of the assessment that the NRC decides to conduct. Similarly, the NRC is proposing new paragraph X.A.4.b that would require an applicant or licensee who references this appendix to maintain a copy of the aircraft impact assessment performed to comply with the requirements of 10 CFR 50.150(a) throughout the pendency of the application and for the term of the license (including any period of renewal). This provision is consistent with 10 CFR 50.150(c)(4). For all applicants and licensees, the supporting documentation retained onsite should describe the methodology used in performing the assessment, including the identification of potential design features and functional capabilities to show that the acceptance criteria in 10 CFR 50.150(a)(1) will be met.

Paragraph X.A would not place recordkeeping requirements on site-specific information that is outside the scope of this rule. As discussed in paragraph IV.D of this document, the FSAR required by 10 CFR 52.79 would contain the plant-specific DCD and the site-specific information for a facility that references this rule. The phrase "site-specific portion of the final safety analysis report" in paragraph X.B.3.c would refer to the information that is contained in the FSAR for a facility (required by 10 CFR 52.79) but is not part of the plant-specific DCD (required by paragraph IV.A). Therefore, this rule would not require that duplicate documentation be maintained by an applicant or licensee that references this rule, because the plant-specific DCD would be part of the FSAR for the facility.

Paragraph X.B.1 would require applicants or licensees that reference this rule to submit reports, which describe departures from the DCD and include a summary of the written evaluations. The requirement for the written evaluations would be set forth in paragraph X.A.1. The frequency of the report submittals would be set forth in paragraph X.B.3. The requirement for submitting a summary of the evaluations would be similar to the requirement in 10 CFR 50.59(d)(2).

Paragraph X.B.2 would require applicants or licensees that reference this rule to submit updates to the DCD, which include both generic changes and plant-specific departures. The frequency for submitting updates would be set forth in paragraph X.B.3. The requirements in paragraph X.B.3 for submitting the reports and updates would vary according to certain time periods during a facility's lifetime. If a potential applicant for a COL who references this rule decides to depart from the generic DCD prior to submission of the application, then paragraph X.B.3.a would require that the updated DCD be submitted as part of the initial application for a license. Under paragraph X.B.3.b, the applicant may submit any subsequent updates to its plant-specific DCD along with its amendments to the application provided that the submittals are made at least once per year. Because amendments to an application are typically made more frequently than once a year, this should not be an excessive burden on the applicant.

Paragraph X.B.3.b would also require semi-annual submission of the reports required by paragraph X.B.1 throughout the period of application review and construction. The NRC would use the information in the reports to help plan the NRC's inspection and oversight during this phase, when the licensee is conducting detailed design, procurement of components and equipment, construction, and preoperational testing. In addition, the NRC would use the information in

making its finding on ITAAC under 10 CFR 52.103(g), as well as any finding on interim operation under section 189.a.(1)(B)(iii) of the AEA. Once a facility begins operation (for a COL under 10 CFR part 52, after the Commission has made a finding under 10 CFR 52.103(g)), the frequency of reporting would be governed by the requirements in paragraph X.B.3.c.

**VI. Agreement State Compatibility**

Under the "Policy Statement on Adequacy and Compatibility of Agreement States Programs," approved by the Commission on June 20, 1997, and published in the **Federal Register** (62 FR 46517; September 3, 1997), this rule is classified as compatibility "NRC." Compatibility is not required for Category "NRC" regulations. The NRC program elements in this category are those that relate directly to areas of regulation reserved to the NRC by the AEA or the provisions of this chapter. Although an Agreement State may not adopt program elements reserved to the NRC, it may wish to inform its licensees of certain requirements by a mechanism that is consistent with the particular State's administrative procedure laws. Category "NRC" regulations do not confer regulatory authority on the State.

**VII. Availability of Documents**

The NRC is making the documents identified below available to interested persons through one or more of the following methods, as indicated.

*Public Document Room (PDR).* The NRC PDR is located at 11555 Rockville Pike, Rockville, Maryland 20852, e-mail: [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov).

*Regulations.gov (Web).* These documents may be viewed and downloaded electronically through the Federal rulemaking Web site, <http://www.regulations.gov>, by searching under Docket ID NRC-2010-0135.

*NRC's Electronic Reading Room (ERR).* The NRC's public electronic reading room is located at <http://www.nrc.gov/reading-rm.html>.

Document	PDR	Web	ERR (ADAMS)
SECY-11-0006, "Proposed Rule—ESBWR Design Certification" .....	X	X	ML102220172
Staff Requirements Memorandum for SECY-11-0006, "Proposed Rule—ESBWR Design Certification" .....	X	X	ML110670047
GE-Hitachi Nuclear Energy Application for Design Certification of the ESBWR Design .....	X	X	ML052450245
ESBWR Design Control Document, Revision 9 .....	X	X	ML103440266
ESBWR Final Safety Evaluation Report .....	X	.....	ML103470210
ESBWR Environmental Assessment .....	X	X	ML102220247
NEDO-33306, Revision 4, "ESBWR Severe Accident Mitigation Design Alternatives" .....	X	.....	ML102990433
NEDO-33338, Revision 1, "ESBWR Feedwater Temperature Operating Domain Transient and Accident Analysis" .....	X	.....	ML091380173
NEDC-33408P, Revision 1, "ESBWR Steam Dryer—Plant Based Load Evaluation Methodology" .....	X	.....	ML102880132
Staff Requirements Memorandum for SECY-96-077, "Certification of Two Evolutionary Designs" .....	X	.....	ML003754873
SECY-94-084, "Policy and Technical Issues Associated with the Regulatory Treatment of Non-Safety Systems in Passive Plant Designs" .....	X	.....	ML003708068

Document	PDR	Web	ERR (ADAMS)
Staff Requirements Memorandum for SECY-90-377, "Requirements for Design Certification Under 10 CFR Part 52".	X	.....	ML003707892
NUREG-0700, Revision 2, "Human-Systems Interface Design Review Guidelines" (three volumes) .....	X	.....	ML021700337 ML021700342 ML021700371
NUREG-0711, Revision 2, "Human Factors Engineering Program Review Model" .....	.....	.....	ML040770540
NUREG-0800, Ch. 6.4, Revision 3, "Control Room Habitability System" .....	X	.....	ML070550069
NUREG-0800, Ch. 13.5.2.1, Revision 2, "Operating and Emergency Operating Procedures" .....	X	.....	ML070100635
NUREG-1242, "NRC Review of Electric Power Research Institute's Advanced Light Water Reactor Utility Requirements Document, Evolutionary Plant Designs" (five volumes).	X	.....	ML100610048 ML100430013 ML063620331 ML070600372 ML070600373 ML070630005
Regulatory Guide 1.206, Section C.I.1, "Standard Format and Content of Combined License Applications—Introduction and General Description of the Plant".	X	.....	ML070630005
Interim Staff Guidance DC/COL-ISG-8, "Necessary Content of Plant-Specific Technical Specifications".	X	.....	ML083310237
Regulatory History of Design Certification <sup>3</sup> .....	X	.....	ML003761550

### VIII. Procedures for Access to SUNSI (Including Proprietary Information) and SGI for Preparation of Comments on the Proposed ESBWR Design Certification Rule

This section contains instructions regarding how interested persons who wish to comment on the proposed design certification may request access to documents containing SUNSI (including proprietary information<sup>4</sup>), and SGI, in order to prepare their comments. Requirements for access to SGI are primarily set forth in 10 CFR parts 2 and 73. This notice of proposed rulemaking provides information specific to this rulemaking; however, nothing in this notice is intended to conflict with the SGI regulations.

Interested persons who desire access to SUNSI information on the ESBWR design constituting proprietary information should first request access to that information from the design certification applicant. A request for access should be submitted to the NRC if the applicant does not either grant or deny access by the 10-day deadline described below.

#### Submitting a Request to the NRC for Access

Within 10 days after publication of this notice of proposed rulemaking, any individual or entity who, in order to submit comments on the proposed

design certification, believes access to information in this rulemaking docket that the NRC has categorized as SUNSI or SGI is necessary may request access to this information. Requests for access to SUNSI or SGI submitted more than 10 days after publication of this notice will not be considered absent a showing of good cause for the late filing explaining why the request could not have been filed earlier.

The individual or entity requesting access to the information (hereinafter, the "requester") shall submit a letter requesting permission to access SUNSI and/or SGI to the Office of the Secretary, U.S. Nuclear Regulatory Commission, Attention: Rulemakings and Adjudications Staff, Washington, DC 20555-0001. The expedited delivery or courier mail address is: Office of the Secretary, U.S. Nuclear Regulatory Commission, Attention: Rulemakings and Adjudications Staff, 11555 Rockville Pike, Rockville, Maryland 20852. The e-mail address for the Office of the Secretary is [rulemaking.comments@nrc.gov](mailto:rulemaking.comments@nrc.gov). The requester must send a copy of the request to the design certification applicant at the same time as the original transmission to the NRC using the same method of transmission. Requests to the applicant must be sent to Rick E. Kingston, Vice President, ESBWR Licensing, GE-Hitachi Nuclear Energy, 3901 Castle Hayne Road, MC A65, Wilmington, NC 28401, e-mail: [rick.kingston@ge.com](mailto:rick.kingston@ge.com). For purposes of complying with this requirement, a "request" includes all the information required to be submitted to the NRC as set forth in this section.

The request must include the following information:

1. The name of this design certification—ESBWR Design Certification, the rulemaking

identification number RIN 3150-AI85, the rulemaking docket number NRC-2010-0135, and a citation to this **Federal Register** notice of proposed rulemaking at the top of the first page of the request;

2. The name, address, e-mail or FAX number of the requester. If the requester is an entity, the name of the individual(s) to whom access is to be provided, then the address and e-mail or FAX number for each individual, and a statement of the authority granted by the entity to each individual to review the information and to prepare comments on behalf of the entity must be provided. If the requester is relying upon another individual to evaluate the requested SUNSI and/or SGI and prepare comments, then the name, affiliation, address and e-mail or FAX number for that individual must be provided.

3.(a) If the request is for SUNSI, then the requester's need for the information in order to prepare meaningful comments on the proposed design certification must be demonstrated. Each of the following areas must be addressed with specificity:

(i) The specific issue or subject matter on which the requester wishes to comment;

(ii) An explanation why information which is publicly available, including the publicly available versions of the application and design control document, and information on the NRC's docket for the design certification application is insufficient to provide the basis for developing meaningful comment on the proposed design certification with respect to the issue or subject matter described in paragraph 3.(a)(i) above; and

(iii) Information demonstrating that the individual to whom access is to be provided has the technical competence

<sup>3</sup> The regulatory history of the NRC's design certification reviews is a package of documents that is available in NRC's PDR and ERR. This history spans the period during which the NRC simultaneously developed the regulatory standards for reviewing these designs and the form and content of the rules that certified the designs.

<sup>4</sup> For purposes of this discussion, "proprietary information" constitutes trade secrets or commercial or financial information that are privileged or confidential, as those terms are used under the FOIA and the NRC's implementing regulation at 10 CFR part 9.

(demonstrable knowledge, skill, experience, education, training, or certification) to understand and use (or evaluate) the requested information for a meaningful comment on the proposed design certification with respect to the issue or subject matter described in paragraph 3.(a)(i) above.

(b) If the request is for SUNSI constituting proprietary information, then a chronology and discussion of the requester's attempts to obtain the information from the design certification applicant, and the final communication from the requester to the applicant and the applicant's response with respect to the request for access to proprietary information must be submitted.

4.(a) If the request is for SGI, then the requester's "need to know" the SGI as required by 10 CFR 73.2 and 10 CFR 73.22(b)(1) must be demonstrated. Consistent with the definition of "need to know" as stated in 10 CFR 73.2 and 10 CFR 73.22(b)(1), each of the following areas must be addressed with specificity:

(i) The specific issue or subject matter on which the requester wishes to comment;

(ii) An explanation why information which is publicly available, including the publicly available versions of the application and design control document, and information on the NRC's docket for the design certification application is insufficient to provide the basis for developing meaningful comment on the proposed design certification with respect to the issue or subject matter described in paragraph 4.(a)(i) above, and that the SGI requested is indispensable in order to develop meaningful comments;<sup>5</sup> and

(iii) Information demonstrating that the individual to whom access is to be provided has the technical competence (demonstrable knowledge, skill, experience, education, training, or certification) to understand and use (or evaluate) the requested SGI, in order to develop meaningful comments on the proposed design certification with respect to the issue or subject matter described in Paragraph 4.(a)(i) above.

(b) A completed Form SF-85, "Questionnaire for Non-Sensitive Positions," must be submitted for each

individual who would have access to SGI. The completed Form SF-85 will be used by the NRC's Office of Administration to conduct the background check required for access to SGI, as required by 10 CFR part 2, subpart G, and 10 CFR 73.22(b)(2), to determine the requester's trustworthiness and reliability. For security reasons, Form SF-85 can only be submitted electronically through the electronic Questionnaire for Investigations Processing (e-QIP) Web site, a secure Web site that is owned and operated by the Office of Personnel Management. To obtain online access to the form, the requester should contact the NRC's Office of Administration at 301-492-3524.<sup>6</sup>

(c) A completed Form FD-258 (fingerprint card), signed in original ink, and submitted under 10 CFR 73.57(d). Copies of Form FD-258 may be obtained by writing the Office of Information Services, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; by calling 301-415-7232 or 301-492-7311; or by e-mail: to [Forms.Resource@nrc.gov](mailto:Forms.Resource@nrc.gov). The fingerprint card will be used to satisfy the requirements of 10 CFR part 2, 10 CFR 73.22(b)(1), and Section 149 of the Atomic Energy Act (AEA) of 1954, as amended, which mandates that all persons with access to SGI must be fingerprinted for an Federal Bureau of Investigation identification and criminal history records check;

(d) A check or money order in the amount of \$200.00<sup>7</sup> payable to the U.S. Nuclear Regulatory Commission for each individual for whom the request for access has been submitted; and

(e) If the requester or any individual who will have access to SGI believes they belong to one or more of the categories of individuals relieved from the criminal history records check and background check requirements, as stated in 10 CFR 73.59, the requester should also provide a statement specifically stating which relief the requester is invoking, and explaining the requester's basis (including supporting documentation) for believing that the relief is applicable. While processing the request, the NRC's Office of Administration, Personnel Security Branch, will make a final determination whether the stated relief applies. Alternatively, the requester may contact

the Office of Administration for an evaluation of their status prior to submitting the request. Persons who are not subject to the background check are not required to complete the SF-85 or Form FD-258; however, all other requirements for access to SGI, including the need to know, are still applicable.

Copies of documents and materials required by paragraphs 4(b), (c), (d), and (e), as applicable, of this section of this notice of proposed rulemaking must be sent to the following address: Office of Administration, U.S. Nuclear Regulatory Commission, Personnel Security Branch, Mail Stop TWB-05 B32M, Washington, DC 20555-0012.

These documents and materials should not be included with the request letter to the Office of the Secretary, but the request letter should state that the forms and fees have been submitted as required above.

5. To avoid delays in processing requests for access to SGI, all forms should be reviewed for completeness and accuracy (including legibility) before submitting them to the NRC. The NRC will return incomplete or illegible packages to the sender without processing.

6. Based on an evaluation of the information submitted under paragraphs 3(a) and (b), or 4(a), (b), (c), and (e) above, as applicable, the NRC staff will determine within 10 days of receipt of the written access request whether the requester has established a legitimate need for SUNSI access or need to know the SGI requested.

7. For SUNSI access requests, if the NRC staff determines that the requester has established a legitimate need for access to SUNSI, the NRC staff will notify the requester in writing that access to SUNSI has been granted; *provided, however*, that if the SUNSI consists of proprietary information (*i.e.*, trade secrets or confidential or financial information), the NRC staff must first notify the applicant of the staff's determination to grant access to the requester not less than 10 days before informing the requester of the staff's decision. If the applicant wishes to challenge the NRC staff's determination, it must follow the procedures in paragraph 12 below. The NRC staff will not provide the requester access to disputed proprietary information to the requester until the procedures in paragraph 12 are completed.

The written notification to the requester will contain instructions on how the requester may obtain copies of the requested documents, and any other conditions that may apply to access to those documents. These conditions will

<sup>5</sup> Broad SGI requests under these procedures are unlikely to meet the standard for need to know. Furthermore, NRC staff redaction of information from requested documents before their release may be appropriate to comport with this requirement. The procedures in this notice of proposed rulemaking do not authorize unrestricted disclosure or less scrutiny of a requester's need to know than ordinarily would be applied in connection with either adjudicatory or non-adjudicatory access to SGI.

<sup>6</sup> The requester will be asked to provide his or her full name, social security number, date and place of birth, telephone number, and e-mail address. After providing this information, the requester usually should be able to obtain access to the online form within one business day.

<sup>7</sup> This fee is subject to change as specified by the NRC's adjustable billing rates.

include, but are not necessarily limited to, the signing of a protective order setting forth terms and conditions to prevent the unauthorized or inadvertent disclosure of SUNSI by each individual who will be granted access to SUNSI. Claims that the provisions of such a protective order have not been complied with may be filed by calling NRC's toll-free safety hotline at 800-695-7403. *Please note:* Calls to this number are not recorded between the hours of 7 a.m. to 5 p.m. Eastern Time. However, calls received outside these hours are answered by the NRC's Incident Response Operations Center on a recorded line. Claims may also be filed via e-mail sent to [NRO\\_Allegations@nrc.gov](mailto:NRO_Allegations@nrc.gov), or may be sent in writing to the U.S. Nuclear Regulatory Commission, ATTN: N. Rivera-Feliciano, Mail Stop T7-D24, Washington, DC 20555-0001.

8. For requests for access to SGI, if the NRC staff determines that the requester has established a need to know the SGI, the NRC's Office of Administration will then determine, based upon completion of the background check, whether the proposed recipient is trustworthy and reliable, as required for access to SGI by 10 CFR 73.22(b). If the NRC's Office of Administration determines that the individual or individuals are trustworthy and reliable, the NRC will promptly notify the requester in writing. The notification will provide the names of approved individuals as well as the conditions under which the SGI will be provided. Those conditions will include, but are not necessarily limited to, the signing of a protective order by each individual who will be granted access to SGI. Claims that the provisions of such a protective order have not been complied with may be filed by calling NRC's toll-free safety hotline at 1-800-695-7403. *Please note:* Calls to this number are not recorded between the hours of 7 a.m. to 5 p.m. Eastern Time. However, calls received outside these hours are answered by the NRC's Incident Response Operations Center on a recorded line. Claims may also be filed via e-mail sent to [NRO\\_Allegations@nrc.gov](mailto:NRO_Allegations@nrc.gov), or may be sent in writing to the U.S. Nuclear Regulatory Commission, ATTN: N. Rivera-Feliciano, Mail Stop T7-D24, Washington, DC 20555-0001. Because SGI requires special handling, initial filings with the NRC should be free from such specific information. If necessary, the NRC will arrange an appropriate setting for transmitting SGI to the NRC.

9. Release and Storage of SGI. Prior to providing SGI to the requester, the NRC staff will conduct (as necessary) an inspection to confirm that the

recipient's information protection system is sufficient to satisfy the requirements of 10 CFR 73.22. Alternatively, recipients may opt to view SGI at an approved SGI storage location rather than establish their own SGI protection program to meet SGI protection requirements.

10. Filing of Comments on the Proposed Design Certification. Any comments in this rulemaking proceeding that are based upon the disclosed SUNSI or SGI information must be filed by the requester no later than 25 days after receipt of (or access to) that information, or the close of the public comment period, whichever is later. The commenter must comply with all NRC requirements regarding the submission of SUNSI and SGI to the NRC (including marking and transmission requirements).

11. Review of Denials of Access.

(a) If the request for access to SUNSI or SGI is denied by the NRC staff, the NRC staff shall promptly notify the requester in writing, briefly stating the reason or reasons for the denial.

(b) Before the NRC's Office of Administration makes an adverse determination regarding the trustworthiness and reliability of the proposed recipient(s) of SGI, the NRC's Office of Administration, as specified by 10 CFR 2.705(c)(3)(iii), must provide the proposed recipient(s) any records that were considered in the trustworthiness and reliability determination, including those required to be provided under 10 CFR 73.57(e)(1), so that the proposed recipient is provided an opportunity to correct or explain information.

(c) Appeals from a denial of access must be made to the NRC's Executive Director for Operations (EDO) under 10 CFR 9.29. The decision of the EDO constitutes final agency action under 10 CFR 9.29(d).

12. Predisclosure Procedures for SUNSI Constituting Trade Secrets or Confidential Commercial or Financial Information. The NRC will follow the procedures in 10 CFR 9.28 if the NRC staff determines, under paragraph 7 above, that access to SUNSI constituting trade secrets or confidential commercial or financial information will be provided to the requester. However, any objection filed by the applicant under 10 CFR 9.28(b) must be filed within 15 days of the NRC staff notice in paragraph 7 above rather than the 30-day period provided for under that paragraph. In applying the provisions of 10 CFR 9.28, the applicant for the DCR will be treated as the "submitter."

## IX. Plain Language

The Presidential memorandum "Plain Language in Government Writing" published on June 10, 1998 (63 FR 31883), directed that the Government's documents be in clear and accessible language. The NRC requests comments on the proposed rule specifically with respect to the clarity and effectiveness of the language used. Comments should be sent to the NRC as explained in the **ADDRESSES** heading of this document.

## X. Voluntary Consensus Standards

The National Technology and Transfer Act of 1995 (Act), Public Law 104-113, requires that Federal agencies use technical standards that are developed or adopted by voluntary consensus standards bodies unless using such a standard is inconsistent with applicable law or is otherwise impractical. In this proposed rule, the NRC proposes to approve the ESBWR standard plant design for use in nuclear power plant licensing under 10 CFR part 50 or 52. Design certifications are not generic rulemakings establishing a generally applicable standard with which all 10 CFR parts 50 and 52 nuclear power plant licensees must comply. Design certifications are Commission approvals of specific nuclear power plant designs by rulemaking. Furthermore, design certifications are initiated by an applicant for rulemaking, rather than by the NRC. For these reasons, the NRC concludes that the Act does not apply to this proposed rule.

## XI. Finding of No Significant Environmental Impact: Availability

The NRC has determined under NEPA, and the NRC's regulations in Subpart A, "National Environmental Policy Act; Regulations Implementing Section 102(2)," of 10 CFR part 51, "Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions," that a proposed design certification rule, if adopted, would not be a major Federal action significantly affecting the quality of the human environment and, therefore, an environmental impact statement (EIS) is not required. The NRC's generic determination in this regard is reflected in 10 CFR 51.32(b)(1). The basis for the NRC's categorical exclusion in this regard, as discussed in the 2007 final rule amending 10 CFR parts 51 and 52 (August 28, 2007; 72 FR 49352-49566), is based upon the following considerations. A design certification rule does not authorize the siting, construction, or operation of a facility referencing any particular using design;



it would only codify the ESBWR design in a rule. The NRC will evaluate the environmental impacts and issue an EIS as appropriate under NEPA as part of the application for the construction and operation of a facility referencing any particular design certification rule.

In addition, consistent with 10 CFR 51.30(d) and 10 CFR 51.32(b), the NRC has prepared a draft EA for the ESBWR design addressing various design alternatives to prevent and mitigate severe accidents. The EA is based, in part, upon the NRC's review of GEH's evaluation of various design alternatives to prevent and mitigate severe accidents in NEDO-33306, Revision 4, "ESBWR Severe Accident Mitigation Design Alternatives." Based upon review of GEH's evaluation, the Commission concludes that: (1) GEH identified a reasonably complete set of potential design alternatives to prevent and mitigate severe accidents for the ESBWR design; (2) none of the potential design alternatives are justified on the basis of cost-benefit considerations; and (3) it is unlikely that other design changes would be identified and justified during the term of the design certification on the basis of cost-benefit considerations, because the estimated core damage frequencies for the ESBWR are very low on an absolute scale. These issues are considered resolved for the ESBWR design.

The Commission is requesting comment on the draft EA. As provided in 10 CFR 51.31(b), comments on the draft EA will be limited to the consideration of SAMDAs as required by 10 CFR 51.30(d). The Commission will prepare a final EA following the close of the comment period for the proposed standard design certification. If a final rule is issued, all environmental issues concerning SAMDAs associated with the information in the final EA and NEDO-33306 will be considered resolved for facility applications referencing the ESBWR design if the site characteristics at the site proposed in the facility application fall within the site parameters specified in NEDO-33306.

The draft EA, upon which the Commission's finding of no significant impact is based, and the ESBWR DCD are available for examination and copying at the NRC's Public Document Room, One White Flint North, Room O-1 F21, 11555 Rockville Pike, Rockville, Maryland 20852.

## XII. Paperwork Reduction Act Statement

This proposed rule contains new or amended information collection requirements that are subject to the

Paperwork Reduction Act of 1995 (44 U.S.C. 3501, *et seq.*). This rule has been submitted to the Office of Management and Budget (OMB) for approval of the information collection requirements.

*Type of submission, new or revision:* Revision.

*The title of the information collection:* Appendix E to 10 CFR Part 52, ESBWR Design Certification, Proposed Rule.

*Current OMB Approval Number:* 3150-0151.

*The form number if applicable:* Not applicable.

*How often the collection is required:* Semi-annually.

*Who will be required or asked to report:* Applicant for a combined license or a design certification amendment.

*An estimate of the number of annual responses:* 3 (1 response plus 2 recordkeepers).

*The estimated number of annual respondents:* 2.

*An estimate of the total number of hours needed annually to complete the requirement or request:* Approximately 45 additional burden hours (5 hours reporting plus 40 hours recordkeeping).

*Abstract:* The NRC proposes to amend its regulations to certify the ESBWR standard plant design under Subpart B of 10 CFR part 52. This action is necessary so that applicants or licensees intending to construct and operate an ESBWR design may do so by referencing this DCR. The applicant for certification of the ESBWR design is GE-Hitachi Nuclear Energy.

The NRC is seeking public comment on the potential impact of the information collections contained in this proposed rule and on the following issues:

1. Is the proposed information collection necessary for the proper performance of the functions of the NRC, including whether the information will have practical utility?
2. Is the estimate of burden accurate?
3. Is there a way to enhance the quality, utility, and clarity of the information to be collected?
4. How can the burden of the information collection be minimized, including the use of automated collection techniques?

A copy of the OMB clearance package may be viewed free of charge at the NRC's Public Document Room, One White Flint North, 11555 Rockville Pike, Room O-1 F21, Rockville, MD 20852. The OMB clearance package and rule are available at the NRC Web site: <http://www.nrc.gov/public-involve/doc-comment/omb/index.html> for 60 days after the signature date of this notice.

Send comments on any aspect of these proposed information collections,

including suggestions for reducing the burden and on the above issues, by April 25, 2011 to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [INFCOLLECTS.RESOURCE@NRC.GOV](mailto:INFCOLLECTS.RESOURCE@NRC.GOV); and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0151), Office of Management and Budget, Washington, DC 20503. Comments on the proposed information collections may also be submitted via the Federal rulemaking Web site, <http://www.regulations.gov>, Docket ID NRC-2010-0135. Comments received after this date will be considered if it is practical to do so, but assurance of consideration cannot be given to comments received after this date.

## Public Protection Notification

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid OMB control number.

## XIII. Regulatory Analysis

The NRC has not prepared a regulatory analysis for this proposed rule. The NRC prepares regulatory analyses for rulemakings that establish generic regulatory requirements applicable to all licensees. Design certifications are not generic rulemakings in the sense that design certifications do not establish standards or requirements with which all licensees must comply. Rather, design certifications are Commission approvals of specific nuclear power plant designs by rulemaking, which then may be voluntarily referenced by applicants for COLs. Furthermore, design certification rulemakings are initiated by an applicant for a design certification, rather than the NRC. Preparation of a regulatory analysis in this circumstance would not be useful because the design to be certified is proposed by the applicant rather than the NRC. For these reasons, the Commission concludes that preparation of a regulatory analysis is neither required nor appropriate.

## XIV. Regulatory Flexibility Certification

Under the Regulatory Flexibility Act (5 U.S.C. 605(b)), the Commission certifies that this rule would not, if promulgated, have a significant economic impact on a substantial number of small entities. This proposed rule provides for certification of a nuclear power plant design. Neither the design certification applicant, nor

prospective nuclear power plant licensees who reference this design certification rule, fall within the scope of the definition of "small entities" set forth in the Regulatory Flexibility Act, or the size standards set established by the NRC (10 CFR 2.810). Thus, this rule does not fall within the purview of the Regulatory Flexibility Act.

## XV. Backfitting

The Commission has determined that this proposed rule does not constitute a backfit as defined in the backfit rule (10 CFR 50.109) because this design certification does not impose new or changed requirements on existing 10 CFR part 50 licensees, nor does it impose new or changed requirements on existing DCRs in Appendices A through D to 10 CFR part 52. Therefore, a backfit analysis was not prepared for this rule.

### List of Subjects in 10 CFR Part 52

Administrative practice and procedure, Antitrust, Backfitting, Combined license, Early site permit, Emergency planning, Fees, Inspection, Limited work authorization, Nuclear power plants and reactors, Probabilistic risk assessment, Prototype, Reactor siting criteria, Redress of site, Reporting and recordkeeping requirements, Standard design, Standard design certification, Incorporation by reference.

For the reasons set out in the preamble and under the authority of the Atomic Energy Act of 1954, as amended; the Energy Reorganization Act of 1974, as amended; and 5 U.S.C. 553; the NRC is proposing to adopt the following amendments to 10 CFR part 52.

## PART 52—LICENSES, CERTIFICATIONS, AND APPROVALS FOR NUCLEAR POWER PLANTS

1. The authority citation for 10 CFR part 52 continues to read as follows:

**Authority:** Secs. 103, 104, 161, 182, 183, 186, 189, 68 Stat. 936, 948, 953, 954, 955, 956, as amended, sec. 234, 83 Stat. 444, as amended (42 U.S.C. 2133, 2201, 2232, 2233, 2236, 2239, 2282); secs. 201, 202, 206, 88 Stat. 1242, 1244, 1246, as amended (42 U.S.C. 5841, 5842, 5846); sec. 1704, 112 Stat. 2750 (44 U.S.C. 3504 note); Energy Policy Act of 2005, Pub. L. 109–58, 119 Stat. 594 (2005), secs. 147 and 149 of the Atomic Energy Act.

2. In 10 CFR 52.11, paragraph (b) is revised to read as follows:

### § 52.11 Information collection requirements: OMB approval.

\* \* \* \* \*

(b) The approved information collection requirements contained in this part appear in 10 CFR part 52, 52.7, 52.15, 52.16, 52.17, 52.29, 52.35, 52.39, 52.45, 52.46, 52.47, 52.57, 52.63, 52.75,

52.77, 52.79, 52.80, 52.93, 52.99, 52.110, 52.135, 52.136, 52.137, 52.155, 52.156, 52.157, 52.158, 52.171, 52.177, and appendices A, B, C, D, E, and N to this part.

3. Appendix E to 10 CFR part 52 is added to read as follows:

## Appendix E to Part 52—Design Certification Rule for the ESBWR Design

### I. Introduction

Appendix E constitutes the standard design certification for the Economic Simplified Boiling-Water Reactor (ESBWR) design, in accordance with 10 CFR part 52, Subpart B. The applicant for certification of the ESBWR design is GE-Hitachi Nuclear Energy.

### II. Definitions

A. *Generic design control document (generic DCD)* means the document containing the Tier 1 and Tier 2 information and generic technical specifications that is incorporated by reference into this appendix.

B. *Generic technical specifications (generic TS)* means the information required by 10 CFR 50.36 and 50.36a for the portion of the plant that is within the scope of this appendix.

C. *Plant-specific DCD* means that portion of the combined license (COL) final safety analysis report (FSAR) that sets forth both the generic DCD information and any plant-specific changes to generic DCD information.

D. *Tier 1* means the portion of the design-related information contained in the generic DCD that is approved and certified by this appendix (Tier 1 information). The design descriptions, interface requirements, and site parameters are derived from Tier 2 information. Tier 1 information includes:

1. Definitions and general provisions;
2. Design descriptions;
3. Inspections, tests, analyses, and acceptance criteria (ITAAC);
4. Significant site parameters; and
5. Significant interface requirements.

E. *Tier 2* means the portion of the design-related information contained in the generic DCD that is approved but not certified by this appendix (Tier 2 information). Compliance with Tier 2 is required, but generic changes to and plant-specific departures from Tier 2 are governed by Section VIII of this appendix. Compliance with Tier 2 provides a sufficient, but not the only acceptable, method for complying with Tier 1. Compliance methods differing from Tier 2 must satisfy the change process in Section VIII of this appendix. Regardless of these differences, an applicant or licensee must meet the requirement in paragraph III.B of this appendix to reference Tier 2 when referencing Tier 1. Tier 2 information includes:

1. Information required by 10 CFR 52.47(a) and 52.47(c), with the exception of generic TS and conceptual design information;
2. Supporting information on the inspections, tests, and analyses that will be performed to demonstrate that the acceptance criteria in the ITAAC have been met;

3. COL action items (COL license information), which identify certain matters that must be addressed in the site-specific portion of the FSAR by an applicant who references this appendix. These items constitute information requirements but are not the only acceptable set of information in the FSAR. An applicant may depart from or omit these items, provided that the departure or omission is identified and justified in the FSAR. After issuance of a construction permit or COL, these items are not requirements for the licensee unless such items are restated in the FSAR; and

4. The availability controls in Appendix 19ACM of the DCD.

F. *Tier 2\** means the portion of the Tier 2 information, designated as such in the generic DCD, which is subject to the change process in paragraph VIII.B.6 of this appendix. This designation expires for some Tier 2\* information under paragraph VIII.B.6 of this appendix.

G. *Departure from a method of evaluation described in the plant-specific DCD used in establishing the design bases or in the safety analyses* means:

1. Changing any of the elements of the method described in the plant-specific DCD unless the results of the analysis are conservative or essentially the same; or
2. Changing from a method described in the plant-specific DCD to another method unless that method has been approved by the NRC for the intended application.

H. All other terms in this appendix have the meaning set out in 10 CFR 50.2, 10 CFR 52.1, or Section 11 of the Atomic Energy Act of 1954, as amended, as applicable.

### III. Scope and Contents

A. All Tier 1, Tier 2 (including the availability controls in Appendix 19ACM), and the generic TS in the ESBWR DCD, Revision 9, dated December 2010, are approved for incorporation by reference by the Director of the Office of the Federal Register under 5 U.S.C. 552(a) and 1 CFR part 51. You may obtain copies of the generic DCD from Rick E. Kingston, Vice President, ESBWR Licensing, GE—Hitachi Nuclear Energy, 3901 Castle Hayne Road, MC A65, Wilmington, NC 28401. Publicly available documents created or received at the NRC are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. From this page, the public can gain entry into the NRC's Agencywide Documents Access and Management System (ADAMS), which provides text and image files of NRC's public documents. To view the generic DCD in ADAMS, search under ADAMS Accession No. ML103440266. If you do not have access to ADAMS or if there are problems in accessing the documents located in ADAMS, then contact the NRC's Public Document Room (PDR) reference staff at 1–800–397–4209, 301–415–4737, or by e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). A copy of the generic DCD is also available for examination and copying at the NRC PDR, Room O–1F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852. Copies are also available for examination at the NRC Library, Two White Flint North, 11545 Rockville



Pike, Rockville, Maryland 20852, telephone: 301-415-5610, e-mail: [library.resource@nrc.gov](mailto:library.resource@nrc.gov). All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030 or go to <http://www.archives.gov/federal-register/cfr/ibr-locations.html>. The generic DCD can also be viewed at the Federal rulemaking Web site, <http://www.regulations.gov>, by searching for documents filed under Docket ID NRC-2010-0135.

B. An applicant or licensee referencing this appendix, in accordance with Section IV of this appendix, shall incorporate by reference and comply with the requirements of this appendix, including Tier 1, Tier 2 (including the availability controls in Appendix 19ACM of the DCD), and the generic TS except as otherwise provided in this appendix. Conceptual design information in the generic DCD and the evaluation of severe accident mitigation design alternatives in NEDO-33306, Revision 4, "ESBWR Severe Accident Mitigation Design Alternatives," are not part of this appendix.

C. If there is a conflict between Tier 1 and Tier 2 of the DCD, then Tier 1 controls.

D. If there is a conflict between the generic DCD and either the application for design certification of the ESBWR design or NUREG-XXXX, "Final Safety Evaluation Report Related to Certification of the ESBWR Standard Design," (FSER), then the generic DCD controls.

E. Design activities for structures, systems, and components that are wholly outside the scope of this appendix may be performed using site characteristics, provided the design activities do not affect the DCD or conflict with the interface requirements.

#### IV. Additional Requirements and Restrictions

A. An applicant for a COL that wishes to reference this appendix shall, in addition to complying with the requirements of 10 CFR 52.77, 52.79, and 52.80, comply with the following requirements:

1. Incorporate by reference, as part of its application, this appendix.

2. Include, as part of its application:

a. A plant-specific DCD containing the same type of information and using the same organization and numbering as the generic DCD for the ESBWR design, either by including or incorporating by reference the generic DCD information, and as modified and supplemented by the applicant's exemptions and departures;

b. The reports on departures from and updates to the plant-specific DCD required by paragraph X.B of this appendix;

c. Plant-specific TS, consisting of the generic and site-specific TS that are required by 10 CFR 50.36 and 50.36a;

d. Information demonstrating that the site characteristics fall within the site parameters and that the interface requirements have been met;

e. Information that addresses the COL action items; and

f. Information required by 10 CFR 52.47(a) that is not within the scope of this appendix.

3. Include, in the plant-specific DCD, the sensitive, unclassified, non-safeguards information (SUNSI) (including proprietary information) and safeguards information (SGI) referenced in the ESBWR generic DCD.

4. Include, as part of its application, a demonstration that an entity other than GE-Hitachi Nuclear Energy is qualified to supply the ESBWR design unless GE-Hitachi Nuclear Energy supplies the design for the applicant's use.

B. The Commission reserves the right to determine in what manner this appendix may be referenced by an applicant for a construction permit or operating license under 10 CFR part 50.

#### V. Applicable Regulations

A. Except as indicated in paragraph B of this section, the regulations that apply to the ESBWR design are in 10 CFR parts 20, 50, 73, and 100, codified as of [DATE THE FINAL RULE IS SIGNED BY THE SECRETARY OF THE COMMISSION], that are applicable and technically relevant, as described in the FSER (NUREG-XXXX).

B. The ESBWR design is exempt from portions of the following regulations:

1. Paragraph (f)(2)(iv) of 10 CFR 50.34—Contents of Applications: Technical Information.

#### VI. Issue Resolution

A. The Commission has determined that the structures, systems, components, and design features of the ESBWR design comply with the provisions of the Atomic Energy Act of 1954, as amended, and the applicable regulations identified in Section V of this appendix; and therefore, provide adequate protection to the health and safety of the public. A conclusion that a matter is resolved includes the finding that additional or alternative structures, systems, components, design features, design criteria, testing, analyses, acceptance criteria, or justifications are not necessary for the ESBWR design.

B. The Commission considers the following matters resolved within the meaning of 10 CFR 52.63(a)(5) in subsequent proceedings for issuance of a COL, amendment of a COL, or renewal of a COL, proceedings held under 10 CFR 52.103, and enforcement proceedings involving plants referencing this appendix:

1. All nuclear safety issues, except for the generic TS and other operational requirements such as human factors engineering procedure development and training program development in Chapters 18.9 and 18.10 of the generic DCD, associated with the information in the FSER, Tier 1, Tier 2 (including referenced information, which the context indicates is intended as requirements, and the availability controls in Appendix 19ACM of the DCD), and the rulemaking record for certification of the ESBWR design;

2. All nuclear safety and safeguards issues associated with the referenced information in SUNSI (including proprietary information) and safeguards information which, in context, are intended as requirements in the generic DCD for the ESBWR design, with the exception of human factors engineering procedure development and training program

development in Chapters 18.9 and 18.10 of the generic DCD;

3. All generic changes to the DCD under and in compliance with the change processes in paragraphs VIII.A.1 and VIII.B.1 of this appendix;

4. All exemptions from the DCD under and in compliance with the change processes in paragraphs VIII.A.4 and VIII.B.4 of this appendix, but only for that plant;

5. All departures from the DCD that are approved by license amendment, but only for that plant;

6. Except as provided in paragraph VIII.B.5.f of this appendix, all departures from Tier 2 under and in compliance with the change processes in paragraph VIII.B.5 of this appendix that do not require prior NRC approval, but only for that plant;

7. All environmental issues concerning severe accident mitigation design alternatives associated with the information in the NRC's EA for the ESBWR design (ADAMS Accession No. ML102220247) and NEDO-33306, Revision 4, "ESBWR Severe Accident Mitigation Design Alternatives," (ADAMS Accession No. ML102990433) for plants referencing this appendix whose site characteristics fall within those site parameters specified in NEDO-33306.

C. The Commission does not consider operational requirements for an applicant or licensee who references this appendix to be matters resolved within the meaning of 10 CFR 52.63(a)(5). The Commission reserves the right to require operational requirements for an applicant or licensee who references this appendix by rule, regulation, order, or license condition.

D. Except under the change processes in Section VIII of this appendix, the Commission may not require an applicant or licensee who references this appendix to:

1. Modify structures, systems, components, or design features as described in the generic DCD;

2. Provide additional or alternative structures, systems, components, or design features not discussed in the generic DCD; or

3. Provide additional or alternative design criteria, testing, analyses, acceptance criteria, or justification for structures, systems, components, or design features discussed in the generic DCD.

E. The NRC will specify at an appropriate time the procedures to be used by an interested person who wishes to review portions of the design certification or references containing SGI or SUNSI (including proprietary information<sup>8</sup>), for the purpose of participating in the hearing required by 10 CFR 52.85, the hearing provided under 10 CFR 52.103, or in any other proceeding relating to this appendix in which interested persons have a right to request an adjudicatory hearing.

#### VII. Duration of This Appendix

This appendix may be referenced for a period of 15 years from [DATE 30 DAYS AFTER DATE OF PUBLICATION OF THE FINAL RULE IN THE FEDERAL REGISTER],

<sup>8</sup> Proprietary information includes trade secrets and commercial or financial information obtained from a person that are privileged or confidential. 10 CFR 2.390 and 10 CFR part 9.

except as provided for in 10 CFR 52.55(b) and 52.57(b). This appendix remains valid for an applicant or licensee who references this appendix until the application is withdrawn or the license expires, including any period of extended operation under a renewed license.

## VIII. Processes for Changes and Departures

### A. Tier 1 Information

1. Generic changes to Tier 1 information are governed by the requirements in 10 CFR 52.63(a)(1).

2. Generic changes to Tier 1 information are applicable to all applicants or licensees who reference this appendix, except those for which the change has been rendered technically irrelevant by action taken under paragraphs A.3 or A.4 of this section.

3. Departures from Tier 1 information that are required by the Commission through plant-specific orders are governed by the requirements in 10 CFR 52.63(a)(4).

4. Exemptions from Tier 1 information are governed by the requirements in 10 CFR 52.63(b)(1) and 52.98(f). The Commission will deny a request for an exemption from Tier 1, if it finds that the design change will result in a significant decrease in the level of safety otherwise provided by the design.

### B. Tier 2 Information

1. Generic changes to Tier 2 information are governed by the requirements in 10 CFR 52.63(a)(1).

2. Generic changes to Tier 2 information are applicable to all applicants or licensees who reference this appendix, except those for which the change has been rendered technically irrelevant by action taken under paragraphs B.3, B.4, B.5, or B.6 of this section.

3. The Commission may not require new requirements on Tier 2 information by plant-specific order while this appendix is in effect under 10 CFR 52.55 or 52.61, unless:

a. A modification is necessary to secure compliance with the Commission's regulations applicable and in effect at the time this appendix was approved, as set forth in Section V of this appendix, or to ensure adequate protection of the public health and safety or the common defense and security; and

b. Special circumstances as defined in 10 CFR 50.12(a) are present.

4. An applicant or licensee who references this appendix may request an exemption from Tier 2 information. The Commission may grant such a request only if it determines that the exemption will comply with the requirements of 10 CFR 50.12(a). The Commission will deny a request for an exemption from Tier 2, if it finds that the design change will result in a significant decrease in the level of safety otherwise provided by the design. The grant of an exemption to an applicant must be subject to litigation in the same manner as other issues material to the license hearing. The grant of an exemption to a licensee must be subject to an opportunity for a hearing in the same manner as license amendments.

5.a. An applicant or licensee who references this appendix may depart from Tier 2 information, without prior NRC

approval, unless the proposed departure involves a change to or departure from Tier 1 information, Tier 2\* information, or the TS, or requires a license amendment under paragraph B.5.b or B.5.c of this section. When evaluating the proposed departure, an applicant or licensee shall consider all matters described in the plant-specific DCD.

b. A proposed departure from Tier 2, other than one affecting resolution of a severe accident issue identified in the plant-specific DCD or one affecting information required by 10 CFR 52.47(a)(28) to address aircraft impacts, requires a license amendment if it would:

(1) Result in more than a minimal increase in the frequency of occurrence of an accident previously evaluated in the plant-specific DCD;

(2) Result in more than a minimal increase in the likelihood of occurrence of a malfunction of a structure, system, or component (SSC) important to safety and previously evaluated in the plant-specific DCD;

(3) Result in more than a minimal increase in the consequences of an accident previously evaluated in the plant-specific DCD;

(4) Result in more than a minimal increase in the consequences of a malfunction of an SSC important to safety previously evaluated in the plant-specific DCD;

(5) Create a possibility for an accident of a different type than any evaluated previously in the plant-specific DCD;

(6) Create a possibility for a malfunction of an SSC important to safety with a different result than any evaluated previously in the plant-specific DCD;

(7) Result in a design basis limit for a fission product barrier as described in the plant-specific DCD being exceeded or altered; or

(8) Result in a departure from a method of evaluation described in the plant-specific DCD used in establishing the design bases or in the safety analyses.

c. A proposed departure from Tier 2 affecting resolution of an ex-vessel severe accident design feature identified in the plant-specific DCD, requires a license amendment if:

(1) There is a substantial increase in the probability of an ex-vessel severe accident such that a particular ex-vessel severe accident previously reviewed and determined to be not credible could become credible; or

(2) There is a substantial increase in the consequences to the public of a particular ex-vessel severe accident previously reviewed.

d. A proposed departure from Tier 2 information required by 10 CFR 52.47(a)(28) to address aircraft impacts shall consider the effect of the changed design feature or functional capability on the original aircraft impact assessment required by 10 CFR 50.150(a). The applicant or licensee shall describe in the plant-specific DCD how the modified design features and functional capabilities continue to meet the aircraft impact assessment requirements in 10 CFR 50.150(a)(1).

e. If a departure requires a license amendment under paragraph B.5.b or B.5.c of this section, it is governed by 10 CFR 50.90.

f. A departure from Tier 2 information that is made under paragraph B.5 of this section does not require an exemption from this appendix.

g. A party to an adjudicatory proceeding for either the issuance, amendment, or renewal of a license or for operation under 10 CFR 52.103(a), who believes that an applicant or licensee who references this appendix has not complied with paragraph VIII.B.5 of this appendix when departing from Tier 2 information, may petition to admit into the proceeding such a contention. In addition to compliance with the general requirements of 10 CFR 2.309, the petition must demonstrate that the departure does not comply with paragraph VIII.B.5 of this appendix. Further, the petition must demonstrate that the change bears on an asserted noncompliance with an ITAAC acceptance criterion in the case of a 10 CFR 52.103 preoperational hearing, or that the change bears directly on the amendment request in the case of a hearing on a license amendment. Any other party may file a response. If, on the basis of the petition and any response, the presiding officer determines that a sufficient showing has been made, the presiding officer shall certify the matter directly to the Commission for determination of the admissibility of the contention. The Commission may admit such a contention if it determines the petition raises a genuine issue of material fact regarding compliance with paragraph VIII.B.5 of this appendix.

6.a. An applicant who references this appendix may not depart from Tier 2\* information, which is designated with italicized text or brackets and an asterisk in the generic DCD, without NRC approval. The departure will not be considered a resolved issue, within the meaning of Section VI of this appendix and 10 CFR 52.63(a)(5).

b. A licensee who references this appendix may not depart from the following Tier 2\* matters without prior NRC approval. A request for a departure will be treated as a request for a license amendment under 10 CFR 50.90.

(1) Fuel mechanical and thermal-mechanical design evaluation reports, including fuel burnup limits.

(2) Control rod mechanical and nuclear design reports.

(3) Fuel nuclear design report.

(4) Critical power correlation.

(5) Fuel licensing acceptance criteria.

(6) Control rod licensing acceptance criteria.

(7) Mechanical and structural design of spent fuel storage racks.

c. A licensee who references this appendix may not, before the plant first achieves full power following the finding required by 10 CFR 52.103(g), depart from the following Tier 2\* matters except under paragraph B.6.b of this section. After the plant first achieves full power, the following Tier 2\* matters revert to Tier 2 status and are subject to the departure provisions in paragraph B.5 of this section.

(1) ASME Boiler and Pressure Vessel Code, Section III.

(2) American Concrete Institute 349 and American National Standards Institute/

American Institute of Steel Construction-N690.

- (3) Motor-operated valves.
  - (4) Equipment seismic qualification methods.
  - (5) Piping design acceptance criteria.
  - (6) Instrument setpoint methodology.
  - (7) Safety-Related Distribution Control and Information System performance specification and architecture.
  - (8) Safety System Logic and Control hardware and software.
  - (9) Human factors engineering design and implementation.
  - (10) First of a kind testing for reactor stability (first plant only).
  - (11) Reactor precritical heatup with reactor water cleanup/shutdown cooling (first plant only).
  - (12) Isolation condenser system heatup and steady state operation (first plant only).
  - (13) Power maneuvering in the feedwater temperature operating domain (first plant only).
  - (14) Load maneuvering capability (first plant only).
  - (15) Defense-in-depth stability solution evaluation test (first plant only).
- d. Departures from Tier 2\* information that are made under paragraph B.6 of this section do not require an exemption from this appendix.

#### C. Operational Requirements

1. Generic changes to generic TS and other operational requirements that were completely reviewed and approved in the design certification rulemaking and do not require a change to a design feature in the generic DCD are governed by the requirements in 10 CFR 50.109. Generic changes that require a change to a design feature in the generic DCD are governed by the requirements in paragraphs A or B of this section.
2. Generic changes to generic TS and other operational requirements are applicable to all applicants who reference this appendix, except those for which the change has been rendered technically irrelevant by action taken under paragraphs C.3 or C.4 of this section.
3. The Commission may require plant-specific departures on generic TS and other operational requirements that were completely reviewed and approved, provided a change to a design feature in the generic DCD is not required and special circumstances as defined in 10 CFR 2.335 are present. The Commission may modify or supplement generic TS and other operational requirements that were not completely reviewed and approved or require additional TS and other operational requirements on a plant-specific basis, provided a change to a design feature in the generic DCD is not required.
4. An applicant who references this appendix may request an exemption from the generic TS or other operational requirements. The Commission may grant such a request only if it determines that the exemption will comply with the requirements of 10 CFR 52.7. The grant of an exemption must be subject to litigation in the same manner as other issues material to the license hearing.

5. A party to an adjudicatory proceeding for the issuance, amendment, or renewal of a license, or for operation under 10 CFR 52.103(a), who believes that an operational requirement approved in the DCD or a TS derived from the generic TS must be changed may petition to admit such a contention into the proceeding. The petition must comply with the general requirements of 10 CFR 2.309 and must demonstrate why special circumstances as defined in 10 CFR 2.335 are present, or demonstrate compliance with the Commission's regulations in effect at the time this appendix was approved, as set forth in Section V of this appendix. Any other party may file a response to the petition. If, on the basis of the petition and any response, the presiding officer determines that a sufficient showing has been made, the presiding officer shall certify the matter directly to the Commission for determination of the admissibility of the contention. All other issues with respect to the plant-specific TS or other operational requirements are subject to a hearing as part of the license proceeding.
6. After issuance of a license, the generic TS have no further effect on the plant-specific TS. Changes to the plant-specific TS will be treated as license amendments under 10 CFR 50.90.

#### IX. Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC)

[Reserved]

#### X. Records and Reporting

##### A. Records

1. The applicant for this appendix shall maintain a copy of the generic DCD that includes all generic changes it makes to Tier 1 and Tier 2, and the generic TS and other operational requirements. The applicant shall maintain the SUNSI (including proprietary information) and safeguards information referenced in the generic DCD for the period that this appendix may be referenced, as specified in Section VII of this appendix.
2. An applicant or licensee who references this appendix shall maintain the plant-specific DCD to accurately reflect both generic changes to the generic DCD and plant-specific departures made under Section VIII of this appendix throughout the period of application and for the term of the license (including any period of renewal).
3. An applicant or licensee who references this appendix shall prepare and maintain written evaluations which provide the bases for the determinations required by Section VIII of this appendix. These evaluations must be retained throughout the period of application and for the term of the license (including any period of renewal).
- 4.a. The applicant for the ESBWR design shall maintain a copy of the aircraft impact assessment performed to comply with the requirements of 10 CFR 50.150(a) for the term of the certification (including any period of renewal).
- b. An applicant or licensee who references this appendix shall maintain a copy of the aircraft impact assessment performed to comply with the requirements of 10 CFR 50.150(a) throughout the pendency of the application and for the term of the license (including any period of renewal).

##### B. Reporting

1. An applicant or licensee who references this appendix shall submit a report to the NRC containing a brief description of any plant-specific departures from the DCD, including a summary of the evaluation of each. This report must be filed in accordance with the filing requirements applicable to reports in 10 CFR 52.3.
2. An applicant or licensee who references this appendix shall submit updates to its DCD, which reflect the generic changes to and plant-specific departures from the generic DCD made under Section VIII of this appendix. These updates shall be filed under the filing requirements applicable to final safety analysis report updates in 10 CFR 52.3 and 50.71(e).
3. The reports and updates required by paragraphs X.B.1 and X.B.2 of this appendix must be submitted as follows:
  - a. On the date that an application for a license referencing this appendix is submitted, the application must include the report and any updates to the generic DCD.
  - b. During the interval from the date of application for a license to the date the Commission makes its finding required by 10 CFR 52.103(g), the report must be submitted semi-annually. Updates to the plant-specific DCD must be submitted annually and may be submitted along with amendments to the application.
  - c. After the Commission makes the finding required by 10 CFR 52.103(g), the reports and updates to the plant-specific DCD must be submitted, along with updates to the site-specific portion of the final safety analysis report for the facility, at the intervals required by 10 CFR 50.59(d)(2) and 50.71(e)(4), respectively, or at shorter intervals as specified in the license.

Dated at Rockville, Maryland, this 16th day of March 2011.

For the Nuclear Regulatory Commission.

**Annette Vietti-Cook,**  
*Secretary of the Commission.*

[FR Doc. 2011-6839 Filed 3-23-11; 8:45 am]

BILLING CODE 7590-01-P

## NATIONAL CREDIT UNION ADMINISTRATION

### 12 CFR Part 741

RIN 3133-AD66

#### Interest Rate Risk

**AGENCY:** National Credit Union Administration (NCUA).

**ACTION:** Proposed rule.

**SUMMARY:** NCUA proposes to amend its regulations to require Federally insured credit unions to have a written policy addressing interest rate risk (IRR) management and an effective IRR program as part of their asset liability management. NCUA also is proposing draft guidance in the form of an appendix to its regulations to assist

## Kauffman, John

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 12:56 PM  
**To:** Boska, John  
**Subject:** RE: Follow-up to meeting with New York State on IP2/3 Seismic Issues  
**Attachments:** image001.gif

Thanks, John. JVK

---

**From:** Boska, John  
**Sent:** Thursday, March 24, 2011 12:24 PM  
**To:** Kauffman, John; Jones, Steve  
**Cc:** Istar, Ata  
**Subject:** RE: Follow-up to meeting with New York State on IP2/3 Seismic Issues

John,  
One obvious resource is the plant UFSAR. These are located on the NRC server Y:/APPS/CDIMAGES/FSAR . Just use My Computer to navigate there. You can then right click and select a desktop shortcut if you wish. For IP2, see section 9.5.2.1.4. (IP3 in same area).  
Another is the review done for license renewal. The NRC's final SER is in NUREG-1930, 2 volumes, ML093170451, ML093170671. There is some SFP work in there.  
Also, Ata Istar is reviewing the Indian Point SFPs, you could contact him.  
Also, in 1996 NRR did a review of the licensing basis for all spent fuel pools, but I don't think there was much seismic review.  
There were license amendments on the spent fuel pools for high-density storage. You can find these in ADAMS by searching using the docket number and date. For IP2, amendment 150 was on 4/19/90. For IP3, see amendment 90, dated 10/12/89.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: [john.boska@nrc.gov](mailto:john.boska@nrc.gov)

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** Jones, Steve; Boska, John  
**Subject:** Follow-up to meeting with New York State on IP2/3 Seismic Issues

Steve, John,

One of the follow-up items from this week's meeting was to learn what seismic evaluations had been done on the IP 2 and 3 SFPs (and when these evaluations were down). Do you have any info or can you point me in the right direction? Thanks in advance.



*John V. Kauffman*  
Senior Reactor Systems Engineer

US NRC/RES/DRA/OEGIB  
Washington, DC 20555 Mail Stop: C-2A07M  
Phone: 301-251-7465  
Fax: 301-251-7410

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

**From:** [Rini, Brett](#)  
**To:** [Boyce, Tom \(RES\)](#)  
**Cc:** [Case, Michael](#)  
**Subject:** FW: Action: Please schedule the 29th Pre-CSS meeting brief for May 10, 3-4:30pm  
**Date:** Thursday, March 24, 2011 12:56:49 PM

---

Tom,

Mike takes the lead for the meeting for NUSSC, but you or your staff will need to be there to support.

Brett

---

**From:** Williams, Shawn  
**Sent:** Thursday, March 24, 2011 8:26 AM  
**To:** Cianci, Sandra  
**Cc:** Abu-Eid, Bobby; Astwood, Heather; Brach, Bill; Camper, Larry; Case, Michael; Cook, John; Cool, Donald; Holahan, Vincent; Lewis, Robert; Rini, Brett; Sampson, Michele; Schwartzman, Jennifer; Virgilio, Martin; Weaver, Doug; Williams, Shawn; Rosales-Cooper, Cindy; Diec, David  
**Subject:** Action: Please schedule the 29th Pre-CSS meeting brief for May 10, 3-4:30pm

Hi Sandy,

Please schedule a meeting with Marty:

Date/Time: May 10, 3-4:30pm

Subject: Pre - 29<sup>th</sup> CSS Brief

Invitees: Invite everyone in the cc: line. (Includes the SSC Reps/TAs and IAEA Safety Standard coordinators for NRO, NRR, and NSIR )

Process:

As in the past, we will go through the agenda with the SSC Reps. leading the discussion on the agenda items that pertain to their SSC.

Thanks,  
Shawn Williams  
Executive Technical Assistant  
Office of the Executive Director for Operations  
301-415-1009

AG/989

**From:** [HOO Hoc](#)  
**To:** [HOO Hoc](#)  
**Subject:** Braidwood Declares Unusual Event for Loss of Annunciators.  
**Date:** Thursday, March 24, 2011 12:58:42 PM

---

During preplanned maintenance on Unit 2 control room alarm cabinets, more annunciators were lost than expected (> 75%). Maintenance was terminated and the annunciators were restored. The plant was operating at 100% power and remained stable during and after this event. The Unusual Event was terminated and an investigation will be conducted to determine the cause of the event. The NRC remained in the Normal Mode.

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



AG/990

**Kauffman, John**

---

**From:** Smith, April  
**Sent:** Thursday, March 24, 2011 1:03 PM  
**To:** Kauffman, John  
**Subject:** RE: Going back to school

Thank you, John. I really appreciate your kind words.

---

**From:** Kauffman, John  
**Sent:** Wednesday, March 23, 2011 9:10 AM  
**To:** Smith, April  
**Subject:** Going back to school

Congrats! The branch and GI Program are going to feel your loss. JVK



**From:** [Boyce, Tom \(RES\)](#)  
**To:** [Rini, Brett](#)  
**Cc:** [Case, Michael](#); [Carpenter, Robert](#)  
**Subject:** RE: Action: Please schedule the 29th Pre-CSS meeting brief for May 10, 3-4:30pm  
**Date:** Thursday, March 24, 2011 1:13:29 PM

---

OK. Rob Carpenter stepped up today to take on the codes and standards work from you until we get a GG-15 in place.

Tom

---

**From:** Rini, Brett  
**Sent:** Thursday, March 24, 2011 12:57 PM  
**To:** Boyce, Tom (RES)  
**Cc:** Case, Michael  
**Subject:** FW: Action: Please schedule the 29th Pre-CSS meeting brief for May 10, 3-4:30pm

Tom,

Mike takes the lead for the meeting for NUSSC, but you or your staff will need to be there to support.

Brett

---

**From:** Williams, Shawn  
**Sent:** Thursday, March 24, 2011 8:26 AM  
**To:** Cianci, Sandra  
**Cc:** Abu-Eid, Bobby; Astwood, Heather; Brach, Bill; Camper, Larry; Case, Michael; Cook, John; Cool, Donald; Holahan, Vincent; Lewis, Robert; Rini, Brett; Sampson, Michele; Schwartzman, Jennifer; Virgilio, Martin; Weaver, Doug; Williams, Shawn; Rosales-Cooper, Cindy; Diec, David  
**Subject:** Action: Please schedule the 29th Pre-CSS meeting brief for May 10, 3-4:30pm

Hi Sandy,

Please schedule a meeting with Marty:

Date/Time: May 10, 3-4:30pm

Subject: Pre - 29<sup>th</sup> CSS Brief

Invitees: Invite everyone in the cc: line. (Includes the SSC Reps/TAs and IAEA Safety Standard coordinators for NRO, NRR, and NSIR )

Process:

As in the past, we will go through the agenda with the SSC Reps. leading the discussion on the agenda items that pertain to their SSC.

Thanks,  
Shawn Williams  
Executive Technical Assistant  
Office of the Executive Director for Operations

AG/992

301-415-1009

## Zabel, Joseph

---

**Subject:** HCCB Branch Meeting  
**Location:** 6th Floor Huddle Room or 2nd Floor if busy

**Start:** Thu 3/24/2011 1:15 PM  
**End:** Thu 3/24/2011 2:00 PM  
**Show Time As:** Tentative

**Recurrence:** (none)

**Meeting Status:** Not yet responded

**Organizer:** Donaldson, Leslie

**Required Attendees:** Bonaccorso, Amy; Brobst, Janet; Chan, Deborah; Dempsey, Heather; Frampton, Julie; Johnson, Kevin; Okleson, Edward; Purdie, Deonna; Vera, Graciela; Zabel, Joseph; Sangimino, Donna-Marie; Valentin, Andrea; Pope, Tia; Veltri, Debra; Uhle, Jennifer

**Optional Attendees:** Gallalee, Trish; Kardaras, Tom

**From:** [Coe, Doug](#)  
**To:** [Ibarra, Jose](#)  
**Cc:** [Coyne, Kevin](#)  
**Subject:** RE: spo inputs  
**Date:** Thursday, March 24, 2011 1:18:00 PM

---

Jose,

Provide you have made the edits we discussed, please submit this to close the ticket.

Thanks,

Doug

---

**From:** Ibarra, Jose  
**Sent:** Thursday, March 24, 2011 12:52 PM  
**To:** Coe, Doug  
**Subject:** FW: spo inputs

FYI

---

**From:** Ibarra, Jose  
**Sent:** Thursday, March 24, 2011 12:50 PM  
**To:** Coyne, Kevin  
**Subject:** RE: spo inputs

Kevin,

I met with Doug yesterday afternoon to discuss the edits for all the inputs. This included input from you. Attached is DRA input. This the information that I used to populated the G:/folder. Jose

---

**From:** Coyne, Kevin  
**Sent:** Thursday, March 24, 2011 12:43 PM  
**To:** Ibarra, Jose  
**Subject:** spo inputs

Jose –

Did you get these sent out? I didn't see an email on them – if you have already sent them, could you just send me a copy of what went up?

Thanks!

Kevin

AG/994

**From:** [Ibarra, Jose](#)  
**To:** [Coyne, Kevin](#)  
**Cc:** [Coe, Doug](#)  
**Subject:** RE: spo inputs  
**Date:** Thursday, March 24, 2011 1:19:12 PM

---

Kevin,  
I talked to Brett to make sure that putting the input in the folder was sufficient to met the due date. Jose

---

**From:** Coyne, Kevin  
**Sent:** Thursday, March 24, 2011 1:13 PM  
**To:** Ibarra, Jose  
**Subject:** RE: spo inputs

Thanks Jose –

Were you able to close out the ticket for DRA?

Kevin

---

**From:** Ibarra, Jose  
**Sent:** Thursday, March 24, 2011 12:50 PM  
**To:** Coyne, Kevin  
**Subject:** RE: spo inputs

Kevin,  
I met with Doug yesterday afternoon to discuss the edits for all the inputs. This included input from you. Attached is DRA input. This the information that I used to populated the G:/folder. Jose

---

**From:** Coyne, Kevin  
**Sent:** Thursday, March 24, 2011 12:43 PM  
**To:** Ibarra, Jose  
**Subject:** spo inputs

Jose –

Did you get these sent out? I didn't see an email on them – if you have already sent them, could you just send me a copy of what went up?

Thanks!

Kevin

AG/995

**From:** Hudson, Daniel (RES/DRA)  
**To:** Coe, Doug  
**Cc:** Coyne, Kevin; Stutzke, Martin  
**Subject:** Feedback from Agenda Planning Meeting - Level 3 PRA Paper  
**Date:** Thursday, March 24, 2011 1:22:33 PM  
**Importance:** High

---

Doug,

A couple of thoughts/questions on the Chairman's feedback:

- (1) Does the request for a discussion topic on severe accidents seem to suggest that there should be a section of the SECY paper or an enclosure that specifically addresses this topic? Marty has originally envisioned the first enclosure as an integrated view of severe accident research and how both SOARCA and Level 3 PRA fit into the picture. Perhaps we should expand upon this without going into details about SOARCA?
- (2) I can reach out to the following individuals that I coordinated with during the scheduling of the Level 3 PRA public meeting to see if they would be interested in participating in an external panel at the Commission meeting on 7/28:

NEI - Biff Bradley, Director of Risk Assessment  
EPRI - Stuart Lewis, Program Manager for Risk and Safety Management  
UCS - Ed Lyman, Senior Scientist

Would you like me to make contact, or should we discuss further internally beforehand?

Thanks,  
Dan

---

**From:** Bowman, Gregory  
**Sent:** Thursday, March 24, 2011 1:07 PM  
**To:** Coe, Doug  
**Cc:** Gibson, Kathy; Sheron, Brian; Uhle, Jennifer; Coyne, Kevin; Hudson, Daniel  
**Subject:** Feedback from Agenda Planning Meeting - Level 3 PRA Paper  
**Importance:** High

I just received the Chairman's feedback on the Level III PRA meeting. Here's what he provided, which will need to be rolled into a revised scheduling note:

- (1) Delete everything associated with SOARCA.
- (2) Add a discussion topic on severe accidents to the NRC panel. The Chairman apparently didn't provide any more detail on what he's looking for from this, but it shouldn't involve a discussion of SOARCA (although maybe one of the staff working on SOARCA would be the right person to present). We'll need to revise the scheduling note to incorporate this topic, but we might have to spend some time discussing what he wants us to actually discuss.

AG/996

(3) The Chairman wants us to add an external panel. He suggested EPRI or ASME, but feel free to substitute any other organizations that would be better. We'd probably need two groups to be represented, although one might be okay. We'll need names of the organizations now, but the presenter names can be left as TBD. If it turns out that we need to switch organizations later, that shouldn't be a big problem.

(4) The meeting got moved back to July 28. The paper will still be due on June 30 to OEDO and July 7 to the Commission.

We need to get a revised scheduling note to SECY as soon as possible, but before COB tomorrow. If you need help with it or have any questions, please give me a call. If there's confusion, I can set up a call with Jim A., since he was at the meeting with the Chairman.

Greg

---

**From:** Coe, Doug  
**Sent:** Wednesday, March 23, 2011 5:49 PM  
**To:** Bowman, Gregory  
**Cc:** Gibson, Kathy; Scott, Michael; Sheron, Brian; Uhle, Jennifer; Coyne, Kevin; Hudson, Daniel; Stutzke, Martin  
**Subject:** RE: Agenda Planning Meeting - Level 3 PRA Paper

Greg –

Just so you know, we are waiting to hear that we have a green light on this approach before proceeding with changing the current Commission meeting scheduling note and the ACRS subcommittee meeting arrangements.

Please confirm with us, when you can, that we should move forward on this path.

Thanks so much,

Doug

---

**From:** Coe, Doug  
**Sent:** Tuesday, March 22, 2011 5:56 PM  
**To:** Bowman, Gregory  
**Cc:** Gibson, Kathy; Scott, Michael; Sheron, Brian; Uhle, Jennifer; Coyne, Kevin; Hudson, Daniel; Stutzke, Martin  
**Subject:** RE: Agenda Planning Meeting - Level 3 PRA Paper

Greg,

RES can support providing a Level III PRA SECY paper to the Commission by June 20 (in support of a Commission meeting on July 5 or later). This would entail a due date to OEDO of June 13.

However, our original plan of a paper with joint Level III/SOARCA recommendations will need to be modified to include ONLY the Level III PRA options/recommendations.

Note that we were planning to meet with the ACRS subcommittees in May and the ACRS full Committee in June (June 8-10) and would not be able to incorporate any ACRS letter recommendations into our paper before sending it to OEDO on June 13. However, the Committee had already offered to provide its letter in June, so the staff and Commission will still have the

benefit of ACRS views at a Commission meeting in July.

Since this approach constitutes a change from the previous joint PRA/SOARCA SECY paper strategy, please let us know if Mike Weber would like to be briefed.

We are happy to help with any communication you need to make to the Chairman's office.

Thanks,  
Doug

---

**From:** Bowman, Gregory  
**Sent:** Tuesday, March 22, 2011 10:05 AM  
**To:** Sheron, Brian; Uhle, Jennifer; Coe, Doug; Coyne, Kevin  
**Cc:** Gibson, Kathy; Scott, Michael  
**Subject:** Agenda Planning Meeting - Level 3 PRA Paper  
**Importance:** High

I'm not sure if you saw this on the Chairman's agenda that Mike sent out over the weekend, but the Chairman is looking to move the Level 3 PRA meeting up to early July. That would mean the paper would need to come to the Commission in mid-June (several weeks earlier than currently scheduled).

Can you let me know if that's even doable? I know there was some coordination between the Level 3 paper and SOARCA (if I remember right, you were trying to publish the draft SOARCA paper for public comment before the Commission meeting, but I might have that wrong), and that might add some additional complications.

If either you can't move up the Level 3 paper or moving it up is going to cause significant consequences (e.g., you won't be able to discuss SOARCA), please let me know as soon as possible. If that's the case, we'll need to communicate those concerns to the Chairman's office. I'll take care of that, but I'll need some help in coming up with language.

---

**From:** Weber, Michael  
**Sent:** Sunday, March 20, 2011 6:52 PM  
**To:** Sheron, Brian; Uhle, Jennifer; Haney, Catherine; Kinneman, John; Miller, Charles; Moore, Scott; Zimmerman, Roy; McCrary, Cheryl  
**Cc:** Brock, Kathryn; Frazier, Alan; Bowman, Gregory  
**Subject:** FYI - Agenda Planning Meeting

Early awareness of potential proposed changes to the Commission calendar...stay tuned

---

**From:** Andersen, James  
**To:** Borhardt, Bill; Virgilio, Martin; Weber, Michael; Ash, Darren; Muessle, Mary; Landau, Mindy; Leeds, Eric  
**Cc:** Baval, Rochelle; Laufer, Richard; Vietti-Cook, Annette  
**Sent:** Sun Mar 20 18:18:07 2011  
**Subject:** Agenda Planning Meeting



Over the weekend, I have been called into a number of Agenda Planning discussions with the Chairman's office and finally today with the Chairman. I believe the attached is close to what the Chairman plans to propose during the 11:00am meeting. The Chairman understands this is aggressive and may push the staff to far. A point I tried to make a couple times in a nice manner. I can discuss more during the 8:00am meeting if needed. Since I created this document, I don't know how close this will be to the actual document the Chairman's office creates for the Chairman's use.

I have copied SECY to give them a heads up.

Jim A.

## Kauffman, John

---

**From:** Bensi, Michelle  
**Sent:** Thursday, March 24, 2011 1:23 PM  
**To:** Kauffman, John  
**Subject:** RE: Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/25/2011. [eom]

Thanks,  
Shelby

### Last week activities

- Worked in Ops Center (seismic Q&A document)
- Generic Issues Program tagline meeting (including prep)
- (More) final touches on screening report related to flooding due to upstream dam failure
- Attended a small portion of the CCF workshop

### Next week activities

- Seismic Q&A document

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 8:16 AM  
**To:** Bensi, Michelle; Ibarra, Jose; Killian, Lauren; Lane, John; Reisifard, Mehdi; Perkins, Richard; Smith, April  
**Subject:** Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/25/2011. [eom]

**From:** [Boska, John](#)  
**To:** [Beasley, Benjamin](#)  
**Cc:** [Coe, Doug](#)  
**Subject:** RE: Documents due to New York State  
**Date:** Thursday, March 24, 2011 1:24:15 PM

---

Thanks.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: [john.boska@nrc.gov](mailto:john.boska@nrc.gov)

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 1:11 PM  
**To:** Boska, John  
**Cc:** Coe, Doug  
**Subject:** RE: Documents due to New York State

Link on public Web site:  
<http://adamswebsearch2.nrc.gov/idmws/ViewDocByAccession.asp?AccessionNumber=ML100270582>

ADAMS Accession No.: ML100270582

We are working on the other IOUs.

Ben

---

**From:** Boska, John  
**Sent:** Thursday, March 24, 2011 12:27 PM  
**To:** Coe, Doug; Beasley, Benjamin  
**Subject:** Documents due to New York State  
**Importance:** High

Please provide me the ML number for the GI-199 risk assessment review report, or a web page link. Thanks.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: [john.boska@nrc.gov](mailto:john.boska@nrc.gov)

AG/998

**From:** Cusumano, Victor on behalf of DCI CALENDAR Resource  
**To:** DCI CALENDAR Resource; Karwoski, Kenneth; Hull, Amy; Riddely, John; Cheruvenci, Ganesh; Rao, Appajosula; Fairbanks, Carolyn; Kirk, Mark; Harris, Charles; Csontos, Aladar; Ruland, William; Dunn, Darrell; Prokofiev, Iouri; Moyer, Carol; Collins, Jay; Naujock, Don; Norris, Wallace; Carpenter, Gene; Hiser, Allen; Mitchell, Matthew; Lubinski, John; McMurtray, Anthony; Evans, Michele; Case, Michael; Richards, Stuart; Hardies, Robert; Tregoning, Robert; Lupold, Timothy; Terao, David; Ray, Neil; Reichelt, Eric; Honcharik, John; Rudland, David; Makar, Gregory; Taylor, Robert; Thomas, Brian; Cusumano, Victor; Wong, Emma; Klein, Paul  
**Cc:** Malik, Shah; Gavrilas, Mirela; Obodoako, Aloysius  
**Subject:** Canceled: RESCHEDULED - SEE SEPERATE INVITE - User Need Status Meeting - Containment Liner Corrosion (Klein)  
**Importance:** High

---

When: Thursday, March 24, 2011 1:30 PM-3:30 PM (GMT-05:00) Eastern Time (US & Canada).  
Where: O-7B4

Note: The GMT offset above does not reflect daylight saving time adjustments.

\*~\*~\*~\*~\*~\*~\*~\*~\*~\*

NRR-2010-002

AG/999

**From:** [Sheron, Brian](#)  
**To:** [Richards, Stuart](#)  
**Cc:** [Case, Michael](#)  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Date:** Thursday, March 24, 2011 1:32:12 PM

---

My concern is that if we need data, the NRO needs to tell DOE to go get it.

---

**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 12:34 PM  
**To:** Sheron, Brian  
**Cc:** Case, Michael  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)

Brian

Yes, DOE personnel (Dr. Tim Burchell of ORNL and Dr. Wil Windes of INL) have been invited. However, DOE is not presently conducting research related to understanding graphite fracture; rather, they are in a mode to gather material strength and other property characterizations after limited irradiation.

Our interest is not to solve issues, but rather to understand what the issues are with graphite, in order that we have the knowledge and regulatory guidance to do our safety review and ask the right questions. Attendance at the meeting by DOE will not help us in this regard. Additionally, it will benefit us if research at the international level addresses some of the issues that are likely to come up during our safety reviews.

Some of the regulatory topics that will be covered at the meeting include inservice inspections related to graphite cracking and the sufficiency of ASME Code design margins related to graphite. Graphite fracture in a reactor may directly affect the integrity of fuel and control rod channels, and there is the potential for blockage due to spalling from localized fracturing, so this area is safety significant for a graphite moderated design.

Stu

---

**From:** Sheron, Brian  
**Sent:** Thursday, March 24, 2011 11:10 AM  
**To:** Richards, Stuart  
**Subject:** RE: Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)

And what research is DOE doing on this issue? Was DOE invited? If not, why not?

---

**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 10:43 AM  
**To:** Sheron, Brian  
**Cc:** Case, Michael; Rivera-Lugo, Richard  
**Subject:** Request for Approval of Foreign Travel (Trip #189 on Graphite Cracking)  
**Importance:** High

Brian

AG/1650

This request is in regard to a proposed trip for Srimi to London for a meeting on graphite issues.

When Mike and I last discussed the trip with you, you asked for more information on the organization of the meeting.

The meeting is scheduled for April 11 – 13 and is organized by the UK Nuclear Installations Inspectorate (HSE) and EdF Energy, the operator of British AGRs .

The purpose of the meeting is to gather selected experts from around the world (a dozen or so), to establish an understanding on the scope of the problem of graphite fracture in high temperature gas cooled reactors. Srimi is our expert on graphite.

The value of the meeting to the NRC is that we will draw on the extensive graphite knowledge and experience of other countries to inform our graphite work. Gaining knowledge in this area from others should save us a significant amount of money and time. The meeting will also allow us to be part of the discussion on what future research needs to be done, some of which may be carried out by other countries, potentially saving us the resources to do it ourselves. The outcome of this meeting will also aid NRC's future research planning, and will contribute to the technical basis for staff positions, interim staff guidance development, and regulatory guide development.

It is unlikely that we could gain this information via e-mails and telephone calls. Attendance at the meeting is consistent with our research plan in this area. NRO has advocated drawing on international partners for information on graphite.

We think the potential benefits of this trip to the NRC are significant and recommend approval.

Thanks  
Stu

**From:** [Federal Computer Week and GCN](#)  
**To:** [Case, Michael](#)  
**Subject:** CyberSecurity 101: Safeguarding Against Internal Security Breaches  
**Date:** Thursday, March 24, 2011 1:52:51 PM

---

Michael,

Cyber threats are not only coming from outside the walls of federal agencies, but are increasingly occurring internally; both maliciously and unintentionally. Endpoints, applications and operating systems are quickly evolving while the threat landscape is becoming more difficult to manage.

Join this [Federal Computer Week](#) and [GCN](#) exclusive webcast and learn how to improve your agencies security posture while securing assets and the privacy of individuals.

**Webcast:** [Achieving Situational Awareness With Continuous Monitoring](#)

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- Develop comprehensive reports which can be used in compliance to federal data call requirements (Cyberscope)

**Scott Armstrong, Public Sector Business Development, Symantec**

Scott Armstrong has over 20 years experience delivering enterprise software & security solutions, with significant involvement in the SCAP (Security Content Automation Protocol) community over the last 6 years, and has collaborated with many agencies, vendors, and content providers during that time frame.

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AG/1001

**From:** [Richards, Stuart](#)  
**To:** [Rivera-Lugo, Richard](#)  
**Cc:** [Case, Michael](#)  
**Subject:** RE: REVIEW: SPO Input - Rev 1  
**Date:** Thursday, March 24, 2011 2:00:12 PM

---

Richie

Looks good to me.

Thanks  
Stu

---

**From:** Rivera-Lugo, Richard  
**Sent:** Thursday, March 24, 2011 1:57 PM  
**To:** Case, Michael; Richards, Stuart  
**Subject:** REVIEW: SPO Input - Rev 1

Mike & Stu,

Can you take a quick look at the attached revision of the SPO input? This revision has the comments that both of you provided earlier.

Thanks!

Richie

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



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AG/1002



**From:** [Case, Michael](#)  
**To:** [Rivera-Lugo, Richard](#); [Richards, Stuart](#)  
**Subject:** RE: REVIEW: SPO Input - Rev 1  
**Date:** Thursday, March 24, 2011 2:02:00 PM

---

Looks good for this round.

---

**From:** Rivera-Lugo, Richard  
**Sent:** Thursday, March 24, 2011 1:57 PM  
**To:** Case, Michael; Richards, Stuart  
**Subject:** REVIEW: SPO Input - Rev 1

Mike & Stu,

Can you take a quick look at the attached revision of the SPO input? This revision has the comments that both of you provided earlier.

Thanks!

Richie

*Richard Rivera-Lugo*, EIT, MEM

Technical Assistant (Acting)

U.S. Nuclear Regulatory Commission – HQ

RES/DE

Ph. 301-251-7652

Fax 301-251-7420

Mail M.S. C5C07M

E-mail [Richard.Rivera-Lugo@nrc.gov](mailto:Richard.Rivera-Lugo@nrc.gov)



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AG/1003

From: Meridium  
To: Lamps, Inc.  
Subject: Specifying Reliability Performance that Meets Process Safety Management Expectations  
Date: Thursday, March 24, 2011 2:07:39 PM

Specifying Reliability Performance that Meets Process Safety Management Expectations

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## Specifying Reliability Performance that Meets Process Safety Management Expectations

*K. Bloch & J. Bertsch, Flint Hills Resources, LP & D. Dunmire, Western ROPE, LLC*

fhr\_photos Tolerating repeat failures on machinery that contains potentially hazardous process materials can have disappointing consequences. Learn how this refinery used a quantitative approach to satisfy PSM objectives on potential releases represented by process pump mechanical seal failures.

## Texas A&M Research Corroborates Link between Asset Performance Management and High Performance

*Findings to be presented at Meridium Conference 2011*

Findings from the soon to be released Asset Performance Management Study, conducted by researchers at the Mays Business School, Texas A&M University, confirm that companies using an Asset Performance Management (APM) approach to maintaining their critical production assets tend to out perform others.

AG/1004



## Certification Graduates Usher in New Reliability Era at Super Octanos & Super Metanol

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D\_asme\_march2011

## Resource Optimization in Maintenance Scheduling Applications

*Paul R. Casto, VP Value Implementation, Meridium & Joseph Wilck, PhD, University of Tennessee, Knoxville*

casto\_wilck

The efficiency of the maintenance workforce is an important part of managing maintenance cost. However, optimizing the maintenance work schedule is complicated. Even the most carefully developed maintenance plan can be minimized due to unexpected, random events. Authors Casto and Wilck present a new model for tackling this scheduling challenge.

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**From:** [Coe, Doug](#)  
**To:** [Barnes, Valerie](#); [Peters, Sean](#)  
**Cc:** [Coyne, Kevin](#)  
**Subject:** RE: Stephanie really needs SPSS on her computer  
**Date:** Thursday, March 24, 2011 2:13:00 PM

---

As soon as the CR is extended or (hopefully) resolved we can ask again.

---

**From:** Barnes, Valerie  
**Sent:** Thursday, March 24, 2011 2:08 PM  
**To:** Coe, Doug; Peters, Sean  
**Subject:** Stephanie really needs SPSS on her computer

She is having to use Amy's to start the analyses we really need to have done. Can we ask again for PMDA to approve this purchase and expedite it?

Thanks,

Val

AG/1005

**From:** [Energy Center University](#)  
**To:** [Case, Michael](#)  
**Subject:** Upcoming trainings: facility operations, geoexchange, integrative design, daylighting and more  
**Date:** Thursday, March 24, 2011 2:34:56 PM

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### **Facility operations and maintenance: achieving operational efficiency**

March 28, 2011 | Fitchburg, WI

*Presenting faculty:* David Sellers, P.E.

March 29, 2011 | Oconomowoc, WI

Learn to monitor your facility's energy and other resource use to make it more

March 30, 2011 | Eau Claire, WI

efficient and sustainable. Gain the tools you need to implement more efficient

March 31, 2011 | Duluth, MN

operating strategies and immediately begin to identify and capture savings.

[more](#) | [register now](#)

### **Geoexchange: from concept to completion**

April 12, 2011 | Wausau, WI

*Presenting faculty:* Tom Niesen

[more](#) | [register now](#)

Are you interested in learning about geoexchange systems, also known as ground source heat pumps, or geothermal systems? Receive an overview of heat exchange technologies, system site requirements, installation, and application of the technology in both the retrofit and new construction markets.

### **Designing high performance buildings: using an integrative design process**

April 14, 2011 | Chicago, IL

*Presenting faculty:* Sachin Anand, P.E., LEED AP; Helen Kessler, FAIA, LEED AP

[more](#) | [register now](#)

Discover the value of the integrative design process as well as learn steps and tools to apply to the integrative design process. Participants will engage in a brainstorming exercise similar to what occurs during an eco-charrette (design workshop).

### **Live webinars: Daylighting fundamentals and Daylighting in the Midwest**

April 19, 2011 | Fundamentals

*Presenting faculty:* Tate Walker, AIA, LEED AP and Scott Schuetter, LEED

April 26, 2011 | Tools and Analysis

Green Associate

[more](#) | [register now](#)

Daylighting is the technique of bringing natural light into a space and using it to enhance the space's visual quality as well as energy performance. Quality daylighting design practices are experiencing resurgence as energy costs increase and the sustainability movement gains momentum. The best daylight design begins early and integrates many aspects of building design.

### **Energy efficiency retrofits: demonstrating value and closing sales**

April 27, 2011 | Oak Brook, IL

*Presenting faculty:* Mark Jewell

[more](#) | [register now](#)

Energy efficiency retrofits can be a tough sell to building owners in today's real estate climate. Learn how to increase your sales of energy efficiency solutions, or obtain project funding approval from others within your own organization. We'll discuss financial metrics, presentation formats and selling approaches that help get viable energy-saving projects approved.

### **Energy efficient lighting: from principles to payback**

April 27, 2011 | Fitchburg, WI

*Presenting faculty:* Randy Johnson, LC

[more](#) | [register now](#)

Examine the latest skills and techniques to achieve high quality, energy efficient lighting. Anyone looking at installing new lighting or wanting to find

AG/1006

cost-effective methods to conserve energy (translated to saving dollars) will not want to miss this training.

### **Building green: a LEED primer from the field**

May 4, 2011 | Green Bay, WI  
[more](#) | [register now](#)

*Presenting faculty:* John G. Miller, AIA, LEED AP

Green buildings can offer significant advantages over traditional design and construction methods by improving the indoor building environment, reducing energy costs and making more efficient use of materials. We'll cover the advantages of green building over traditional construction, the fundamental principles of the LEED design process and the significance of energy efficient design as a means for maximizing the return on building investment.

### **Understanding and managing energy efficient motors and drives**

May 10, 2011 | Eau Claire, WI  
May 11, 2011 | Brookfield, WI  
May 12, 2011 | Dubuque, IA  
[more](#) | [register now](#)

*Presenting faculty:* Greg Stark, P.E.

Gain a solid understanding of energy efficient motors—including how to select the most efficient and cost-effective equipment for your facility and how to operate it to maintain its efficiency and operational life span.

### **Energy efficiency in commercial food service**

May 20, 2011 | Oak Brook, IL  
[more](#) | [register now](#)

*Presenting faculty:* Don Fisher

Per square foot, foodservice consumes more energy and water than any other commercial operation, making energy and water savings a motivating force for sustainability in the restaurant business. Identify best practices and energy efficient technologies that will deliver consistent savings. We will highlight energy-efficient lighting technologies for foodservice operations and introduce online tools to help you quantify the energy savings in your facility.



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**From:** [Coe, Doug](#)  
**To:** [Hudson, Daniel](#)  
**Cc:** [Coyne, Kevin](#); [Stutzke, Martin](#)  
**Subject:** RE: Draft Scheduling Note for Level 3 PRA Commission Meeting on 7/28  
**Date:** Thursday, March 24, 2011 2:36:00 PM

---

Good approach – thanks.

I left a vm with Biff. He may call either you or Kevin tomorrow if he doesn't get back to me today (I'll be out tomorrow). We'll see if Brian can find out any more about the SA topic.

Doug

---

**From:** Hudson, Daniel  
**Sent:** Thursday, March 24, 2011 2:29 PM  
**To:** Coe, Doug  
**Cc:** Coyne, Kevin; Stutzke, Martin  
**Subject:** Draft Scheduling Note for Level 3 PRA Commission Meeting on 7/28

Doug,

Attached are the original scheduling note that we submitted on 3/15 and a draft revision to address the Chairman's feedback. I understand that we are still seeking clarification on the severe accident piece, but for now, given his background and firsthand experience in dealing with the TMI and Chernobyl accidents, I incorporated the severe accident discussion into Brian's presentation.

I have also spoken with Stu Lewis from EPRI. He is going to reach out to other individuals within EPRI and will provide a response by tomorrow morning.

I thought it would be worthwhile to at least begin to circulate the draft revision to the scheduling note.

Please let me know if you have any questions, comments, or concerns.

Thanks,  
Dan

**Daniel W. Hudson**  
Technical Assistant  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
Division of Risk Analysis  
[Daniel.Hudson@nrc.gov](mailto:Daniel.Hudson@nrc.gov)  
301-251-7919

AG/1007



**From:** Boyce, Tom (RES)  
**To:** Case, Michael; Richards, Stuart  
**Cc:** Bayssie, Mekonen; Csontos, Aladar; Norris, Wallace  
**Subject:** Status of ACRS letter on RG 1.44  
**Date:** Thursday, March 24, 2011 2:35:14 PM

---

Al Csontos and his group drafted the letter to ACRS and has coordinated it with NRR and NRO.

We in RGDB have the package and are obtaining formal concurrences. Will get to you ASAP. If you desire a read ahead, Steph has the latest version in ADAMS.

Due date to EDO is 3/31.

AG/1008

**From:** [Marian Coe](#)  
**To:** [Coe, Doug](#)  
**Subject:** interesting and timely news article  
**Date:** Thursday, March 24, 2011 2:40:40 PM

---

<http://www.bbc.co.uk/news/world-asia-pacific-12844671>

AG 1009

**From:** Leeds, Eric  
**To:** Nelson, Robert  
**Subject:** RE: FYI - TMI-2 Accident Annual Demonstration 3/28/11  
**Date:** Thursday, March 24, 2011 2:42:00 PM

---

Thank you!

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

---

**From:** Nelson, Robert  
**Sent:** Thursday, March 24, 2011 12:47 PM  
**To:** Leeds, Eric; Boger, Bruce; Grobe, Jack; Giitter, Joseph  
**Subject:** FYI - TMI-2 Accident Annual Demonstration 3/28/11

---

**From:** Kern, David  
**Sent:** Thursday, March 24, 2011 12:30 PM  
**To:** Bellamy, Ronald; Barber, Scott; Heinly, Justin; Bamford, Peter; Screnci, Diane; Sheehan, Neil; Tiff, Doug; McNamara, Nancy  
**Subject:** Reminder - TMI-2 Accident Annual Demonstration 3/28/11

Local citizens are planning to hold a vigil at Three Mile Island's North Gate on Monday, March 28 to mark the 32nd anniversary of the TMI-2 accident. About 20 people are expected to be in attendance. The vigil is expected to last from 3:30 a.m. to 5:00 a.m. but could extend longer.

Please use extra caution all day on Monday when entering and leaving TMI.

TMI security and Pennsylvania State Police will be closely monitoring the event.

At this point, TMI public affairs has received no additional interest in the vigil from outside media.

Dave

AG/1010

**From:** [Siu, Carolyn](#)  
**To:** [Coe, Doug](#); [Barnes, Valerie](#); [Beasley, Benjamin](#); [Coyne, Kevin](#); [Demoss, Gary](#); [Hudson, Daniel](#); [Nicholson, Thomas](#); [Ott, William](#); [Peters, Sean](#); [Salley, MarkHenry](#); [Siu, Nathan](#); [Davis, Chon](#); [Littlejohn, Jennene](#)  
**Subject:** FW: Farewell present for Chris  
**Date:** Thursday, March 24, 2011 2:42:37 PM

---

Forgot to include you guys in the initial email...

---

**From:** Siu, Carolyn  
**Sent:** Thursday, March 24, 2011 2:39 PM  
**To:** RES\_DRA\_ETB; RES\_DRA\_FRB; RES\_DRA\_HFRB; RES\_DRA\_OEGIB; RES\_DRA\_PRAB; RES\_DRA\_PRB  
**Subject:** Farewell present for Chris

Good afternoon DRA,

When you've finished putting in your time, please come up to Carly's desk to sign Chris's farewell cards (there's three of them) and picture. If you would like to contribute to the gift, please see DaBin Ki. Thank you!

## Carolyn Siu

Fiction reveals truths that reality obscures.  
Division line: 301-251-7430  
Direct line: 301-251-7568  
Fax: 301-251-7424  
Email: [Carolyn.Siu@nrc.gov](mailto:Carolyn.Siu@nrc.gov)

AG/1011

**From:** [Coe, Doug](#)  
**To:** [Lui, Christiana](#)  
**Subject:** DRA Division meeting  
**Date:** Thursday, March 24, 2011 2:49:00 PM

---

Chris,

Next Division meeting: April 26<sup>th</sup>, 12:30-2pm

Your ex-Division staff would like to present a token of their appreciation to you. Could you possibly come to CSB to receive it?

Doug

AG/1012

**From:** [Leeds, Eric](#)  
**To:** [Masse, Todd](#); [Johnson, Michael](#)  
**Cc:** [Holahan, Patricia](#); [Schwarz, Sherry](#)  
**Subject:** RE: 15:30 PACOM SVTC  
**Date:** Thursday, March 24, 2011 2:50:00 PM

---

Thanks, Todd. Perhaps I can do the 3:30 tomorrow – can we do it here from the SCIF?

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

---

**From:** Masse, Todd  
**Sent:** Thursday, March 24, 2011 2:01 PM  
**To:** Leeds, Eric; Johnson, Michael  
**Cc:** Holahan, Patricia  
**Subject:** 15:30 PACOM SVTC

Hello Gentlemen,

Given that we have been unable to locate a bridge between the DNI/DoD SVTC system and the NRC system, it does not look like the NRC will participate in the DNI/PACOM SVTC today. As Trisha mentioned in her email, these SVTCs are going to be held daily @ 15:30 and we hope to participate in one and then assess whether it would be valuable to participate more regularly.

I will keep you informed if our secure communications professionals are able to locate a communications bridge. Another alternative is a trip across the river to the Director of National Intelligence's Office to participate in the SVTC there. I understand how valuable your time is, so I'll leave the decision for that option to you and the ET. ☺

Thanks,  
Todd

Todd Masse  
Chief, Intelligence Liaison and Threat Assessment Branch  
Office of Nuclear Security and Incident Response  
Nuclear Regulatory Commission  
(301) 415-7518

AG / 1013

**From:** [Knowledge Management Conference & Expo](#)  
**To:** [Case, Michael](#)  
**Subject:** Full Conference Agenda Announced!  
**Date:** Thursday, March 24, 2011 3:12:04 PM



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**From:** OPA Resource  
**To:** Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Eliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Yvonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Haney, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Magwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlyng, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffrey; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason  
**Subject:** Press Release: NRC Advisory Committee on Reactor Safeguards to Meet April 7-9 in Rockville, Md.  
**Date:** Thursday, March 24, 2011 3:13:26 PM  
**Attachments:** 11-057.docx

---

For issuance in approximately one hour.

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AG/10/5



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No. 11-057

March 24, 2011

## NRC ADVISORY COMMITTEE ON REACTOR SAFEGUARDS TO MEET APR. 7-9 IN ROCKVILLE, MD.

The Nuclear Regulatory Commission's Advisory Committee on Reactor Safeguards (ACRS) will hold a public meeting April 7-9 in Rockville, Md., to discuss several issues of current interest. Some of the topics include:

- the Safety Evaluation Report for Calvert Cliffs Unit 3 combined operating license application;
- emergency planning for small modular reactors;
- the draft final regulatory guide 1.152 on "Criteria for Use of Computers in Safety Systems of Nuclear Power Plants," and cyber security related activities;
- and human factors considerations in emerging technology for nuclear power plants.

The ACRS advises the Commission, independently from the NRC staff, on safety issues related to the licensing and operation of nuclear power plants and in areas of health physics and radiation protection.

The meeting will be held in Room T-2B1 of the agency's Two White Flint North building, at 11545 Rockville Pike. The session on April 7 will run from 8:30 a.m. to 7:00 p.m. The April 8 session will run from 10 a.m. to 7 p.m., and the April 9 session will run from 8:30 a.m. to 1:30 p.m. Portions of the meeting may be closed to discuss proprietary information, as well as organizational and personnel matters. A complete agenda is available on the NRC's website at: <http://www.nrc.gov/reading-rm/doc-collections/acrs/agenda/2011/>.

Anyone with questions or who wants to make oral statements during the meeting should notify Ilka Berrios at (301) 415-3179. For video conferencing services, contact Theron Brown at (301) 415-8066.

###

NOTE: Anyone wishing to take photos or use a camera to record any portion of a NRC meeting should contact the Office of Public Affairs beforehand.

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

## Beasley, Benjamin

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 3:15 PM  
**To:** Perkins, Richard  
**Subject:** FW: Appointment of Generic Issue Review Panel Members for Pre-GI-009  
**Attachments:** image001.gif

---

**From:** Pohida, Marie  
**Sent:** Thursday, March 24, 2011 2:24 PM  
**To:** Beasley, Benjamin  
**Subject:** RE: Appointment of Generic Issue Review Panel Members for Pre-GI-009

Hello Ben,

To keep you up to date, I will be on travel April 4<sup>th</sup> through April 8<sup>th</sup> (Dam Risk training at the US Bureau of Reclamation in Denver), and I will be on annual leave from April 17<sup>th</sup> to April 25<sup>th</sup>. As soon as I get the report, I will start reading it.

Thank you very much.  
Marie

---

**From:** Beasley, Benjamin  
**Sent:** Wednesday, March 23, 2011 6:53 AM  
**To:** Ader, Charles  
**Cc:** Mrowca, Lynn; Lombard, Mark; Pohida, Marie; Perkins, Richard  
**Subject:** RE: Appointment of Generic Issue Review Panel Members for Pre-GI-009

Thank you. Preparation of the screening analysis has required more time than we anticipated but we now have a completed report and we expect to send it to the screening panel today.

The scope of the screening panel work has not changed. We anticipate something between 5 and 25 hours of time from each panel member over the next 4 to 8 weeks.

Ben

---

**From:** Ader, Charles  
**Sent:** Tuesday, March 22, 2011 11:38 PM  
**To:** Beasley, Benjamin  
**Cc:** Mrowca, Lynn; Lombard, Mark; Pohida, Marie  
**Subject:** RE: Appointment of Generic Issue Review Panel Members for Pre-GI-009

Ben,

I approve of Marie serving on the Pre-GI-009 screening panel if her time commitment is limited, as she works a part time schedule and has scheduling commitments involving her reviews in NRO. I trust that between you, Lynn Mrowca (her Branch Chief) and Marie, a reasonable time commitment can be agreed upon.

---

**From:** Beasley, Benjamin  
**Sent:** Wednesday, March 16, 2011 3:30 PM  
**To:** Ader, Charles; Kokajko, Lawrence

**Cc:** Perkins, Richard

**Subject:** Appointment of Generic Issue Review Panel Members for Pre-GI-009

Charlie and Lawrence,

Do you approve of Marie Pohida and Keith Compton serving on the Pre-GI-009 screening panel? We expect to provide the screening analysis report to the panel members within the next few days and intend to call a panel meeting within a week or so.

If you approve of Marie and Keith serving on the screening panel, a reply to this email stating so will be sufficient documentation.

Regards,  
Ben Beasley



Benjamin Beasley, Chief  
Operating Experience and Generic Issues Branch  
Division of Risk Analysis  
Office of Nuclear Regulatory Research  
301-251-7676  
[Benjamin.Beasley@nrc.gov](mailto:Benjamin.Beasley@nrc.gov)  
[Generic Issues Program](#)  
[Operating Experience Databases](#)

**From:** [Cunningham, Liza](#)  
**To:** [Auluck, Rajender](#); [Boyce, Tom \(RES\)](#); [Brock, Kathryn](#); [Campbell, Stephen](#); [Carlson, Robert](#); [Casto, Greg](#); [Chernoff, Harold](#); [Cranston, Gregory](#); [Dennig, Robert](#); [Dozier, Jerry](#); [Eads, Johnny](#); [Elliott, Robert](#); [Franovich, Rani](#); [Gavrilas, Mirela](#); [Harrison, Donnie](#); [Helton, Shana](#); [Howe, Allen](#); [Imboden, Andy](#); [James, Lois](#); [Kemper, William](#); [Khanna, Meena](#); [Klein, Alex](#); [Kobetz, Timothy](#); [Kulesa, Gloria](#); [Lupold, Timothy](#); [Manoly, Kamal](#); [Markley, Michael](#); [McHale, John](#); [McMurtray, Anthony](#); [Mendiola, Anthony](#); [Mitchell, Matthew](#); [Murphy, Martin](#); [Pascarelli, Robert](#); [Pelton, David](#); [Pham, Bo](#); [Raghavan, Rags](#); [Rosenberg, Stacey](#); [Salgado, Nancy](#); [Scott, Michael](#); [Shoop, Undine](#); [Simms, Sophonia](#); [Tate, Travis](#); [Taylor, Robert](#); [Thatcher, Dale](#); [Thorp, John](#); [Wilson, George](#); [Wrona, David](#); [Zimmerman, Jacob](#); [Boger, Bruce](#); [Givvines, Mary](#); [Grobe, Jack](#); [Leeds, Eric](#); [Bahadur, Sher](#); [Blount, Tom](#); [Brown, Frederick](#); [Cheok, Michael](#); [Cunningham, Mark](#); [Evans, Michele](#); [Ficks, Ben](#); [Galloway, Melanie](#); [Glitter, Joseph](#); [Hiland, Patrick](#); [Holian, Brian](#); [Lee, Samson](#); [Lubinski, John](#); [Lund, Louise](#); [McGinty, Tim](#); [Nelson, Robert](#); [Quay, Theodore](#); [Ruland, William](#); [Skeen, David](#)  
**Cc:** [NRR DIRS IOEB Distribution](#)  
**Subject:** FW: PNO-III-11-005, BRAIDWOOD UNIT 2 UNUSUAL EVENT DUE TO LOSS OF ALL CONTROL ROOM ANNUNCIATORS  
**Date:** Thursday, March 24, 2011 3:19:02 PM  
**Attachments:** [PNO-III-11-005.docx](#)

---

Attached is the PNO-III-11-005: BRAIDWOOD UNIT 2 UNUSUAL EVENT DUE TO LOSS OF ALL CONTROL ROOM ANNUNCIATORS.

Thanks,  
Liza Cunningham

---

**From:** Schmidt, Colleen  
**Sent:** Thursday, March 24, 2011 3:16 PM  
**To:** PN\_Distribution  
**Cc:** Duncan, Eric; Benjamin, Jamie; Garmoe, Alex; Cameron, Jamnes  
**Subject:** PNO-III-11-005, BRAIDWOOD UNIT 2 UNUSUAL EVENT DUE TO LOSS OF ALL CONTROL ROOM ANNUNCIATORS

The subject document has been completed and has been submitted to DPC to be declared in ADAMS.

A Word copy of the document is attached and the document has been assigned ADAMS Accession Number ML110830918.

Colleen Schmidt  
Administrative Assistant  
Region III/DRP  
Phone: (630) 829-9636  
Fax: (630) 515-1102

AG/1017

**PRELIMINARY NOTIFICATION- REGION III**

March 24, 2011

**PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE - PNO-III-11-005**

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. Some of the information may not yet be fully verified or evaluated by the Region III staff.

**Facility**

Braidwood Station, Unit 2  
Exelon Generation Company, LLC  
Braceville, IL  
Docket: 50-457  
License: NPF-77

**Licensee Emergency Classification**

Notification of Unusual Event  
 Alert  
 Site Area Emergency  
 General Emergency  
 Not Applicable

**SUBJECT: BRAIDWOOD UNIT 2 UNUSUAL EVENT DUE TO LOSS OF ALL CONTROL ROOM ANNUNCIATORS**

At 10:18 a.m. (CDT) on March 24, 2011, the utility declared an Unusual Event due to the loss of all Unit 2 main control room annunciators. At the time of the event, the utility was performing planned maintenance on the Unit 2 annunciator system. This maintenance activity was not expected to result in the loss of all Unit 2 annunciators. The loss of annunciators occurred at 9:51 a.m. (CDT). The annunciators were restored and the Unusual Event was terminated at 10:47 a.m. (CDT).

There was no impact on any plant equipment and the reactor remained at 100 percent power. The utility implemented increased monitoring of available plant indications throughout the event. The situation posed no threat to public health and safety.

An NRC resident inspector responded immediately to the main control room during the event. The NRC will continue to monitor the utility's actions and will follow-up on the plant's assessment of what caused the loss of annunciators.

The State of Illinois has been informed.

Region III received initial notification of this occurrence by licensee notification to the on-site resident inspector on March 24, 2011. The information presented herein has been discussed with the licensee, and is current as of 1:00 p.m. (CDT).

ADAMS Accession Number ML110830918.

Contacts:	Eric Duncan 630-829-9620 <a href="mailto:Eric.Duncan@nrc.gov">Eric.Duncan@nrc.gov</a>	Jamie Benjamin 815-458-2852 <a href="mailto:Jamie.Benjamin@nrc.gov">Jamie.Benjamin@nrc.gov</a>
-----------	---	--

**From:** [Facilities Bulletin](#)  
**To:** [Facilities Bulletin](#)  
**Subject:** Facilities Bulletin - Security/Safety: X-Ray (Radiography) Imaging of the TWFN Garage  
**Date:** Thursday, March 24, 2011 3:22:00 PM

---

**Facilities Bulletin - Security/Safety - Reminder**

**X-Ray (Radiography) Imaging of the TWFN Garage**

Beginning Friday, March 25, 2011, from 10:00 p.m. and ending Saturday, March 26, 2011, at 4:00 a.m., contractors will be performing x-ray (radiography) imaging of the Two White Flint North (TWFN) P-3 and P-4 garage floors.

During this time, the entire garage in TWFN, P-1 through P-5, will be closed to personnel and vehicle traffic. There will be no access to vehicles parked in the TWFN garage. Employees must move their vehicles to the One White Flint North (OWFN) building garage before 10:00 p.m. on Friday, March 25, 2011. Two of the six elevator cars in the TWFN building will be programmed to operate from the lobby to the 10<sup>th</sup> floor. The other four elevator cars will be shut down. The link between the OWFN and TWFN buildings at the P-1 level will also be closed to personnel traffic.

Thank you for your patience and cooperation.

If you have any questions, please contact David Dawood, 301-415-5459 or [david.dawood@nrc.gov](mailto:david.dawood@nrc.gov).

AG/1018

**From:** Contingency Planning & Management Conference  
**To:** Case, Michael  
**Subject:** Look Who's Attending!  
**Date:** Thursday, March 24, 2011 3:31:00 PM

CPM 2011

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Chief, Business Continuity Office	US Census Bureau
Computer Specialist	DISA
Contingency Analyst	Federal Reserve Bank of Richmond
Director	Franklin County Office of Homeland Security & Justice Programs
Director - Administrative Services	Texas County & District Retirement System
Director, IT	Sterling National
DR/BC Coordinator	Schneider National Inc.
EM/Continuity Program Manager	U.S. Department of the Treasury
Facilities Coordinator	School Employees Retirement System
Internal Audit BCP	IEEE

AG/1019



IT Expert	University of Florida
IT Specialist	EPA
Manager	Scotiabank
Manager Emergency Preparedness	Columbus Regional Airport Authority
Operational Risk Manager/BC Manager	Wells Fargo Dealer Services
Physical Security Specialist	Library of Congress
Project Manager	Southern California Edison
Safety & Health Specialist/Emergency Response Lead	Monsanto
Senior Emergency Preparedness Planner	Virginia Commonwealth University
Sr. BC Analyst	UL
Sr. Emergency Mgmt Specialist	Federal Reserve Board
Sr. Vice President, Human Resources	Pacific Trust Bank
Supervisor Contingency Planning	Federal Reserve Information Technology
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**From:** [Coe, Doug](#)  
**To:** [Barnes, Valerie](#); [Coyne, Kevin](#)  
**Subject:** RE: Next week  
**Date:** Thursday, March 24, 2011 3:33:00 PM

---

No problem Val – just update the Division calendar.

Thanks,

Doug

---

**From:** Barnes, Valerie  
**Sent:** Thursday, March 24, 2011 3:33 PM  
**To:** Coe, Doug; Coyne, Kevin  
**Subject:** Next week

I would like to switch my Friday day off to Thurs of next week, 3/31. I made an error when I did my leave form and should have asked for next Thursday, too, but this would solve that problem. It means I'll be in the office on Friday, April 1 (seems appropriate), before I head off to WGHOFF on Saturday.

AG/1020

**From:** [Clean Technology Leadership Forum](#)  
**To:** [Case, Michael](#)  
**Subject:** CLEAN DEFENSE BRIEFING-Invitation  
**Date:** Thursday, March 24, 2011 3:39:13 PM

---



## Clean Technology Leadership News

Washington

You are invited to **CLEANDEF2: The Clean Defense Briefing**, scheduled on Capitol Hill on May 23, 2011. Registration begins at 1:00 p.m. and the Briefing concludes at 5:00 p.m. Join senior Pentagon officials as they provide you with their briefing on the clean energy, alternative fuel, and energy efficiency programs of the U.S. Department of Defense.

This high-level Briefing will provide you with the latest details on:

- The clean energy, alternative fuel, and energy efficiency programs of the U.S. Navy, U.S. Air Force, U.S. Army, and U.S. Marines
- The clean technology programs of individual military bases throughout the U.S.
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**VADM Bill Burke**

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Don Juhasz



**DLA Energy Resource  
Management Director  
Don Juhasz**

### Featured Participants

Participants



- \* 25x'25
- \* 3M
- \* Advanced Biofuels

AG/1621

your seat, please contact us at: [info@leadershipforum.us](mailto:info@leadershipforum.us).

## How You Can Participate

Space is extremely limited at the May 23 Clean Defense Briefing - we advise you to register **today**. Register for the May 23 event [here](#).

To suggest speakers, or request more information, contact us at: [info@leadershipforum.us](mailto:info@leadershipforum.us).

We look forward to seeing you at the next CLEANDEF in Washington!

Best Regards,

Clean Technology Leadership Summit  
[www.leadershipforum.us](http://www.leadershipforum.us)

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**From:** Jose Ibarra  
**To:** Hudson, Daniel; Beasley, Benjamin; Demoss, Gary; Ott, William; Peters, Sean; Salley, MarkHenry; Kuritzky, Alan  
**Cc:** Coe, Doug; Coyne, Kevin  
**Subject:** RE: ACTION: 2nd Quarter FY2011 OpPlan Update and Performance Report Input - Due 3/30  
**Date:** Thursday, March 24, 2011 3:43:11 PM

---

BCs,

Please be aware of this OpPlan Update that is due next Wednesday. Thanks. Jose

---

**From:** Hudson, Daniel  
**Sent:** Friday, March 11, 2011 11:02 AM  
**To:** Beasley, Benjamin; Demoss, Gary; Ott, William; Peters, Sean; Salley, MarkHenry; Kuritzky, Alan  
**Cc:** Coe, Doug; Coyne, Kevin; Hudson, Daniel; Ibarra, Jose  
**Subject:** ACTION: 2nd Quarter FY2011 OpPlan Update and Performance Report Input - Due 3/30

BCs:

Please update your E and O level milestones on the RES User Need and Operating Plan SharePoint Site and provide the following input for the 2nd Quarter FY2011 (1/1/2011 – 3/31/2011) Performance Report to Jose Ibarra by COB on Wednesday 3/30:

- (1) 1-2 significant accomplishments per Branch, including a description of the regulatory significance and identification of the staff involved.
- (2) NUREGs published.
- (3) Significant meetings/conferences/published papers.
- (4) 1 challenge affecting technical work per Branch (if applicable).

To provide your input, you can either add your information to the attached template, or you can edit the shared file on the DRA SharePoint site at:

<http://portal.nrc.gov/edo/res/dra/Shared%20Documents/Quarterly%20Performance%20Report%20and%20OpPlan/FY%202011/2nd%20Quarter%20Performance%20Report%20input.doc>

Thanks,  
Dan

Daniel W. Hudson  
Technical Assistant  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
Division of Risk Analysis  
Daniel.Hudson@nrc.gov  
301-251-7919

AG/1622

**From:** [Ibarra, Jose](#)  
**To:** [Zabel, Joseph](#)  
**Cc:** [Coe, Doug](#); [Coyne, Kevin](#)  
**Subject:** RES #2010511  
**Date:** Thursday, March 24, 2011 3:53:54 PM

---

Joe,

We have no comments on consolidation of content existing in MD3.7 (NUREG Series Publications) and those portions of MD3.11 (Conference and Conference Proceedings) that deal with the publication of conference proceedings. This response closes out ticket RES # 2010511.

Thanks.  
Jose Ibarra  
DRA Technical Assistant

AG/1023

**From:** GPN Weekly e-News  
**To:** Leeds, Eric  
**Subject:** Price hikes hit governments | Municipal broadband | Bird control  
**Date:** Thursday, March 24, 2011 3:54:40 PM

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March 24, 2011



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### In This Issue

- More price hikes hit public sector
- Municipal broadband spawns mobile government apps galore
- Bird control tips for government agencies
- Troy University's MPA program offers learning options

## News

### **More price hikes hit public sector** *By Michael Keating*

Contech Construction Products and Bridgestone Bandag Tire Solutions have announced price increases for products that local and state governments often buy. The hikes mirror price trends reported in American City & County's Municipal Cost Index.

**Full Story**

### **Municipal broadband spawns mobile government apps galore** *By Mary Rose Roberts*

Municipal broadband networks are supporting a wide variety of mobile government applications that field workers can access with tablets, laptops and smartphones. They create efficiencies and increase the mobile government tools available to public safety, utility and public transportation agencies.

**Full Story**

AG/1024



## **Bird control tips for government agencies**

Governments are tasked with bird control as part of their pest management efforts. Here's some advice from Cameron Riddell for local and state government officials on how and where to start if their community or facility has a bird problem. Riddell is president of Bird Barrier America, Inc., an inventor and manufacturer of bird repellent products.

**Full Story**

## **Troy University's MPA program offers learning options** *By*

*Michael Keating*

Mid-career and upper level managers in governments and nonprofit organizations can achieve an MPA degree at various Troy University locations in Alabama, Georgia, Florida, and Virginia, and through Troy's online delivery system, eCampus. All courses for the MPA degree are available online.

**Full Story**

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**From:** [Facilities Bulletin](#)  
**To:** [Facilities Bulletin](#)  
**Subject:** Facilities Bulletin - Reopening of the Two White Flint North Cafeteria Following Emergency Repairs  
**Date:** Thursday, March 24, 2011 3:56:30 PM

---

**FACILITIES BULLETIN – SAFETY AND SECURITY – REOPENING OF THE TWO WHITE FLINT NORTH CAFETERIA FOLLOWING EMERGENCY REPAIRS**

All repairs to the drainage pipes in the Two White Flint North cafeteria and kitchen area have been completed. The cafeteria will open under its normal operating schedule beginning Friday, March 25, 2011.

Contact: [Gregory.Chicca@nrc.gov](mailto:Gregory.Chicca@nrc.gov) or 301-415-6928

AG/1025

**From:** [Coe, Doug](#)  
**To:** [Valentin, Andrea](#)  
**Cc:** [Coyne, Kevin](#); [Kardaras, Tom](#); [Uhle, Jennifer](#)  
**Subject:** MSNBC FOIA request to 23 NRC mgmt  
**Date:** Thursday, March 24, 2011 3:59:00 PM

---

Andrea,

I was on the inter-office telecon hosted by OIS to discuss solutions to responding to the numerous FOIA requests the agency has been/are/will be getting.

One point of discussion was on the subject FOIA in which Jennifer and Kevin Coyne are named. Kevin is acting for me tomorrow and will be on foreign travel all next week. I imagine Jennifer is similarly booked up.

It was hard to hear everything but I believe I heard that OIS (Margie Janney) could help with this FOIA in particular through OIS's ability to electronically extract emails from your account between two specified dates. You might still need to look through them to identify any proprietary, contract, or other non-releasable information, but you wouldn't have to collect the emails yourself.

Will you be able to provide some additional guidance as to what Jennifer and Kevin need to do (and how OIS can help)?

Thanks,

Doug Coe  
Deputy Director  
Division of Risk Analysis (DRA)  
Office of Nuclear Regulatory Research (RES)  
U.S. Nuclear Regulatory Commission  
Rockville, MD  
301-251-7914  
[doug.coe@nrc.gov](mailto:doug.coe@nrc.gov)

AG/1026

**From:** [American Management Association](#)  
**To:** [Case, Michael](#)  
**Subject:** AMA Webinar: How to Keep Your Virtual Team On-Track & Productive  
**Date:** Thursday, March 24, 2011 4:05:39 PM



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**Date:**  
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**Time:**  
1:00–2:30 p.m. Eastern

**Meeting Number:**  
82021-00003



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AG/1027

**From:** [Correia, Richard](#)  
**To:** [Coe, Doug](#)  
**Subject:** Re: meet next week?  
**Date:** Thursday, March 24, 2011 4:06:05 PM

---

Will do Doug. Thx  
Rich Correia, Director  
Division of Security Policy  
NSIR

---

**From:** Coe, Doug  
**To:** Correia, Richard  
**Sent:** Thu Mar 24 16:02:30 2011  
**Subject:** RE: meet next week?

Rich – if you have made your calendar accessible to Carolyn, she can schedule it for you and find a time that Susan, you, and I could all meet together.

---

**From:** Correia, Richard  
**Sent:** Thursday, March 24, 2011 4:01 PM  
**To:** 'sypicke@sandia.gov'; Coe, Doug  
**Subject:** Re: meet next week?

Susan. Which dates/times will you be available?  
Rich Correia, Director  
Division of Security Policy  
NSIR

---

**From:** Pickering, Susan Y <[sypicke@sandia.gov](mailto:sypicke@sandia.gov)>  
**To:** Correia, Richard; Coe, Doug  
**Sent:** Thu Mar 24 15:48:02 2011  
**Subject:** meet next week?

Greetings,

I will be in DC next week and would like to meet w/ you (individually or a group) to check in, catch up on projects, etc. I know you are very busy now, so if your schedules are too tight, I will catch you next time.

My assistant will contact yours to set up appointments. Hope you are surviving!  
syp

Susan Y. Pickering  
Senior Manager, Nuclear Energy Safety Technologies  
P.O. Box 5800  
Albuquerque, NM 87185-0736  
Phone (505) 284-4800  
Fax (505) 844-0955  
Email: [sypicke@sandia.gov](mailto:sypicke@sandia.gov)

AG/1028

**From:** [Hogan, Rosemary](#)  
**To:** [Roche, Robert](#)  
**Cc:** [Case, Michael](#); [Richards, Stuart](#)  
**Subject:** RE: Spanish translation  
**Date:** Thursday, March 24, 2011 4:06:46 PM

---

Cool!

---

**From:** Roche, Robert  
**Sent:** Thursday, March 24, 2011 3:37 PM  
**To:** Hogan, Rosemary  
**Subject:** FW: Spanish translation

Hi Rosemary,

FYI, I'm providing support in the Spanish translation of the document attached .

Regards,

Robert


---

**From:** Betancourt, Luis  
**Sent:** Thursday, March 24, 2011 3:22 PM  
**To:** Roche, Robert  
**Subject:** FW: Spanish translation

FYI

LUIS BETANCOURT DIGITAL I&C ENGINEER (EIT) RES/DE/DICB   301-251-7409   MS C-2A07M   <a href="mailto:Luis.Betancourt@nrc.gov">Luis.Betancourt@nrc.gov</a>
--

<i>U.S. Nuclear Regulatory Commission</i>
---

 Please consider the environment before printing this e-mail

---

**From:** Couret, Ivonne  
**Sent:** Thursday, March 24, 2011 3:14 PM  
**To:** Betancourt, Luis  
**Cc:** Rivera-Lugo, Richard  
**Subject:** RE: Spanish translation

Thanks

---

**From:** Betancourt, Luis  
**Sent:** Thursday, March 24, 2011 2:51 PM  
**To:** Couret, Ivonne  
**Cc:** Rivera-Lugo, Richard  
**Subject:** RE: Spanish translation

Thanks! We will have something by tomorrow.

LUIS BETANCOURT DIGITAL I&C ENGINEER (EIT) RES/DE/DICB   301-251-7409   MS C-2A07M   <a href="mailto:Luis.Betancourt@nrc.gov">Luis.Betancourt@nrc.gov</a>
--

AG/1029

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---

**From:** Couret, Ivonne  
**Sent:** Thursday, March 24, 2011 2:47 PM  
**To:** Betancourt, Luis  
**Cc:** Rivera-Lugo, Richard  
**Subject:** RE: Spanish translation

That is fine for tomorrow. Remember try to make it simple not difficult it is for the public who have no clue on nuclear. Thanks again, Ivonne

---

**From:** Betancourt, Luis  
**Sent:** Thursday, March 24, 2011 2:46 PM  
**To:** Couret, Ivonne  
**Cc:** Rivera-Lugo, Richard  
**Subject:** RE: Spanish translation

Hi Ivonne,

I'm going through the translation and looking at it will take me more time than I anticipated. I asked Richard Rivera-Lugo, one of the Structural Engineers at RES to help me get a better translation since this is more of his background. I wanted to asked you if we can give you the revised translation tomorrow morning?

Let me know what you think.

Thanks,

LUIS BETANCOURT DIGITAL I&C ENGINEER (EIT)  
RES/DE/DICB | 301-251-7409 | MS C-2A07M | [Luis.Betancourt@nrc.gov](mailto:Luis.Betancourt@nrc.gov)

Please consider the environment before printing this e-mail

---

**From:** Couret, Ivonne  
**Sent:** Thursday, March 24, 2011 1:48 PM  
**To:** Betancourt, Luis  
**Subject:** RE: Spanish translation

Thanks, Ivonne

---

**From:** Betancourt, Luis  
**Sent:** Thursday, March 24, 2011 1:44 PM  
**To:** Couret, Ivonne  
**Subject:** RE: Spanish translation

Ok. I'll send you something by the end of the day.

LUIS BETANCOURT DIGITAL I&C ENGINEER (EIT)  
RES/DE/DICB | 301-251-7409 | MS C-2A07M | [Luis.Betancourt@nrc.gov](mailto:Luis.Betancourt@nrc.gov)



 Please consider the environment before printing this e-mail

---

**From:** Couret, Ivonne  
**Sent:** Thursday, March 24, 2011 1:43 PM  
**To:** Betancourt, Luis  
**Subject:** RE: Spanish translation


Sooner is better than later. If so, mark time with Japan. Ivonne

---

**From:** Betancourt, Luis  
**Sent:** Thursday, March 24, 2011 1:43 PM  
**To:** Couret, Ivonne  
**Cc:** Medina, Veronika  
**Subject:** RE: Spanish translation

Sure! By when do you need it?

LUIS BETANCOURT DIGITAL I&C ENGINEER (EIT) RES/DE/DICB   301-251-7409   MS C-2A07M   <a href="mailto:Luis.Betancourt@nrc.gov">Luis.Betancourt@nrc.gov</a>
 U.S. Nuclear Regulatory Commission

 Please consider the environment before printing this e-mail

---

**From:** Couret, Ivonne  
**Sent:** Thursday, March 24, 2011 1:42 PM  
**To:** Betancourt, Luis  
**Cc:** Medina, Veronika  
**Subject:** FW: Spanish translation

Do you have time to do a quick read of this translation and make tweaks. Veronika has been generous to clean up from the literal translation. We want to make this available to the public. Thanks, Ivonne

---

**From:** Medina, Veronika  
**Sent:** Thursday, March 24, 2011 1:08 PM  
**To:** Couret, Ivonne  
**Subject:** Spanish translation

Ivonne,

Attached please find the last Spanish translation.

Veronika

## Beasley, Benjamin

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 4:11 PM  
**To:** Davis, Chon  
**Subject:** RE: Branch Chief APP Meetings

I am traveling on Wednesday. Can you find a slot for me on Monday?

Ben

---

**From:** Davis, Chon  
**Sent:** Thursday, March 24, 2011 3:51 PM  
**To:** Ott, William; Beasley, Benjamin; Coyne, Kevin  
**Subject:** FW: Branch Chief APP Meetings

Please let me know what time slot you prefer. If you like, I can perform a busy search on your calendar and schedule the meeting when you have available time. Please let me know how you'd like me to handle this.

Thanks!

Chon

Chon Davis  
Management Analyst  
RES/DRA  
C04A08  
301-251-7567

---

**From:** Schofer, Maria  
**Sent:** Thursday, March 24, 2011 11:29 AM  
**To:** Davis, Chon; Littlejohn, Jennene; Shaffer, Sarah; Bowlin, Elizabeth; Hurd, Sapna  
**Cc:** Bamford, Lisa; Goldfeiz, Banu  
**Subject:** Branch Chief APP Meetings

We are planning to start meeting with the branch chiefs next week to review the APP. We have reserved conference room 5C19, and two laptops. We'll make any needed changes and updates during the meeting.

Please coordinate with your branch chiefs to set-aside ½ hour to 1 hour to review their APP. The length of time can vary from branch to branch depending on the number and complexity of projects.

The time slots are:

Monday 1:30 – 4:00  
Tuesday 1:30 – 4:00  
Wednesday 9 -11:30

Please use the file on the MA site to keep track of the times. It is located under FY 2011 Budget Execution Documents.

<http://portal.nrc.gov/edo/res/pmda/FPMB/MA/default.aspx>

Please let us know if you need help scheduling the meetings or completing your APP.

Thank you,

*Maria Schofer*  
Senior Program Analyst  
RES/PMDA/FPMB  
301-251-7689  
Office: C6D26

## Beasley, Benjamin

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 4:16 PM  
**To:** McNamara, Nancy  
**Subject:** RE: Quick Logistics on Wed Governor Meeting.

I sent my GI-199 presentation yesterday. Do you need any other material from me?

Ben

---

**From:** McNamara, Nancy  
**Sent:** Thursday, March 24, 2011 8:57 AM  
**To:** Beasley, Benjamin; Schmidt, Wayne  
**Cc:** Coe, Doug  
**Subject:** Quick Logistics on Wed Governor Meeting.

Ben/Wayne, the meeting with Governor Deval Patrick is set. Here are some quick logistics so you can start your travel arrangements. I'll put a formal itinerary and prep book out on Monday.

The meeting is scheduled for Wednesday, March 30 from 2-3 p.m. The focus is Pilgrim. Topics will be seismic study, fuel pools and NRC activities going forward. We do not expect anything on emergency preparedness which is why we are not including Seabrook and VY in the discussion.

Bill is flying and I'm taking the train. If you can get flights that get you into the airport around 11:30 am that would be good. The Massachusetts SLO will pick you up at the airport between 11:45-12:00. The capitol building is 10 minutes from the airport.

There will be a prep meeting on Tuesday, March 29 from 11:00-12:00 am in the executive conference room. I will provide a bridge for HQs to participate. I'll have the materials for that meeting out on Monday.

Thanks for supporting this initiative.  
Nancy

**From:** Barnes, Valerie (RES)  
**To:** Coe, Doug; Coyne, Kevin; Peters, Sean  
**Subject:** FW: SRM - SECY-11-0003 and SECY-11-0028 (Managing Fatigue)  
**Date:** Thursday, March 24, 2011 4:30:44 PM  
**Attachments:** SRM-11-0003.11-0028.docx

---

The due date for the direct final rule is achievable, given that OGC is already working on it and has a good working draft FRN already. OGC sent out a "courtesy copy," which both Desaulniers and I reviewed, and there aren't any complex or show-stopper technical issues to resolve in the rule text.

I don't know what NRR is doing re: implementation guidance. Perhaps Mike Boggi has contacted DaBin about it or he's not expecting to need our help.

I also don't know what the plan is for responding to public comments.

And I'm not asking either OGC or NRR about their plans.

---

**From:** Benowitz, Howard  
**Sent:** Thursday, March 24, 2011 4:18 PM  
**To:** Shoop, Undine; Helton, Shana  
**Cc:** Desaulniers, David; Barnes, Valerie; Martin, Kamishan; Boggi, Michael; Harris, Paul  
**Subject:** FW: SRM - SECY-11-0003 and SECY-11-0028 (Managing Fatigue)

FYI.

---

**From:** Vincent, Leslie **On Behalf Of** RidsOgcMailCenter Resource (OGC)  
**Sent:** Thursday, March 24, 2011 4:15 PM  
**To:** Itzkowitz, Marvin; Hirsch, Patricia; Jones, Bradley; Mizuno, Geary; Mullins, Charles; Benowitz, Howard; Scott, Catherine; Lemoncelli, Mauri; Cordes, John  
**Subject:** FW: SRM - SECY-11-0003 and SECY-11-0028 (Managing Fatigue)

---

**From:** Lewis, Antoinette (SECV)  
**Sent:** Thursday, March 24, 2011 3:54 PM  
**To:** Vietti-Cook, Annette; Baggett, Steven; Bates, Andrew; Batkin, Joshua; Blake, Kathleen; Bollwerk, Paul; Bozin, Sunny; Bradford, Anna; Brown, Theron; Bubar, Patrice; Bupp, Margaret; Burns, Stephen; Chairman Temp; Clark, Lisa; Coggins, Angela; Cordes, John; Crawford, Carrie; Cutchin, James; Davis, Roger; Fopma, Melody; Franovich, Mike; Gibbs, Catina; Hackett, Edwin; Hart, Ken; Harves, Carolyn; Hawkens, Roy; Hayden, Elizabeth; Henderson, Karen; Herr, Linda; Hipschman, Thomas; Hudson, Sharon; KLS Temp; Kock, Andrea; Lepre, Janet; Loyd, Susan; Mamish, Nader; Marshall, Michael; Mitchell, Reggie; Monninger, John; Moore, Scott; OCA Distribution; OPA Resource; Orders, William; Pace, Patti; Poole, Brooke; Rabideau, Peter; Reddick, Darani; Laufer, Richard; RidsEdoDraftSrmVote Resource; RidsOcaaMailCenter Resource; RidsOcofMailCenter Resource; RidsOgcMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; Baval, Rochelle; Rothschild, Trip; Joosten, Sandy; Savoy, Carmel; Sharkey, Jeffry; Shea, Pamela; Snodderly, Michael; Sosa, Belkys; Speiser, Herald; Svinicki, Kristine; Temp, WCO; Temp, WDM; Thoma, John; Warren, Roberta; Zorn, Jason; Temp, GEA; Apostolakis, George; Tadesse, Rebecca; Butler, Gail; Perry, Jamila; Doane, Margaret; Castleman, Patrick; Montes, David; Dhir, Neha; Adler, James; Jimenez, Patricia; Muessle, Mary; Nieh, Ho; Ostendorff, William; Warnick, Greg; Pearson, Laura; Lui, Christiana; Lisann, Elizabeth; Golder, Jennifer  
**Cc:** Wright, Darlene; Lewis, Antoinette  
**Subject:** SRM - SECY-11-0003 and SECY-11-0028 (Managing Fatigue)

AG/1032

(ML110830971)

In an effort to keep the NRC staff informed of Commission decisions in a timely manner, attached for your information are the Staff Requirements Memoranda (SRMs) signed by the Secretary on March 24, 2011. Please make additional distribution to interested staff members in your office.

If you have any questions, please give me a call on 415-1969.

Publre

March 24, 2011

MEMORANDUM TO: R. W. Borchardt  
Executive Director for Operations

Stephen G. Burns  
General Counsel

FROM: Annette L. Vietti-Cook, Secretary /RA/

SUBJECT: STAFF REQUIREMENTS – SECY-11-0003 – STATUS OF ENFORCEMENT DISCRETION REQUEST AND RULEMAKING ACTIVITIES RELATED TO 10 CFR PART 26, SUBPART I, “MANAGING FATIGUE” AND SECY-11-0028 - OPTIONS FOR IMPLEMENTING AN ALTERNATIVE INTERIM REGULATORY APPROACH TO THE MINIMUM DAYS OFF PROVISIONS OF 10 CFR PART 26, SUBPART I, “MANAGING FATIGUE”

The Staff should address the 10 CFR Part 26, Subpart I implementation issues discussed in SECY-11-0003 and SECY-11-0028 through a combination of accelerated limited scope rulemaking and enforcement discretion as described below.

The staff should conduct an accelerated limited scope rulemaking that can be issued as final within four months. A proposed rule should be issued for publication within five weeks. Three days prior to submission to the *Federal Register*, the proposed rule and final rule should be provided to the Commission for information. To minimize the overall duration of this rulemaking:

- a. The scope of the rulemaking should be limited solely to providing an alternative to the current requirement for minimum days off for operations (i.e., non-outage) in Part 26, Subpart I with the new proposed requirement for a 54-hour per week average over a rolling period of up to six weeks for operations (i.e., non-outage).
- b. The staff should promulgate rule language consistent with the interim approach described by the staff at the February 8, 2011, Commission briefing, allowing an essentially like-for-like alternative to the current non-outage minimum days off requirements.
- c. The petitions for rulemaking concerning Part 26 and other changes being considered to the rule should be handled in a separate rulemaking effort.
- d. For this rulemaking, all rulemaking authority is delegated to the Executive Director for Operations. This delegation includes the proposed rule and final rule, unless substantive changes are made to the alternative that was presented at the February 8, 2011, Commission briefing. If substantive changes are made, the final rule should be provided to the Commission for approval.

- e. The lead office for this rulemaking should be the Office of General Counsel (OGC), because the staff has done sufficient technical work to establish an appropriate technical basis for the new proposed requirement.
- f. The offices assisting OGC in this effort should provide assistance on a priority basis.
- g. Because the staff has done sufficient work to establish an appropriate technical basis for the new proposed requirement, OGC should rely on existing technical work and regulatory analysis. Any additional internal technical reviews should be eliminated or minimized.
- h. Because of the public interaction held to date on the development of the proposed alternative requirement, the public comment period should be kept to 30 days with no extension of the public comment period.
- i. Specific comments should be sought on whether the alternative provides comparable assurance of fatigue management. Comments outside the limited scope of the rule change should not be considered or should be addressed under the separate rulemaking on Part 26.

In parallel with this accelerated limited scope rulemaking, the staff should prepare updated regulatory guidance on an expedited basis for issuance in four months.

(OGC /EDO)

(SECY Suspense: 4 months)

In the interim, the Commission has approved the staff's recommended SECY-11-0028, Option 4, to implement enforcement discretion for licensees failing to meet the requirements of 10 CFR 26.205(d)(3) and to publish the draft notice in the *Federal Register* as immediately effective.

The following changes should be made to the Federal Register Notice (SECY-11-0028, Enclosure).

- a. page 3, line 13, revise to read: "...through § 26.205(d)(6); ~~while~~ and apply the work hour limits and break requirements..."
- b. page 3, line 18, revise to read: "...regulations ~~that~~ which govern fatigue..."
- c. page 4, line 5, revise to read: "... along with ~~the need for~~ needing an alternative..."
- d. page 4, line 8, add a comma after "requirements"
- e. page 4, last line, add "the" before NEI.
- f. page 5, line 6, revise to read: "...number of days off ~~that~~ an individual..."
- g. page 5, line 9, revise to read: "...approach provides ~~for greater~~ the simplicity and flexibility ~~desired by the industry.~~"
- h. page 5, line 11, add "the" before NEI.



- i. page 5, line 14, revise to read: "...replacing the ~~current~~ MDO requirements..."
- j. page 6, line 2, revise to read: "...having only one ~~day-off~~ in every nine ~~days off~~ or..."
- k. page 6, line 16, delete the extra period at the end of the line.
- l. page 8, last line, add a comma after "date"
- m. page 9, line 8, add a comma after "Typically"
- n. page 10, line 1, revise to read: "...violations ~~that which~~ occurred..."

cc: Chairman Jaczko  
Commissioner Svinicki  
Commissioner Apostolakis  
Commissioner Magwood  
Commissioner Ostendorff  
CFO  
OCA  
OPA  
Office Directors, Regions, ACRS, ASLBP (via E-Mail)  
PDR

## Kauffman, John

---

**From:** Bensi, Michelle  
**Sent:** Thursday, March 24, 2011 4:36 PM  
**To:** Kauffman, John  
**Subject:** RE: Joint Branch Meeting Next Week

John,  
Is there anything I need to do?  
Thanks,  
Shelby

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 4:13 PM  
**To:** Bensi, Michelle  
**Cc:** Kauffman, John  
**Subject:** RE: Joint Branch Meeting Next Week

Check with John K; he is coordinating the meeting.

Ben

---

**From:** Bensi, Michelle  
**Sent:** Thursday, March 24, 2011 3:47 PM  
**To:** Beasley, Benjamin  
**Subject:** RE: Joint Branch Meeting Next Week

I am sorry, but what do I need to prepare for this meeting?  
Thanks,  
Shelby

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 8:35 AM  
**To:** Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Kauffman, John; Killian, Lauren; Lane, John; Perkins, Richard; Reisifard, Mehdi; Salomon, Arthur; Smith, April; Wegner, Mary  
**Subject:** Joint Branch Meeting Next Week

Please remember that we have the joint branch meeting with IOEB next Thursday and that you have material to prepare for that meeting.

Ben

**Murphy, Andrew**

---

**From:** O'Donnell, Edward  
**Sent:** Thursday, March 24, 2011 4:39 PM  
**To:** Murphy, Andrew  
**Subject:** Info in regard to your query

**Materials, Waste and International Security Branch (NSIR)**

**Chief:** Sandra Wastler

Plans, coordinates, and manages the overall development and implementation of policies, and oversight programs for security at independent spent fuel storage installations, decommissioned power reactors, other licensed radioactive material, waste processing, storage and disposal facilities. Conducts physical protection technical and regulatory reviews in support of regulatory programs, rulemaking and licensing for the use, storage, and disposal of nuclear and radioactive materials. Coordinates international activities among appropriate agency offices and other federal agencies related to the adequacy of radioactive source security, physical protection, export licensing reviews, including coordination with the International Atomic Energy Agency (IAEA).

**From:** Flory, Shirley  
**To:** RES Distribution; Cruz, Holly; Cullison, David; Frampton, Julie; Hudson, Nathanael; Peters, Sean; Richards, Stuart; Rini, Brett; Santiago, Patricia  
**Subject:** RES PLAN OF THE DAY: FRIDAY, MARCH 25, 2011  
**Date:** Thursday, March 24, 2011 4:40:23 PM  
**Attachments:** POD 03 25 11.doc

---

AG/1035

**From:** [Bailey, Marissa](#)  
**To:** [Dean, Vivian](#)  
**Cc:** [Beasley, Benjamin](#); [Coe, Doug](#); [Kinneman, John](#)  
**Subject:** RE: Release date for April Smith  
**Date:** Thursday, March 24, 2011 4:41:04 PM

---

That's fine.

---

**From:** Dean, Vivian  
**Sent:** Thursday, March 24, 2011 4:39 PM  
**To:** Bailey, Marissa  
**Subject:** FW: Release date for April Smith

Marissa,

The email below is a reply from April's currently BC Ben Beasley in reference to a release date. Please let me know if you agree with April 23.

Thanks. Vivian

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 4:07 PM  
**To:** Williams, Michelle; Oklesson, Edward  
**Cc:** Coe, Doug; Smith, April  
**Subject:** RE: Release date for April Smith

Michelle,

In order for April to wrap up one project and transition other projects to other Branch members, I need April to stay in OEGIB until April 23. After April 23, I will need April to support an occasional meeting with OIS on our NUREG-0933 upgrade project. The support should only be a few meetings of a couple hours each, for a maximum of about 10 hours during May and June.

Regards,  
Ben

---

**From:** Williams, Michelle  
**Sent:** Tuesday, March 22, 2011 11:25 AM  
**To:** Oklesson, Edward; Beasley, Benjamin  
**Subject:** FW: Release date for April Smith

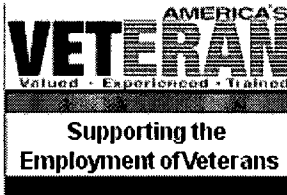
Hi Ben,

NMSS has requested to pick-up April Smith to transition before leaving for the Graduate Fellowship. Please let me know if you would agree to the proposed release date or would like to suggest an alternative date.

Thanks,

AG/1036

Michelle Williams  
Human Resources Specialist  
Office of Human Resources  
US Nuclear Regulatory Commission  
Email: Michelle.Williams@nrc.gov  
Phone: 301-251-7469  
Fax: 301-251-7427



---

**From:** Dean, Vivian  
**Sent:** Tuesday, March 22, 2011 11:21 AM  
**To:** Williams, Michelle  
**Subject:** Release date for April Smith

Hi Michelle,

April Smith has accepted the GFP-PRA position in NMSS. The office is requesting April 9<sup>th</sup> as a release date from RES. This will allow NMSS time to transition her in to the new position before she leaves to attend graduate school in the fall. This is a lateral reassignment for Ms. Smith. Please let me know if RES agrees to the date.

Thank you.

Vivian

**From:** [Abu-Eid, Bobby](#)  
**To:** [Lewis, Robert](#); [Brach, Bill](#); [Case, Michael](#); [Camper, Larry](#)  
**Cc:** [Rodriguez, Sandra](#); [Fleming, Barbara](#); [Holahan, Vincent](#); [Cool, Donald](#); [Cook, John](#); [Rini, Brett](#); [Camper, Larry](#); [Abu-Eid, Bobby](#); [Felsner, Harry](#); [Williams, Shawn](#); [Virgilio, Martin](#); [Rini, Brett](#); [Williams, Shawn](#)  
**Subject:** RE: Priority Green Ticket 20110199: "Options to Seek Comments from National Stakeholders on IAEA Standards"  
**Date:** Thursday, March 24, 2011 4:44:28 PM

---

IAEA SSCs Chairs/Coordinators:

Larry Camper and I were assigned an EDO Green Ticket #G20110199 task to "Coordinate with other Offices and IAEA SSCs to develop a draft option paper to be discussed with the DEDR and SSCs on how the NRC will meet its obligations on the new SSC Terms of Reference (TOR) regarding Seeking Comments on IAEA Standards from U.S. National Stakeholders. Therefore, we do appreciate your ideas and thoughts on approaches, methods, resources needed, and options to implement such obligation. We have also requested NRC Offices to provide their inputs on this issues. ***Please send your (SSC) input to Bobby Eid ([bobby.abu-eid@nrc.gov](mailto:bobby.abu-eid@nrc.gov)) by May 7, 2011.***

Your inputs, as well as NRC's Offices inputs, will be considered and incorporated, as practical, in our draft paper on "***Options to Seek Comments from National Stakeholders on IAEA Standards.***" Your cooperation and prompt action is appreciated.

Bobby

---

**From:** Fleming, Barbara  
**Sent:** Thursday, March 24, 2011 3:14 PM  
**To:** Abu-Eid, Bobby; Holahan, Vincent; Cool, Donald  
**Cc:** Rodriguez, Sandra  
**Subject:** Priority Green Ticket 20110199  
**Importance:** High

Gentlemen:

Please see the attached priority green ticket, as well as the FSME ticket.

Barbara

**Barbara F. Fleming**  
FOIA/Records Management Specialist  
U.S. Nuclear Regulatory Commission  
FSME/PBPA/OB  
301-415-7292  
[Barbara.Fleming@nrc.gov](mailto:Barbara.Fleming@nrc.gov)

AG/1037

**From:** Leeds, Eric  
**To:** McGinty, Tim; Blount, Tom  
**Cc:** Regan, Christopher; Fredrichs, Thomas; Simmons, Anneliese; Boger, Bruce  
**Subject:** FYI: With appreciation  
**Date:** Thursday, March 24, 2011 4:45:00 PM

---

High praise for Tom and Anneliese and OI. What a wonderful note to receive from an Office Director. Thank you both for your tremendous dedication, commitment and professionalism.

OUTSTANDING!

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

---

**From:** McCrary, Cheryl  
**Sent:** Thursday, March 24, 2011 3:08 PM  
**To:** Leeds, Eric  
**Cc:** Grobe, Jack; Krupnick, David  
**Subject:** With appreciation

Eric ~

Per our discussion....

I would like express my sincere appreciation for the outstanding support and technical expertise provided by Tom Fredrichs and Anneliese Simmons, NRR, to the Office of Investigations during its investigation of a decommissioning fund allegation involving Exelon Corporate.

During the conduct of this investigation, the licensee has been quite vocal regarding their disagreement with the fact that NRC is investigating the decommissioning fund issue. Even with these overt challenges by the licensee, your staff have continued to maintain professionalism and focus on providing exceptional and undeterred expertise to the OI investigation.

In furtherance of our shared NRC mission, I believe that having these experts supporting the OI investigation will ensure that the NRC obtains the most thorough and accurate information on which to base any regulatory decisions.

Please feel free to share this email as you deem appropriate.

With thanks and regards,  
Cheryl

*Cheryl L. McCrary*  
Director

AG/1038



Office of Investigations  
U.S. Nuclear Regulatory Commission  
301-415-2373 office  
301-415-2370 fax

**From:** [West, Stephanie](#)  
**To:** [RES DE CIB; Flory, Shirley; Veltri, Debra](#)  
**Cc:** [Case, Michael; Richards, Stuart; Rivera-Lugo, Richard](#)  
**Subject:** Delegation of Authority - Wally Norris acting for Al Csontos 3/25/11  
**Date:** Thursday, March 24, 2011 4:47:24 PM

---

If you have any questions, please contact Wally Norris @ 301-251-7650.

Stephanie West  
Administrative Assistant, RES/DE  
US Nuclear Regulatory Commission  
ph: 301-251-7619  
fax: 301-251-7425  
[stephanie.west@nrc.gov](mailto:stephanie.west@nrc.gov)

AG/1039

**From:** [Rivera-Lugo, Richard](#)  
**To:** [Csontos, Aladar](#); [Gavrilas, Mirela](#); [Boyce, Tom \(RES\)](#); [Sydnor, Russell](#); [Koshy, Thomas](#); [Hogan, Rosemary](#)  
**Cc:** [Case, Michael](#); [Richards, Stuart](#); [Norris, Wallace](#); [West, Stephanie](#)  
**Subject:** ACTION: 2nd Quarter Op Plan Update - Due 3/30  
**Date:** Thursday, March 24, 2011 4:55:13 PM  
**Importance:** High

---

BCs,

Please update your **E** and **O** level milestones on the [RES User Need and Operating Plan SharePoint Site](#) for the 2<sup>nd</sup> and 3<sup>rd</sup> Quarter (January 1<sup>st</sup> – June 30<sup>th</sup>, 2011) FY2011, and provide the following input for the 2<sup>nd</sup> Quarter Performance Report **by COB on Wednesday, March 30<sup>th</sup>**:

- (1) NUREGs published
- (2) Significant meetings/seminars/conferences/published papers
- (3) Any challenges affecting technical work per branch (if applicable)

Should you have any questions please contact me at your earliest convenience.

Richie

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



Please consider the Environment before printing this e-mail.

AG/1040

**From:** [Leeds, Eric](#)  
**To:** [Boska, John](#); [Brenner, Eliot](#)  
**Cc:** [Salgado, Nancy](#); [Nelson, Robert](#)  
**Subject:** RE: Material on Indian Point to be provided to New York State  
**Date:** Thursday, March 24, 2011 4:57:00 PM

---

As per our discussion, I believe the information is now releasable. Any vulnerabilities have been remedied. Please go forward and release the info to the NY officials.

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

---

**From:** Boska, John  
**Sent:** Thursday, March 24, 2011 2:03 PM  
**To:** Leeds, Eric; Brenner, Eliot  
**Cc:** Salgado, Nancy; Nelson, Robert  
**Subject:** RE: Material on Indian Point to be provided to New York State

It is part of the IPEEE, after 9/11 the decision was made that all IPEEE information would be non-public, since it reveals vulnerabilities in the plants. This information may have been public in the 1990's, but now it is non-public.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: john.boska@nrc.gov

---

**From:** Leeds, Eric  
**Sent:** Thursday, March 24, 2011 2:01 PM  
**To:** Boska, John; Brenner, Eliot  
**Cc:** Salgado, Nancy; Nelson, Robert  
**Subject:** RE: Material on Indian Point to be provided to New York State

John – Why didn't we release this information previously?

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

---

**From:** Boska, John  
**Sent:** Thursday, March 24, 2011 1:49 PM  
**To:** Leeds, Eric; Brenner, Eliot  
**Cc:** Salgado, Nancy; Nelson, Robert  
**Subject:** Material on Indian Point to be provided to New York State  
**Importance:** High

AG/1041

Eric and Eliot,

I was asked to have you review any material we plan to send to New York State. One of the items we promised to New York State was an example of changes made at the plants during the IPEEE seismic review in the 1990's. This information will be provided to Nancy McNamara, the SLO in Region I for forwarding to New York State.

The following information will be provided (it is in ADAMS, but in non-public documents):

1. For Indian Point 2, the hold-down bolts for the surge tank in the component cooling water system were replaced by higher tensile strength bolts.
2. For Indian Point 3, a seismically qualified control panel for the carbon dioxide system in the emergency diesel room was installed to prevent spurious actuation during seismic events (which could eventually result in diesel failure).

Please concur with sending this material to New York State. Thanks.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: john.boska@nrc.gov

**Kauffman, John**

---

**From:** Salomon, Arthur  
**Sent:** Thursday, March 24, 2011 4:58 PM  
**To:** Kauffman, John  
**Subject:** weekly  
**Attachments:** OEGIB weekly 03-25-2011.doc

attached  
Arthur D. Salomon  
Research Statistician  
RES/DRA/OEGIB  
301-251-7491  
[arthur.salomon@nrc.gov](mailto:arthur.salomon@nrc.gov)

## OEGIB WEEKLY ACTIVITIES/STATUS

03/21/2011 – 03/25/2011

**NAME:** Arthur Salomon

**Date:** 03/25/2011

### ACTIVITIES THIS WEEK

- Incremental funding request for N6884, IROD project with ISL approved
- Incremental funding requests for INL projects are being revised per PMDA
- CCF Workshop
- Oconee LAR: provided comments/questions to NRR for resolution prior to preparation of SAR; request to NRR project manager for additional material from licensee
- Updated project spending plans

**UNBUDGETED WORK** (Brief description of work you did that was “unbudgeted (e.g., special assignment/task beyond your normal project activities)

**ACTIVITIES PLANNED FOR NEXT WEEK** (Brief description of what is coming up next week (e.g, significant meetings, deliverables))\*

**NEAR-TERM MILESTONES** – Near term (next 4 weeks) milestones/deliverables

---

\* Identify any items that you think should be brought up at the weekly OERA staff meeting or the weekly RES staff meeting

**From:** [Cohen, Miriam](#)  
**To:** [Leeds, Eric](#)  
**Subject:** RE: Item of discussion  
**Date:** Thursday, March 24, 2011 4:58:11 PM

---

Ok.

---

**From:** Leeds, Eric  
**Sent:** Thursday, March 24, 2011 4:39 PM  
**To:** Cohen, Miriam  
**Subject:** Item of discussion

Miriam –

You planted a seed about Mary. Let's try to talk before the next succession planning meeting. I appreciate your insights. Lunch is always good!

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

AG/1043



**From:** [Brach, Bill](#)  
**To:** [Case, Michael](#)  
**Subject:** Out of Office: Your thoughts ...  
**Date:** Thursday, March 24, 2011 5:01:40 PM

---

I will be out of the office March 23 - 29. I will return to the office on March 30.

AG / 1044

**From:** [Sheron, Brian](#)  
**To:** [Coe, Doug](#); [Uhle, Jennifer](#)  
**Cc:** [Barnes, Valerie](#); [Coyne, Kevin](#)  
**Subject:** RE: RES concur on OE letter to ACRS  
**Date:** Thursday, March 24, 2011 5:07:15 PM

---

OK.

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 4:58 PM  
**To:** Sheron, Brian; Uhle, Jennifer  
**Cc:** Barnes, Valerie; Coyne, Kevin  
**Subject:** RES concur on OE letter to ACRS

Brian/Jennifer,  
OE has asked RES to concur on a letter responding to ACRS. The relevant sentence for RES in their response is

The Office of Nuclear Regulatory Research (RES) has indicated that it will be prepared to accommodate your request [to have an opportunity to review the safety culture traits validation study] in early fall 2011. At that time, RES will have had an opportunity to complete its planned analysis of the information used in the validation study.

We can accommodate this request. It is already part of our work under the OE User Need Request for safety culture.

Any objection?

Doug

AG/1045

**From:** Valentin, Andrea  
**To:** Coe, Doug  
**Subject:** Out of Office: IT Purchase Requests  
**Date:** Thursday, March 24, 2011 5:10:54 PM

---

I will be out of the office on Friday, March 25, 2011. If you need assistance please contact Tom Kardaras at (301) 251-7667.

AG/1046

**From:** [Coe, Doug](#)  
**To:** [Barnes, Valerie](#); [Coyne, Kevin](#); [Peters, Sean](#)  
**Subject:** RE: Hope Creek assessment letter- Update  
**Date:** Thursday, March 24, 2011 5:12:00 PM

---

OK thanks

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

From: Barnes, Valerie  
Sent: Thursday, March 24, 2011 4:59 PM  
To: Coe, Doug; Coyne, Kevin; Peters, Sean  
Subject: FW: Hope Creek assessment letter- Update

Doug,

I won't be in the office to concur. However, both Amy and I have reviewed the report (several times) and are fine with it. When it comes into RES, we need someone to do the concurrence. I'm not sure to whom it will go.

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

From: Keefe, Molly  
Sent: Thursday, March 24, 2011 4:55 PM  
To: Keefe, Molly; Jimenez, Jose; Sieracki, Diane; Barnes, Valerie; D'Agostino, Amy; Martin, Kamishan  
Subject: RE: Hope Creek assessment letter- Update

\*\*chug-a-chug-a-chug-a-choo-choo\*\*

The document has left the building- literally! After receiving OE's concurrence in record time (you'd think they have nothing to do down there...:) ) the Hope Creek letter is on its way to Church street. Perhaps RES will be just as speedy! OE has set the bar pretty high!

Have a great weekend everyone- :)

Molly J. Keefe  
Human Factors Specialist  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
(301) 415-5717  
Molly.Keefe@nrc.gov

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

From: Keefe, Molly  
Sent: Wednesday, March 23, 2011 5:10 PM  
To: Jimenez, Jose; Sieracki, Diane; Barnes, Valerie; D'Agostino, Amy; Martin, Kamishan  
Subject: RE: Hope Creek assessment letter

awwwwwww shucks!!!! ;)

---

From: Jimenez, Jose  
Sent: Wednesday, March 23, 2011 4:17 PM  
To: Sieracki, Diane; Keefe, Molly; Barnes, Valerie; D'Agostino, Amy; Martin, Kamishan  
Subject: RE: Hope Creek assessment letter

I second that!

From: Sieracki, Diane  
Sent: Wednesday, March 23, 2011 4:15 PM

AG/1047

To: Keefe, Molly; Jimenez, Jose; Barnes, Valerie; D'Agostino, Amy; Martin, Kamishan  
Subject: RE: Hope Creek assessment letter

Yeah!! Great job, oh great team leader!! ☺

From: Keefe, Molly  
Sent: Wednesday, March 23, 2011 3:33 PM  
To: Jimenez, Jose; Barnes, Valerie; Sieracki, Diane; D'Agostino, Amy; Martin, Kamishan  
Subject: Hope Creek assessment letter

Hello Hope Creek team-  
Hope you are all doing well! ☺

Just wanted to let you know that the Hope Creek letter has finally LEFT NRR! Due to unforeseen foreign events with spent fuel pools and broken reactors, my management has been a little bit tied up. However, TODAY, after much anticipation, the Hope Creek assessment letter was concurred on by my DDD and made it's way to OE where hopefully either Roy or Andy (who is out until next week) will be able to move it along.

Molly J. Keefe  
Human Factors Specialist  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
(301) 415-5717  
Molly.Keefe@nrc.gov

**From:** [Barnes, Valerie](#)  
**To:** [Coe, Doug](#)  
**Subject:** RE: IT Purchase Requests  
**Date:** Thursday, March 24, 2011 5:12:37 PM

---

Bravo!! Thanks!!

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 5:11 PM  
**To:** Barnes, Valerie; Peters, Sean  
**Subject:** FW: IT Purchase Requests

Approved!

---

**From:** Kardaras, Tom  
**Sent:** Thursday, March 24, 2011 5:07 PM  
**To:** Coe, Doug; Valentin, Andrea  
**Subject:** RE: IT Purchase Requests

Doug,

Brian has indicated that we can proceed with the subject purchase.  
I will get things going on it first thing tomorrow.

Regards,  
Tom Kardaras, Deputy Director (Acting)  
Program Management, Policy Development and Analysis Staff  
Office of Nuclear Regulatory Research  
(o) 301-251-7667

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 2:30 PM  
**To:** Valentin, Andrea; Kardaras, Tom  
**Subject:** FW: IT Purchase Requests

Andrea/Tom,  
When I last made this request/justification, the CR was expiring on March 18. It was resolved with the current CR expiring Apr 8. It was delayed due to the Mar 18 CR. Although this software purchase cannot yet be declared "mission-essential" its lack is slowing down our work for OE. We could be in a situation of future incremental CRs. My request now is that if funds are available under the current CR for IT purchases that are not mission-essential but necessary to address user needs, could we approve the purchase?

**Justification:**

This software will allow us to do the statistical analysis needed to support OE with the technical basis for how they will eventually decide to implement the Commission's Safety Culture Policy Statement. We have a user need from OE for this work and the ACRS has asked OE for further technical justification that only our work will be able to provide. We just brought onboard a new employee who has been assigned this work. Therefore, this software package directly supports our technical work for OE (i.e. it is not for business efficiency or improvement). As an aside, such requests are rare for DRA.

AG/1048

Doug

---

**From:** Valentin, Andrea  
**Sent:** Monday, March 07, 2011 4:18 PM  
**To:** Case, Michael; Richards, Stuart; Coe, Doug; Coyne, Kevin; Gibson, Kathy; Scott, Michael  
**Cc:** Uhle, Jennifer; Sheron, Brian  
**Subject:** IT Purchase Requests

The same scrutiny that we have been discussing for travel and training applies to the use of the IT bank card and requests for software. We have 4 Division-approved pending bankcard purchase requests (the details are provided below). We also have 3 other requests that are still pending Division approval (those items are not shown below).

- 1.) DRA (Doug Coe has approved / OIS approval is pending) – IBM PASW 18 Base, Advanced Statistics, and regression for the standardized Safety Culture approach, 1 copy, \$2847.00. (Identified as mission critical)
- 2.) DE (Mike Case has approved / OIS approval is pending) – MATLIB Optimization Toolbox, 1 copy, \$1000.00
- 3.) DE (Mike Case has approved / OIS approval is pending) – MATLIB, 2 copies, \$2100.00 each copy (total \$4200.00)

We need some context on item 2 above, and the two copies requested in item 3 to know if they are considered mission critical.

Also, we will be incorporating the following language into the e-mail that the IT staff normally sends to Division Directors when they need to request approval for items that staff have requested to purchase under the IT/Admin bankcard.

***“Due to the ongoing CR and the possibility of a Government shutdown in the near future, IT/Admin bankcard purchases will not be processed unless the item is identified by the requesting Division as a mission-essential item. Otherwise, that subject item will be purchased at a later time once the CR is resolved. Finally, any item that is identified as mission-essential will also require a justification as to why it is considered mission essential so that can be reviewed by the RES front office before the item is actually purchased.”***

Thanks,

Andrea Valentin, Acting Director  
Program Management, Policy Development and Analysis Staff  
Office of Nuclear Regulatory Research  
301-251-7497

**From:** [Kardaras, Tom](#)  
**To:** [Coe, Doug](#)  
**Cc:** [Valentin, Andrea](#)  
**Subject:** RE: IT Purchase Requests  
**Date:** Thursday, March 24, 2011 5:13:53 PM

---

No problem Doug...Thanks for your patience.

Regards,  
Tom Kardaras, Deputy Director (Acting)  
Program Management, Policy Development and Analysis Staff  
Office of Nuclear Regulatory Research  
(o) 301-251-7667

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 5:11 PM  
**To:** Kardaras, Tom  
**Cc:** Valentin, Andrea  
**Subject:** RE: IT Purchase Requests

Thanks so much Tom. Much appreciated!

---

**From:** Kardaras, Tom  
**Sent:** Thursday, March 24, 2011 5:07 PM  
**To:** Coe, Doug; Valentin, Andrea  
**Subject:** RE: IT Purchase Requests

Doug,

Brian has indicated that we can proceed with the subject purchase.  
I will get things going on it first thing tomorrow.

Regards,  
Tom Kardaras, Deputy Director (Acting)  
Program Management, Policy Development and Analysis Staff  
Office of Nuclear Regulatory Research  
(o) 301-251-7667

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 2:30 PM  
**To:** Valentin, Andrea; Kardaras, Tom  
**Subject:** FW: IT Purchase Requests

Andrea/Tom,  
When I last made this request/justification, the CR was expiring on March 18. It was resolved with the current CR expiring Apr 8. It was delayed due to the Mar 18 CR. Although this software purchase cannot yet be declared "mission-essential" its lack is slowing down our work for OE. We could be in a situation of future incremental CRs. My request now is that if funds are available under the current CR for IT purchases that are not mission-essential but necessary to address user needs, could we approve the purchase?

AG/1049



Justification:

This software will allow us to do the statistical analysis needed to support OE with the technical basis for how they will eventually decide to implement the Commission's Safety Culture Policy Statement. We have a user need from OE for this work and the ACRS has asked OE for further technical justification that only our work will be able to provide. We just brought onboard a new employee who has been assigned this work. Therefore, this software package directly supports our technical work for OE (i.e. it is not for business efficiency or improvement). As an aside, such requests are rare for DRA.

Doug

---

**From:** Valentin, Andrea  
**Sent:** Monday, March 07, 2011 4:18 PM  
**To:** Case, Michael; Richards, Stuart; Coe, Doug; Coyne, Kevin; Gibson, Kathy; Scott, Michael  
**Cc:** Uhle, Jennifer; Sheron, Brian  
**Subject:** IT Purchase Requests

The same scrutiny that we have been discussing for travel and training applies to the use of the IT bank card and requests for software. We have 4 Division-approved pending bankcard purchase requests (the details are provided below). We also have 3 other requests that are still pending Division approval (those items are not shown below).

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- 2.) DE (Mike Case has approved / OIS approval is pending) – MATLAB Optimization Toolbox, 1 copy, \$1000.00
- 3.) DE (Mike Case has approved / OIS approval is pending) – MATLAB, 2 copies, \$2100.00 each copy (total \$4200.00)

We need some context on item 2 above, and the two copies requested in item 3 to know if they are considered mission critical.

Also, we will be incorporating the following language into the e-mail that the IT staff normally sends to Division Directors when they need to request approval for items that staff have requested to purchase under the IT/Admin bankcard.

***“Due to the ongoing CR and the possibility of a Government shutdown in the near future, IT/Admin bankcard purchases will not be processed unless the item is identified by the requesting Division as a mission-essential item. Otherwise, that subject item will be purchased at a later time once the CR is resolved. Finally, any item that is identified as mission-essential will also require a justification as to why it is considered mission essential so that can be reviewed by the RES front office before the item is actually purchased.”***

Thanks,

Andrea Valentin, Acting Director  
Program Management, Policy Development and Analysis Staff  
Office of Nuclear Regulatory Research  
301-251-7497

**From:** ashok.thadani@verizon.net  
**To:** Case, Michael  
**Cc:** Rini, Brett; Boyce, Tom (RES); Carpenter, Robert; Richards, Stuart  
**Subject:** Re: RE: DS414  
**Date:** Thursday, March 24, 2011 5:15:49 PM  
**Attachments:** Gap%20Analysis%20DS414%20Rgmt%207%20-%20DID%20%28Final%20NRO-NRR%20-%20DSRA%20comments%29[1] with Thadani mark up.doc  
Gap%20Analysis%20DS414%20Rgmt%2021%20-%20severe%20accidents%20%28Final%20NRO-NRR%29[1] with Thadani mark up.doc

---

I hope you get the two attachments with my quick reaction on the two topics. I will be back on March 30 and will be in town for two days before I go on travel for two weeks.

Mar 24, 2011 02:04:08 PM, Michael.Case@nrc.gov wrote:

Hi Ashok. Thanks for that. We'll see if we can work some of these into the system. I do have a couple of DS414 related activities that I was hoping you could help me with. The first is the gap analysis. We took so "interesting" areas from DS 414 and asked our staff to describe how we would "meet" those requirements in our regulatory system. Those gap analysis are attached. You are welcome to comment on them all but I particularly need you to comment and embellish to gap analyses on Severe Accidents and Defense in Depth.

A second item that you can help on is the issue of "practically eliminate" (which of course you commented on). Can you take the affirmative side of the debate and write a couple of paragraphs on how we meet the definition in our system of regulation (the current DS414 definition of practically eliminate is [1] "The possibility of certain conditions occurring is considered to have been practically eliminated if it is physically impossible for the conditions to occur or if the conditions can be considered with a high degree of confidence to be extremely unlikely to arise." I think your writeup will help to sharpen our focus on this issue.

As you suggested, maybe we can get together when you return (although I go back on mid shift for the Japan event in early April).

Best regards,

Mike

AG / 1050

---

**From:** ashok [mailto:ashok.thadani@verizon.net]  
**Sent:** Thursday, March 17, 2011 10:34 AM  
**To:** Holahan, Gary; Case, Michael  
**Subject:** DS414

I have gone through revision 27e and have 8 comments/suggestions for further changes and or discussion. My comments are attached. I will be travelling until March 30 and perhaps we can meet then. In addition, given what is happening in Japan, it may be prudent to wait until IAEA and other communities have better understanding of the situation and its' implications before publication of final NSR-1. I expect the countries considering building new nuclear power plants will take time to understand the impact of the Japanese experience.

Ashok

\_\_\_\_\_ Information from ESET NOD32 Antivirus, version of virus  
signature database 5963 (20110317) \_\_\_\_\_

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

---

Brett,

Attached please find NRO's input to the gap analysis of DS414.

Thanks,

Cindy

---

**From:** Case, Michael  
**Sent:** Thursday, February 03, 2011 7:39 AM  
**To:** Rosales-Cooper, Cindy; Quinones, Lauren; Rodriguez, Veronica  
**Cc:** Johnson, Michael; Holahan, Gary; Ader, Charles; Akstulewicz, Frank; Dube, Donald; Miranda, Samuel; Brach, Bill; Cool, Donald; Schwartzman, Jennifer; Abu-Eid, Bobby; Cook, John; Williams, Shawn; Sanfilippo, Nathan; Lombard, Mark; Rini, Brett; Richards, Stuart  
**Subject:** DS 414 Gap Analysis

As you know, DS 414, "Safety of Nuclear Power Plants: Design," has been working its way through the IAEA process for several years. It is on target to be sent to the CSS this Spring. In anticipation of that and given some concerns that we have with the document, we would like to do a targeted gap analysis on specific areas of the draft guide.

I've attached the most recent version of DS 414 (draft 27e from January 2011) for your review. We have already performed a gap analysis on Section 1 as an example that is attached. We would like your offices to do a gap analysis in the following areas of the document:

- Defence in Depth Principle Requirement 7 Sections 2.11, 2.12, 2.13;
- Safety Security Interface Requirement 8
- DBA and Severe Accident Considerations Requirements 20 and 21
- Safety Classification Requirements 23 and 24
- ECCS Requirements 51, 52, 53

The gap analysis template is available at [ML092290859](#). In addition to the typical gap analysis process of identifying where the NRC may not meet DS414, we would also like you to explain how we meet the underlying intent of the safety standard. We will use the resultant analyses to chart a path forward on DS414 prior to the CSS meeting in May.

Please send your inputs to myself and Brett Rini by February 28.

Thanks,

Mike

---

Cindy/Theresa,

I am planning to send the gap analysis to RES today. I can CC you and specify that this is the input from NRR and NRO, let me know.

Thanks,

Lauren

---

**From:** Laur, Steven

**Sent:** Friday, February 18, 2011 10:04 AM

**To:** Quinones, Lauren

**Cc:** Collins, Timothy; Clark, Theresa; Cunningham, Mark; Ruland, William

**Subject:** RE: IAEA DS 414 gap analysis DRAFTS - DSS and DRA

Lauren:

Attached are MS Word files with our gap analyses for the assigned areas of IAEA document DS 414.

All of the attached include both NRO and NRR perspectives, except for the one on Requirement 8 involving safety-security interface (I believe NRO was not assigned that one).

This completes NRR/DSS and NRR/DRA actions on Yellow Ticket Y020110026 (TAC ME5430).

Please close the Yellow Ticket and let me know that it has been closed so I can inform my management.

Steven A. Laur

NRR Division of Risk Assessment

OWFN 10-C15

(301) 415-2889

steven.laur@nrc.gov

---

Cindy,

In response to YT-2011-0017, DSRA has completed **all** necessary **IAEA DS414 gap analyses**. Those in our technical areas are:

- Defense in Depth Principle (Sections 2.11-2.13; Requirement 7)
- DBA (Requirement 20)
- Severe Accident Considerations (Requirement 21)
- Safety Classification – Reliability (Requirement 24)
- RHR (Requirement 51)
- ECCS (Requirement 52)
- Heat Transfer to Ultimate Heat Sink (Requirement 53)

**For Requirements 20, 24, 51, 52, and 53**, the attached NRR gap analyses (on which we collaborated with NRR) already incorporate our comments so we have **no additional input**.

**For Requirements 7 and 21, Word files are attached showing our revisions to what NRR submitted.** Please include these revised versions of Requirements 7 and 21 in your response to RES, indicating that additional NRO/DSRA comments have been incorporated.

**This completes DSRA's input on YT-2011-0017.** Sorry for the delay. Let me know if you have any questions. Thanks!

---

**From:** Clark, Theresa

**Sent:** Wednesday, February 23, 2011 5:25 PM

**To:** Rosales-Cooper, Cindy

Cc: Ader, Charles; Lombard, Mark

Subject: RE: ACTION: YT-2011-0017 - DS 414 Gap Analysis---Front Office LEAD - (w/ input from DNRL, DSRA, DE, DCIP, DSER, ARP)

Cindy,

In response to YT-2011-0017, DSRA has completed **all but one** of the necessary **IAEA DS414 gap analyses**. Those in our technical areas are:

- Defense in Depth Principle (Sections 2.11-2.13; Requirement 7)
- DBA (Requirement 20)
- Severe Accident Considerations (Requirement 21)
- Safety Classification – Reliability (Requirement 24)
- RHR (Requirement 51)
- ECCS (Requirement 52)
- Heat Transfer to Ultimate Heat Sink (Requirement 53)

**For Requirements 20, 24, 51, 52, and 53**, the attached NRR gap analyses (on which we collaborated with NRR) already incorporate our comments so we have **no additional input**.

**For Requirement 7, a Word file is attached showing our revision to what NRR submitted.** Please include this revised version of Requirement 7 in your response to RES, indicating that additional NRO/DSRA comments have been incorporated.

**For Requirement 21**, Charlie is still reviewing it and **we will have comments in addition to what NRR submitted**. I will get those to you as soon as possible—probably early tomorrow. I apologize for the delay; this is one of the most complex gaps.

Let me know if you have any questions. I will close our part of the YT as soon as I send you the last one. Thanks!

--  
**Theresa Valentine Clark**

Technical Assistant

Division of Safety Systems and Risk Assessment

U.S. NRC Office of New Reactors

T-10F10 | 301-415-4048

[Theresa.Clark@nrc.gov](mailto:Theresa.Clark@nrc.gov)

---

**From:** RidsNroMailCenter Resource

**Sent:** Thursday, February 03, 2011 10:18 AM

**To:** Greene, LaTosha; Penny, Melissa; Green, Thomas; Montgomery, Shandeth; Griggs, Alicia; RobinsonII, Richard

**Cc:** Snyder, Amy; Erwin, Kenneth; Lauron, Carolyn; Rivera-Varona, Aida; Shams, Mohamed; Clark, Theresa; Araguas, Christian; Berry, Lee; Correa, Yessie

**Subject:** ACTION: YT-2011-0017 - DS 414 Gap Analysis---Front Office LEAD - (w/ input from DNRL, DSRA, DE, DCIP, DSER, ARP)

**Importance:** High

**ACTION**

**YT-2011-0017** – Request for review and response – DS 414 Gap Analysis

**Assigned to:** Johnson, FO (w/ input from DNRL, DSRA, DE, DCIP, DSER, and ARP)

Divisions named above to provide input to Cindy Rosales-Cooper by **February 23, 2011**.

**Action:** Offices are requested to review and respond to specified areas as stated below in M. Case e-mail. The gap analysis template is available at [ML092290859](#). Please see e-mail below for detailed guidance. Provide response to Mike Case and Brett Rini by Feb. 28/2011.



**Office Due Date:** February 28,2011

*Electronic Distribution Only*

**Thank you,**

**NRO Correspondence Team**

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**From:** Case, Michael

**Sent:** Thursday, February 03, 2011 7:39 AM

**To:** Rosales-Cooper, Cindy; Quinones, Lauren; Rodriguez, Veronica

**Cc:** Johnson, Michael; Holahan, Gary; Ader, Charles; Akstulewicz, Frank; Dube, Donald; Miranda, Samuel; Brach, Bill; Cool, Donald; Schwartzman, Jennifer; Abu-Eid, Boby; Cook, John; Williams, Shawn; Sanfilippo, Nathan; Lombard, Mark; Rini, Brett; Richards, Stuart

**Subject:** DS 414 Gap Analysis

As you know, DS 414, "Safety of Nuclear Power Plants: Design," has been working its way through the IAEA process for several years. It is on target to be sent to the CSS this Spring. In anticipation of that and given some concerns that we have with the document, we would like to do a targeted gap analysis on specific areas of the draft guide.

I've attached the most recent version of DS 414 (draft 27e from January 2011) for your review. We have already performed a gap analysis on Section 1 as an example that is attached. We would like your offices to do a gap analysis in the following areas of the document:

- Defence in Depth Principle Requirement 7 Sections 2.11, 2.12, 2.13;
- Safety Security Interface Requirement 8
- DBA and Severe Accident Considerations Requirements 20 and 21
- Safety Classification Requirements 23 and 24
- ECCS Requirements 51, 52, 53

The gap analysis template is available at [ML092290859](#). In addition to the typical gap analysis process of identifying where the NRC may not meet DS414, we would also like you to explain how we meet the underlying intent of the safety standard. We will use the resultant analyses to chart a path forward on DS414 prior to the CSS meeting in May.

Please send your inputs to myself and Brett Rini by February 28.

Thanks,

Mike

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Lauren:

Attached are MS Word files with our gap analyses for the assigned areas of IAEA document DS 414.

All of the attached include both NRO and NRR perspectives, except for the one on Requirement 8 involving safety-security interface (I believe NRO was not assigned that one).

This completes NRR/DSS and NRR/DRA actions on Yellow Ticket Y020110026 (TAC ME5430).

Please close the Yellow Ticket and let me know that it has been closed so I can inform my management.

Steven A. Laur

NRR Division of Risk Assessment

OWFN 10-C15

(301) 415-2889

[steven.laur@nrc.gov](mailto:steven.laur@nrc.gov)

Generally, I believe a better discussion of DID is in INSAG-12. The intent of DID philosophy is to maintain independence of the barriers to limit releases. DS414 is a little strong in language on independence but I don't think there is any substantive issue here. Does the staff have any concerns with the language on diversity?

**XX CSS  
Agenda Item X.X  
IAEA Safety Standards Gap Analysis**

**1. IAEA Document Number//Title:**

- DS 414: Safety of Nuclear Power Plant Design  
Sections 2.11, 2.12, 2.13: The concept of defence in depth  
Requirement 7: Application of defence in depth

"The design shall incorporate defence in depth concept. The levels of defence shall be independent as far as practicable."

**2. Are there NRC regulations and/or guidance addressing this topic? List References:**

- Appendix A to 10 CFR Part 50, "General Design Criteria for Nuclear Power Plants"
- 10 CFR 50.48, "Fire Protection," subsection (c) "National Fire Protection Association (NFPA) Standard NFPA 805"
- Appendix R to 10 CFR Part 50, "Fire Protection Program for Nuclear Power Facilities Operating Prior to January 1, 1979"
- 10 CFR 50.69, "Risk-informed categorization and treatment of structures, systems and components for nuclear power reactors"
- 10 CFR 70.64 Requirements for new facilities or new processes at existing facilities
- 10 CFR 73.54, Protection of digital computer and communications systems and networks
- 10 CFR 73.55, "Requirements for physical protection of licensed activities in nuclear power reactors against radiological sabotage," subsection (b) "General performance objective and requirements"
- Appendix C to 10 CFR Part 73, "Licensee Safeguards Contingency Plans"
- 10 CFR 100.1, "Reactor site criteria, purpose"
- WASH-1250, "The Safety of Nuclear Power Reactors (Light Water-Cooled) and Related Facilities," July 1973
- Policy on Safety Goals for the Operations of Nuclear Power Plants (51 FR 30028, August 21, 1986)
- Policy Statement on Use of Probabilistic Risk Assessment Methods in Nuclear Regulatory Activities (60 FR 42622, August 16, 1995)
- Policy Statement on the Regulation of Advanced Reactors; Final Policy Statement (73 FR 60612, October 14, 2008)

- Regulatory Guide 1.174, "An Approach for Using Probabilistic Risk Assessment in Risk Informed Decisions on Plant-Specific Changes to the Licensing Basis"
- Regulatory Guide 1.183, "Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors"
- Regulatory Guide 1.200, "An Approach for Determining the Technical Adequacy of Probabilistic Risk Assessment Results for Risk-Informed Activities"
- Regulatory Guide 1.201, "Guidelines for Categorizing Structures, Systems, and Components in Nuclear Power Plants According to their Safety Significance"
- Regulatory Guide 1.206, "Combined License Application for Nuclear Power Plants (LWR Edition)"
- NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants," Chapter 19.2, "Review of Risk Information Used to Support Permanent Plant-Specific Changes to the Licensing Basis: General Guidance"
- NUREG-1449, "Shutdown and Low-Power Operation at Commercial Nuclear Power Plants in the United States," September 1993
- Generic Letter 88-17, "Loss of Decay Heat Removal," October 17, 1988

**3. Are there other Federal Agency documents/positions that address this topic?**

**List References:**

- N/A

**4. What are the key differences which could pose issues when the IAEA document is compared to the NRC or other Federal Agencies? For key differences, has a CSS comment been created to close that gap? If not, explain why.**

- NRC requirements require conservatism in design, construction, testing, and operation and maintenance of nuclear power plants. A defense-in-depth approach has been mandated in order to prevent accidents from happening and to mitigate their consequences. The NRC defense-in-depth philosophy matches the concept presented in DS 414 section 2.11. There is no gap.
- DS 414 section 2.12 describes five levels of defense-in-depth. The first three levels correspond very well with the "three levels of safety" set forth in WASH-1250 section 2.1. The fourth level is to have a confinement function to limit radioactive releases, which is met by NRC requirements for having a containment structure. The fifth level is the emergency planning function, which is also a requirement for reactors licensed by NRC. There is no gap.
- Section 2.13 states that a relevant aspect of the implementation of defense-in-depth is the provision in the design of a series of physical barriers, as well as a combination of active, passive and inherently safe features contributing to their effectiveness in confining radioactive material at specified locations. NRC regulations, including the General Design Criteria, implement this aspect of defense-in-depth. There is no gap.
- Section 4.9 – NRC requirements provide several levels of defense aimed at preventing harmful effects on people or environment and for ensuring appropriate protection and mitigation if prevention fails. There is no gap.
- Section 4.10 – This requirement is that all levels of defense be kept available at all times; any relaxations must be justified for specific operational modes. NRC

allows unavailability of some aspects of defense-in-depth for predetermined periods of time and controls these as "allowed outage times" in the technical specifications for each plant. There are no requirements for maintaining all levels of defense-in-depth during shutdown operations, although guidance has been provided in generic communications and associated NUREG report. This is a gap for shutdown operations, in that the intent is met only through voluntary initiatives.

- Section 4.11 provides six requirements for incorporating defense-in-depth into the plant design. NRC requirements are congruent. There is no gap.
- Section 4.12 says that the design should prevent, as far as practicable, (1) challenges to the integrity of physical barriers; (2) failure of one or more barriers; (3) failure of a barrier as a consequence of the failure of another barrier; (4) the possibility of harmful consequences of human errors during operation and maintenance. NRC regulations do not specify that the fission product barriers be independent and guidance implements these-these aspects of defense-in-depth as a philosophy. Further, The International Atomic Energy Agency publication INSAG-10, "Defense in Depth in Nuclear Safety," (issued 1996), describes the implementation of defense-in-depth and illustrates how its various elements interrelate. INSAG-10 implements the defense-in-depth philosophy consistent with 10 CFR Part 50 of the NRC's regulations. INSAG-10 also does not specify the independence of fission product barriers. There is no a potential gap.
- Section 4.13 states that the first or second level of defense should be capable of preventing any likely failure or deviation from escalation to accident conditions. The first three NRC levels of safety (as set forth in WASH-1250) match the corresponding DS 414 requirements, and have been embodied into NRC regulations. There is no gap.

##### **5. How does NRC meet the underlying intent of the safety standard?**

The defense-in-depth philosophy has been and continues to be an underlying motivation for many of the NRC regulations. NRC meets the underlying intent of DS 414 with respect to defense-in-depth.

General reaction: The gap analysis is good background information but we need to explicitly recognize that DS414 applies to new designs. SECY-90-016 and SECY-93-087 are clear that the systems relied on to deal with severe accidents should be able to perform their function in that environment and thus is consistent with DS414. The severe accident discussion should include some discussion of efforts to maintain corium in vessel and should that not be successful, capability should be provided to maintain containment integrity and thus minimize the likelihood of large releases. I continue to think we are glossing over the fundamental concern with the way "practically eliminate" is defined. We have always maintained that severe accidents should be analysed realistically and it would be very difficult to make the case that we consider scenarios with very low probabilities at HIGH confidence level. For example high magnitude seismic events have very large uncertainty and we would be hard pressed to make the case that we considered the magnitude of an earthquake that has VERY low probability with HIGH confidence. I think it is better to get rid of that language. I recognize that it would be harder, given the recent Japanese event.

**XX CSS  
Agenda Item X.X  
IAEA Safety Standards Gap Analysis**

**1. IAEA Document Number//Title:**

- DS 414: Safety of Nuclear Power Plant Design  
Requirement 21: Design extension conditions

"A set of design extension conditions shall be derived from engineering, deterministic and probabilistic considerations for the purpose of further improving the safety of the plant by enhancing the plant capabilities to withstand, without exceeding acceptable radiological consequences, accidents either more severe than design basis accidents or involving additional failures. These conditions shall be used to identify the additional accident scenarios to be addressed in the design and to plan practicable provisions for the prevention and mitigation of such accidents."

**2. Are there NRC regulations and/or guidance addressing this topic? List References:**

- 10 CFR 50.34, "Contents of applications; technical information"
- 10 CFR 50.36, "Technical specifications"
- 10 CFR 50.44, "Combustible gas control for nuclear power reactors"
- 10 CFR 50.49, "Environmental qualification of electric equipment important to safety for nuclear power plants"
- 10 CFR 50.62, "Requirements for reduction of risk from anticipated transients without scram (ATWS) events for light-water-cooled nuclear power plants"
- 10 CFR 50.63, "Loss of all alternating current power"
- 10 CFR 50.65, "Requirements for monitoring the effectiveness of maintenance at nuclear power plants"
- 10 CFR 50.109, "Backfitting"
- Policy Statement on Severe Reactor Accidents Regarding Future Designs and Existing Plants (50 FR 32138, August 8, 1985)

- Policy Statement on Safety Goals for the Operation of Nuclear Power Plants (51 FR 30028, August 21, 1986)
- Final Policy Statement on Technical Specifications Improvement for Nuclear Power Reactors' (58 FR 39132, July 22, 1993)
- Policy Statement on Use of Probabilistic Risk Assessment Methods in Nuclear Regulatory Activities (60 FR 42622, August 16, 1995)
- NUREG-0800, "Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants," Chapter 19, "Severe Accidents"
- Generic Letter 88-20, "Individual Plant Examination for Severe Accident Vulnerabilities" (11/23/1988)
- Generic Letter 88-20 Supplement 2, "Accident Management Strategies for Consideration in the Individual Plant Examination Process" (4/4/1990)
- Generic Letter 88-20 Supplement 3, "Completion of Containment Performance Improvement Program and Forwarding of Insights for Use in the IPE for SAV" (7/6/1990)
- Generic Letter 88-20 Supplement 4, "Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities" (6/28/1991)
- NUREG-1335, "Individual Plant Examination: Submittal Guidance"
- NUREG-1407, "Procedural and Submittal Guidance for the Individual Plant Examination of External Events (IPEEE) for Severe Accident Vulnerabilities"
- 10 CFR 52.47, "Contents for applications; technical information"
- 10 CFR 52.79, "Contents of applications; technical information in final safety analysis report"
- 10 CFR 52 Appendix A through D, Section VIII, "Processes for changes and departures"
- RG 1.206, "Combined License Applications for Nuclear Power Plants (LWR Edition)," Chapter 19
- SECY-90-016, "Evolutionary Light Water Reactor (LWR) Certification Issues and Their Relationship to Current Regulatory Requirements" (1/12/90) and associated SRM (6/26/90) SECY-93-087, "Policy, Technical, and Licensing issues Pertaining to Evolutionary and Advanced Light-Water Reactor (ALWR) Designs," (4/2/93) and associated SRM (7/21/93)
- NUREG/BR-0058, "Regulatory Analysis Guidelines of the U.S. Nuclear Regulatory Commission"
- NUREG-1555, "Environmental Reviews for Nuclear Power Plants," Supp 1
- NEI-05-01, "Severe Accident Mitigation Alternative (SAMA)," (as endorsed by NRC staff in LR-ISG-2000-03)

**3. Are there other Federal Agency documents/positions that address this topic?**

**List References:**

- National Environmental Policy Act, Section 102.(c)(iii)

**4. What are the key differences which could pose issues when the IAEA document is compared to the NRC or other Federal Agencies? For key differences, has a CSS comment been created to close that gap? If not, explain why.**

- DS 414 section 5.28 requires an analysis of "design extension conditions" to provide assurance that the plant is able to prevent and/or mitigate, as far as



reasonably practicable, accident conditions not considered as design basis accidents. For currently operating reactors, the individual plant examinations for severe accident vulnerabilities met this requirement. The resultant low frequencies of core damage and large early release demonstrate this requirement has been met. For reactors licensed under 10 CFR Part 52, a PRA is required as part of the license submittal. There is no gap.

- Section 5.29 states that the “design extension conditions” must be used to define the design basis for safety features and for the design of all other items important to safety that are necessary to prevent these conditions from arising, or if they do arise to control them and to mitigate their consequences. For currently operating reactors, this has been done consistent with the Backfit Rule requirements. For example, the ATWS and SBO rules were developed as a result of risk information regarding beyond design basis accidents. 10 CFR 50.36(c)(2)(ii)(D) requires that a technical specification limiting condition for operation of a nuclear reactor be established for each structure, system, or component which operating experience or probabilistic risk assessment has shown to be significant to public health and safety. For new reactors, NEPA requires an assessment of severe accident mitigation alternatives. For new reactors licensed under Part 52, the Environmental Report for design certification and Combined License application contain cost-benefit evaluations of severe accident mitigation design alternatives (SAMDA) to address residual risk. Possible gap for operating reactors, as severe accidents are not used to define the design basis of safety systems, although the intent of this requirement has been met as “design extension conditions” important to safety have been identified. For new reactors, no gap.
- Section 5.30 requires measures to mitigate beyond design basis accidents to be independent, to the extent practicable, of the measures used in more frequent accidents. NRC has no such requirements in general. (The systems installed to mitigate ATWS were separate from the installed safety systems, but that was a special case.) NRC does allow licensees to credit non safety systems to mitigate severe accidents; these are often independent of the safety systems, but the safety systems may be credited as well. This is a gap.
- Section 5.30 also requires these measures to be capable of performing in appropriate environmental conditions. NRC requires both safety and non-safety electrical equipment to be environmentally qualified. The non-safety electric components are those whose failure under postulated environmental conditions could prevent satisfactory accomplishment of specified safety functions. However, NRC has no regulations that require environmental qualification of severe accident mitigating equipment. This is a gap for operating reactors. For new reactors licensed under Part 52, SECY-90-016 states that severe accident mitigation features must be designed to provide reasonable assurance that they will operate in the severe accident environment for which they are intended and over the time span for which they are needed. For new reactors, no gap.
- Section 5.30 also requires these measures to be reliable commensurate with their intended function. The “maintenance rule” (10 CFR 50.65) requires the balancing of reliability and availability for SSCs in its scope. The scope includes safety and non-safety equipment. The latter are those that are relied upon to mitigate accidents or transients or are used in plant emergency operating procedures, whose failure could prevent safety-related structures, systems, and components from fulfilling their safety-related function; or whose failure could cause a reactor scram or actuation of a safety-related system. In practice, SSCs

that are important in the PRA are included in the scope of a given plant's maintenance rule program. There is no gap.

- Section 5.31 requires the containment and its safety features to be able to cope with extreme scenarios that involve, among other things, melting of the reactor core. The IPE and IPEEE studies demonstrated that U.S. reactors meet this requirement. Realistic evaluations of containment ultimate strength indicated that containments have a great deal of margin over the design basis parameters. There is no gap.
- Section 5.32 requires that design extension conditions that could lead to significant radioactive release are “practically eliminated,” and where not practically eliminated, only protective measures that are of limited scope in terms of area and time are necessary for the protection of the public, and sufficient time is available to implement these measures. The IPE and IPEEE studies demonstrated that plant-specific core damage and large early release frequencies are sufficiently low and commensurate with the Commission’s safety goal policy statement. The regulations require licensees to have emergency plans and the NRC assesses the effectiveness of these plans through periodic exercises. In the SRM on SECY-90-016, the Commission set a goal of less than  $10^{-6}$  /yr for large radiological release frequency for evolutionary/advanced light-water reactors. Additionally, the Environmental Report for design certification and Combined License application contain cost-benefit evaluations of severe accident mitigation design alternatives to address residual risk. Together, these provide the equivalent of the “practical elimination” of significant radiological release. There is no gap.
- [Section 5.33 has been deleted.]
- Section 5.34 requires that consequential events resulting from postulated initiating events be considered in the analysis of the original event (e.g., a flood following an earthquake). NRC regulations require that consequential events be taken account in the design of the plant. If the design does not address the consequential event, then the accident analysis must include it. The PRA models developed for the IPE consider consequential events depending upon the conditional probability of the consequence given the postulated initiating event. There is no gap.

##### **5. How does NRC meet the underlying intent of the safety standard?**

The NRC requirements meet the majority of the requirements in this section directly; i.e., there is no gap for those requirements. In three cases, there is a gap between NRC requirements and the DS 414 requirement. First, reactors licensed under Part 50 are not required to use severe accident insights in designing the plant. These reactors were licensed at a time when design basis accidents were considered to bound credible accidents. The intent of DS 414 is met because NRC requires Part 52 reactors to use PRA results to inform the design. Second, NRC has no requirement that systems used to mitigate severe accidents be independent from those that mitigate design basis accidents. **The requirement in DS 414 should be deleted.** Third, NRC regulations do not require environmental qualification of SSCs used to mitigate severe accidents. However, the risk assessments of severe accidents only credit SSCs that are expected to be available given the environmental conditions they will encounter [this may be an implicit assumption]. Therefore, the intent of DS 414 is met for this requirement.

**From:** [Ronaldo H. Szilard](mailto:Ronaldo.H.Szilard)  
**To:** [dchapin@npr.com](mailto:dchapin@npr.com); [diamond@bnl.gov](mailto:diamond@bnl.gov); [dmodeen@epri.com](mailto:dmodeen@epri.com); [Eugene Grecheck@doe.com](mailto:Eugene.Grecheck@doe.com); [Case, Michael; ted.marston@gmail.com; todreas@mit.edu; tom.miller@nuclear.energy.gov; yshack@gmail.com](mailto:Case, Michael; ted.marston@gmail.com; todreas@mit.edu; tom.miller@nuclear.energy.gov; yshack@gmail.com)  
**Cc:** [Richard Reidste@nuclear.energy.gov](mailto:Richard.Reidste@nuclear.energy.gov); [Rebecca Smith-Kevern@nuclear.energy.gov](mailto:Rebecca.Smith-Kevern@nuclear.energy.gov); [JohnF.Keliv@nuclear.energy.gov](mailto:JohnF.Keliv@nuclear.energy.gov); [Peter Lyons@Nuclear.Energy.gov](mailto:Peter.Lyons@Nuclear.Energy.gov); [jgaertner@epri.com](mailto:jgaertner@epri.com); [Richard Reidste@nuclear.energy.gov; Rebecca.Smith-Kevern@nuclear.energy.gov; JohnF.Keliv@nuclear.energy.gov; Peter.Lyons@Nuclear.Energy.gov; jgaertner@epri.com; Carpenter, Gene; williamsdjr@ornl.gov; Cathy.Barnard@inl.gov; Peta.Planchon@inl.gov; busbytt@ornl.gov; Bruce.Hallbert@inl.gov; Hongbin.Zhang@inl.gov; Robert.Youngblodt@inl.gov; George.Griffith@inl.gov; rossetrm@ornl.gov; Jack.Lance@inl.gov; aliyot@id.doe.gov; David.A.HENDERSON; Ronald.C.Johansen; Daren.K.Jensen; Keith.A.Lockie; leonard.bond@epri.com](mailto:Carpenter, Gene; williamsdjr@ornl.gov; Cathy.Barnard@inl.gov; Peta.Planchon@inl.gov; busbytt@ornl.gov; Bruce.Hallbert@inl.gov; Hongbin.Zhang@inl.gov; Robert.Youngblodt@inl.gov; George.Griffith@inl.gov; rossetrm@ornl.gov; Jack.Lance@inl.gov; aliyot@id.doe.gov; David.A.HENDERSON; Ronald.C.Johansen; Daren.K.Jensen; Keith.A.Lockie; leonard.bond@epri.com)  
**Subject:** Steering Committee Review of the LWRS Program, April 5-6, 2011  
**Date:** Thursday, March 24, 2011 7:25:37 PM  
**Attachments:** [Steering Committee Agenda 5.1.docx](#)  
[LWR Sustainability Mtg 4-5&6-11 Committee Charge 5.0.docx](#)

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From: Ronaldo Szilard, Director, TIO LWRS Program  
To: Members of SC, and meeting participants  
Subject: Data Packages for Supporting the Steering Committee Review of the LWRS Program, April 5-6, 2011

Over the last couple weeks we have all experienced extraordinary circumstances in the nuclear industry community with respect to the events in the Japanese Fukushima reactors following the earthquake and tsunami of March 11. Many members of the LWRS Program, DOE, and LWRS steering committee have been involved in activities to assist and assess the Japanese efforts to stabilize the situation. Although this situation remains critical and fluid, we continue to support normal operations of the LWRS Program, and at this time, we will proceed forward with our planned Steering Committee Review on April 5 and 6.

On March 2, you have received background information in support to the LWRS Program:

- 1) The DOE-NE R&D Roadmap
- 2) Roadmap Objective 1 Implementation Plan
- 3) Draft LWRS 10-year Program Plan (FY 2011-2020) and Appendix

This transmittal contains all the information in support to the meeting on April 5-6. The Data Packages as described below are available for your review:

- 1) Data Booklets  
The Data Booklet for each of the LWRS R&D Pathways contains programmatic data describing the organization and details of scope, schedule, and budgets for the work packages in the pathway. The booklet is organized consistent with the Work Break Down Structure of the Program, Pathway, Control Accounts, and Work Packages.
- 2) Matrix Booklet  
The Matrix Booklet contains a separate spreadsheet for the TIO and each pathway. Each spreadsheet summarizes selected information (such as selection criteria, performers of work, budget, and funding for each work package. It serves as a 1-page, 2-dimensional summary of the information in the pathway data booklet.
- 3) Presentation Booklet  
This booklet contains the presentations for the TIO, the Constellation Project, and each pathway. The presentations flow from top level DOE R&D objectives to the plans, status, technical results, and path forward for each work package.
- 4) The LWRS-LTO Joint Plan  
This booklet contains the DOE/TIO-EPRI plans for coordinated R&D to support safe, economical longterm operation of LWRS.

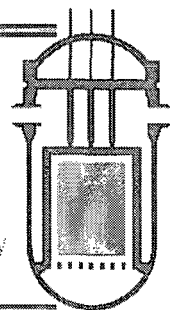
The electronic copies of these documents are or will be available on the access controlled portion of the LWRS website. Members of the steering committee will receive an email fro Michaelene Elnyre with instructions for logon.

The information is also in the process of being sent to you by Fed-Ex as printed paper copies (if you requested paper) and electronic copies on a CD. The Data Booklets and Matrix Booklets have been sent. We expect to send the remaining material on Monday, 3/28/11.

Thank you all. I am looking forward to seeing you on April 5.  
Sincerely,  
Ronaldo Szilard

# Light Water Reactor Sustainability R&D Program Technical Integration Office

**LWRS**  
Light Water Reactor Sustainability



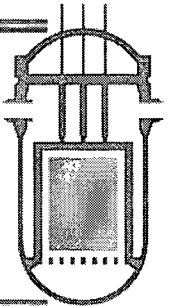
## LWRS TIO Meeting of the LWRS Steering Committee

INL, L'Enfant Plaza North, Suite 6000A, Washington, D.C.

April 5, 2011

Time	Subject	Speaker
8:00-8:10am	Welcome / Introduction of Participants	Rich Reister & Ronaldo Szilard
8:10-8:20am	NE-7 Meeting Expectations	John Kelly
8:20-8:30am	Steering Committee Meeting Expectations	Neil Todreas
8:30-9:30am	Presentation by LWRS-TIO, including Response to Steering Committee Recommendations (June 2009 Meeting)	Ronaldo Szilard & Don Williams
9:30-10:00am	NRC Overview of LB60 Program and Interactions with LWRS	Gene Carpenter
10:00-10:30am	EPRI Overview of LTO Program and Interactions with LWRS	John Gaertner
10:30-10:45am	Break	
10:45-12:15	Presentation on Nuclear Materials Aging and Degradation Technical Pathway	Jeremy Busby & Tom Rosseel
12:15-12:30pm	Working Lunch	Jeremy Busby & Tom Rosseel
12:30-1:45pm	Nuclear Materials Aging and Degradation Technical Pathway presentation (continues)	
1:45-2:15pm	Steering Committee questions and discussion of Materials Pathway presentation	Neil Todreas
2:15-3:00pm	Constellation Pilot Project Status	Jack Lance & Ron Johansen
3:00-3:15pm	Steering Committee questions and discussion of Constellation Pilot Project	Neil Todreas
3:15-3:30pm	Break	
3:30-5:15pm	Presentation on Advanced LWR Nuclear Fuel Development Technical Pathway	George Griffith
5:15-5:40pm	Steering Committee questions and discussion of Advanced LWR Nuclear Fuel Development Pathway presentation	Neil Todreas
5:40pm	Meeting adjourns	

# Light Water Reactor Sustainability R&D Program Technical Integration Office



## LWRS TIO Meeting of the LWRS Steering Committee (continued)

INL, L'Enfant Plaza North, Suite 6000A, Washington, D.C.

April 6, 2011

Time	Subject	Speaker
8:00-10:00am	Presentation on Advanced Instrumentation, Information and Control Systems Technologies Technical Pathway	Bruce Hallbert & Leonard Bond
10:00-10:30am	Steering Committee questions and discussion of Advanced Instrumentation, Information and Control Systems Technologies Technical Pathway presentation	Neil Todreas
10:30-10:45am	Break	
10:45-12:45pm	Presentation on Risk-Informed Safety Margin Characterization (RISMC) Technical Pathway	Bob Youngblood
12:45-1:00pm	Working Lunch	
1:00-1:30pm	Steering Committee questions and discussion of RISMC Technical Pathway presentation	Neil Todreas
1:30-2:30pm	Presentation on Economics and Efficiency Improvement Technical Pathway	Hongbin Zhang
2:30-3:00pm	Steering Committee questions and discussion of Economics and Efficiency Improvement Technical Pathway	Neil Todreas
3:00--3:15pm	Break	
3:15--4:30pm	Steering Committee Caucus	Neil Todreas
4:30-5:00pm	Steering Committee Report Out and Closing Remarks	Neil Todreas
5:00pm	Meeting concludes	



**LWRS Steering Committee  
CHARGE  
April 5-6 2011**

The Committee shall review the planned work and initial results of the LWR Sustainability (LWRS) R&D Program and advise the Technical Integration Office (TIO) as to:

1. Consider the Nuclear Energy Research and Development Roadmap, published in April 2010. Does the scope and schedule of the LWRS Program's planned-work over the next 10 years support Objective 1 and the deliverables of the Roadmap?
2. LWRS Program Planning
  - a. Evaluate the planning proposed for the next 1 to 3 year period.
  - b. Does the planning data (cost and schedule) provide reasonable overall estimates of the size and duration until 2020 of the LWRS program?
  - c. What is the proper annual funding level (long-term) for the LWRS Program at its equilibrium state in about 2015?
3. Will the initial deliverables (e.g., data and tools) of the LWRS R&D activities satisfy the 2015 program objective of building industry confidence in NPP long term operation?
4. Evaluate performance and accomplishments of each of the Technical Pathways up-to-date

Issue Date: \_\_\_\_\_

Authority: \_\_\_\_\_

Dr. Ronaldo. H. Szilard  
Director, LWR Sustainability Program  
Technical Integration Office



Ronaldo Szilard, Ph.D.  
Director, Technical Integration Office  
LWR Sustainability R&D Program  
Idaho National Laboratory  
Phone: (208)526-9376 • Fax: (208) 526-2390  
[ronaldo.szilard@inl.gov](mailto:ronaldo.szilard@inl.gov)

**From:** [ADAMS Bulletin](#)  
**To:** [ADAMS Bulletin](#)  
**Cc:** [ADAMS IM](#)  
**Subject:** ADAMS Unavailability Friday, March 25, 2011, After 6 PM  
**Date:** Thursday, March 24, 2011 5:21:08 PM

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**Bulletin:** ADAMS (Original and P8) Main Library (ML) and ADAMS Public Library will be unavailable from **6:00 p.m. to 9:00 p.m. on March 25, 2011**, for system maintenance.

**Impact:** All ADAMS ML and Public Library functions, including data entry, search, and retrieval will be temporarily unavailable.

**Contact:** ADAMS Support Center, [ADAMSIM@nrc.gov](mailto:ADAMSIM@nrc.gov), 301-415-1234, Option 1.

( AG / 1051 )



**From:** [Pickering, Susan Y](#)  
**To:** [Coe, Doug](#)  
**Subject:** RE: meet next week?  
**Date:** Thursday, March 24, 2011 5:22:25 PM

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Thanks!

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**From:** Coe, Doug [mailto:[Doug.Coe@nrc.gov](mailto:Doug.Coe@nrc.gov)]  
**Sent:** Thursday, March 24, 2011 2:00 PM  
**To:** Pickering, Susan Y  
**Cc:** Correia, Richard; Siu, Carolyn  
**Subject:** RE: meet next week?

Susan,  
Sounds good. Thanks

---

**From:** Pickering, Susan Y [mailto:[sypicke@sandia.gov](mailto:sypicke@sandia.gov)]  
**Sent:** Thursday, March 24, 2011 3:48 PM  
**To:** Correia, Richard; Coe, Doug  
**Subject:** meet next week?

Greetings,

I will be in DC next week and would like to meet w/ you (individually or a group) to check in, catch up on projects, etc. I know you are very busy now, so if your schedules are too tight, I will catch you next time.

My assistant will contact yours to set up appointments. Hope you are surviving!  
syp

Susan Y. Pickering  
Senior Manager, Nuclear Energy Safety Technologies  
P.O. Box 5800  
Albuquerque, NM 87185-0736  
Phone (505) 284-4800  
Fax (505) 844-0955  
Email: [sypicke@sandia.gov](mailto:sypicke@sandia.gov)

AG/1052

**Beasley, Benjamin**

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**From:** Manoly, Kamal  
**Sent:** Thursday, March 24, 2011 5:29 PM  
**To:** Hiland, Patrick  
**Cc:** Stutzke, Martin; Ferrante, Fernando; Ake, Jon; Bagchi, Goutam; Chokshi, Nilesh; Laur, Steven; Munson, Clifford; Bowman, Eric  
**Subject:** GL GSI-199 Schedule.docx  
**Attachments:** GL GSI-199 Schedule.docx

Pat,  
Per your instruction during today's meeting, we developed the attached draft timeline for the GL.  
Kamal

Complete GL Draft	04/08/2011
GL Concurrence	04/22/2011
Initial Public Meeting	05/17/2011
CRGR Meeting	05/26/2011
ACRS Subcommittee	06/21-24/2011
ACRS Full Committee	07/05-08/2011
Final GL Draft	07/29/2011
Public Meeting	08/26/2011
Public Comment Period	08/26/2011 - 10/28/2011
Incorporate Public Comments	11/18/2011
Issue GL	12/16/2011
1 <sup>st</sup> Response Deadline (+90 days)	3/30/2012
2 <sup>nd</sup> Response Deadline (+180 days)	6/30/2012

**From:** Leeds, Eric  
**To:** Howell, Art; Collins, Elmo; Pederson, Cynthia; Wert, Leonard; West, Steven; McCree, Victor; Dean, Bill; Lew, David; Weber, Michael; Virgilio, Martin  
**Subject:** FYI: Comm Team SitRep - 3/24  
**Date:** Thursday, March 24, 2011 5:35:00 PM

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I don't forward all of these, only the ones I think have interest to the regions. If this is NOT of interest to you, please let me know and I'll stop forwarding.

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

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**From:** Nelson, Robert  
**Sent:** Thursday, March 24, 2011 4:13 PM  
**To:** Leeds, Eric; Boger, Bruce; LIA06 Hoc; Roberts, Darrell; Lara, Julio; Kennedy, Kriss; Croteau, Rick; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Ferrell, Kimberly; Galloway, Melanie; Giitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Quay, Theodore; Ruland, William; Skeen, David; Thomas, Brian  
**Cc:** West, Steven; Shear, Gary; Hay, Michael; Meighan, Sean; Nguyen, Quynh; Thomas, Eric; Oesterle, Eric; Craver, Patti; Broadus, Doug; Campbell, Stephen; Carlson, Robert; Chernoff, Harold; Kulesa, Gloria; Markley, Michael; Pascarelli, Robert; Salgado, Nancy; Simms, Sophonia; Wall, Scott  
**Subject:** FYI: Comm Team SitRep - 3/24

1. DIRS is working on an update to the publicly available REMP Fact Sheet
2. DPR prepared responses to 10 Price Anderson Qs; forwarded to OPA for public availability.
3. DIRS developed a format for NEI to report environmental monitoring data; e-mailed to Alex Marion. In a related matter, NRR is developing a RIS to the licensees regarding radioisotopes detected by the REMP program
4. Provided quick-turnaround responses to several Qs forwarded by OPA.
5. Organizing and processing numerous related green tickets.
6. A principal focus for today has been the development of an easily searchable database for Qs & As, 2./206s, and controlled correspondence.
7. I attended the FOIA coordination meeting this afternoon along with Pattie Craver. My overall assessment is that we got no relief from the search & print requirements and no assistance from OIS in doing this in an automated way. The FOIA folks will provide guidance on timing. I'll get together with Pattie and develop some office wide guidance on how to proceed. Bottom line is that there is no easy way to respond.

NELSON

AG/1054

**From:** Sheron, Brian  
**To:** Case, Michael; Coe, Doug; Correia, Richard; Gibson, Kathy; Richards, Stuart; Scott, Michael; Uhle, Jennifer; Valentin, Andrea  
**Subject:** FW: SAD NEWS ABOUT THE PASSING OF JIM RICHARDSON  
**Date:** Thursday, March 24, 2011 5:42:42 PM

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I would imagine some of the RES staff that were here in the 1980's thru early 1990's will remember Jim. Please let them know.

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**From:** Leeds, Eric  
**Sent:** Thursday, March 24, 2011 5:29 PM  
**To:** Cohen, Miriam  
**Cc:** Sheron, Brian  
**Subject:** RE: SAD NEWS ABOUT THE PASSING OF JIM RICHARDSON

Thanks, Miriam. I remember Jim, although I did not know him well.

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

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**From:** Cohen, Miriam  
**Sent:** Thursday, March 24, 2011 5:22 PM  
**To:** Mayfield, Michael; Tracy, Glenn  
**Cc:** Leeds, Eric; Doane, Margaret  
**Subject:** RE: SAD NEWS ABOUT THE PASSING OF JIM RICHARDSON

Got it. Thanks.

---

**From:** Mayfield, Michael  
**Sent:** Thursday, March 24, 2011 5:05 PM  
**To:** Cohen, Miriam; Tracy, Glenn  
**Cc:** Leeds, Eric; Doane, Margaret  
**Subject:** SAD NEWS ABOUT THE PASSING OF JIM RICHARDSON

I got a call from Chuck Serpan (NRC retiree) this afternoon telling me about the death of Jim Richardson, another NRC retiree. As I understand it, Jim passed away on March 18<sup>th</sup> after an extended illness. His wife doesn't really know anyone at NRC anymore so she contacted Serpan, who contacted me.

Jim worked for many years in RES, then moved to NRR essentially as the Director of the Division of Engineering. He left that position and went to Vienna to work in the US Mission (essentially the job Mark has today). He retired shortly after returning from Vienna.

There are a number of us that have been around for a while that knew and worked for Jim so I'm sure an agency announcement would be appreciated. Since it has been so long since he worked here, I wasn't sure where to flag this so at Gary Holahan's suggestion, I'm starting with HR but cc'd Eric and Margie since he more or less finished his career with NRR and OIP.

A 6/1055

Please let me know if there is anything I can do to help on this.

Mike

**From:** [Ott, William](#)  
**To:** [Coyne, Kevin](#); [Coe, Doug](#)  
**Cc:** [Cady, Ralph](#); [Philip, Jacob](#); [Siu, Carolyn](#)  
**Subject:** While I am away from the office 3/25-28 the following staff will be acting: Jake Philip on Friday, 3/25; Ralph Cady on Monday, 3/28.  
**Date:** Thursday, March 24, 2011 5:51:23 PM

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AG/1056

**From:** Salley, MarkHenry  
**To:** Coe, Doug; Coyne, Kevin  
**Subject:** RE: PSA 2013  
**Date:** Thursday, March 24, 2011 6:34:51 PM

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Doug,

If I read Bob's email correctly, this is for "you to be a member of the Technical Program Committee for PSA 2013" which is different than attending the conference.

What should I tell Felix? Who and when will the net be cast?

Thanx

MHS

---

**From:** Coe, Doug  
**Sent:** Thursday, March 24, 2011 6:31 PM  
**To:** Salley, MarkHenry; Coyne, Kevin  
**Subject:** RE: PSA 2013

Mark,

We need to first cast the net to see who else is or may be interested.

---

**From:** Salley, MarkHenry  
**Sent:** Thursday, March 24, 2011 6:28 PM  
**To:** Coe, Doug; Coyne, Kevin  
**Subject:** FW: PSA 2013

BNL has asked Felix to participate in the ANS 2013 PSA conference. I think this would be great development for him. Can I let him accept the invitation?

MHS

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**From:** Gonzalez, Felix  
**Sent:** Thursday, March 24, 2011 2:23 PM  
**To:** Salley, MarkHenry  
**Subject:** FW: PSA 2013

What do you think for me participating on this?

---

**From:** Bari, Robert A [mailto:bari@bnl.gov]  
**Sent:** Thursday, March 24, 2011 2:22 PM  
**To:** Gonzalez, Felix  
**Cc:** Kevin.OKula@wsms.com  
**Subject:** PSA 2013

Dear Felix

The American Nuclear Society will hold an international topical meeting on Probabilistic Safety

AG/1057



Assessment during September 22-26, 2013 in Columbia, South Carolina. I am the Technical Program Chairman for this meeting and I intend to assure that a broad range of technical topics are represented. The first announcement of the conference is attached.

As we discussed on the phone today, I invite you to be a member of the Technical Program Committee for PSA 2013.

Kevin O'Kula is an Assistant Technical Program Chairman and we plan to hold our next meeting of the Technical Program Committee in conjunction with the ANS Winter Meeting in Washington DC, October 30-November 3, 2011. At this time, we would be happy to have your suggestions for program topics for our conference.

Please confirm your willingness to participate as a member of this committee.

Best regards,

Bob

Chairman  
Technical Program Committee  
ANS PSA 2013

**From:** [Barnes, Valerie](#)  
**To:** [Coe, Doug](#); [Coyne, Kevin](#)  
**Subject:** Done (EOM)  
**Date:** Thursday, March 24, 2011 6:47:25 PM

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AG/1058

**From:** [George Kech](#)  
**To:** [Eduardo Demoss](#); [Ibarra, Jose](#)  
**Cc:** [Coe, Doug](#); [Kurtzky, Alan](#); [Covello, Richard](#)  
**Subject:** RE: ACTION: 2nd Quarter FY2011 OpPlan Update and Performance Report Input - Due 3/30  
**Date:** Thursday, March 24, 2011 7:10:31 PM

---

Dan, Jose –

PRAB 2<sup>nd</sup> quarter op plan updates have been entered – Let me know if you have any questions.

Kevin

---

**From:** Hudson, Daniel  
**Sent:** Friday, March 11, 2011 11:02 AM  
**To:** Beasley, Benjamin; Demoss, Gary; Ott, William; Peters, Sean; Salley, MarkHenry; Kuritzky, Alan  
**Cc:** Coe, Doug; Coyne, Kevin; Hudson, Daniel; Ibarra, Jose  
**Subject:** ACTION: 2nd Quarter FY2011 OpPlan Update and Performance Report Input - Due 3/30

BCs:

Please update your E and O level milestones on the [RES User Need and Operating Plan SharePoint Site](#) and provide the following input for the 2nd Quarter FY2011 (1/1/2011 – 3/31/2011) Performance Report to [Jose Ibarra](#) by **COB on Wednesday, 3/30**.

- (1) 1-2 significant accomplishments per Branch, including a description of the regulatory significance and identification of the staff involved.
- (2) NUREGs published.
- (3) Significant meetings/conferences/published papers.
- (4) 1 challenge affecting technical work per Branch (if applicable).

To provide your input, you can either add your information to the attached template, or you can edit the shared file on the DRA SharePoint site at:

<http://portal.nrc.gov/edo/res/dra/Shared%20Documents/Quarterly%20Performance%20Report%20and%20OpPlan/FY%202011/2nd%20Quarter%20Performance%20Report%20Input.doc>

Thanks,  
Dan

Daniel W. Hudson  
Technical Assistant  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
Division of Risk Analysis  
[Daniel.Hudson@nrc.gov](mailto:Daniel.Hudson@nrc.gov)  
301-251-7919

AG/1059

**From:** [Coyne, Kevin](#)  
**To:** [Siu, Carolyn](#)  
**Cc:** [Coe, Doug](#)  
**Subject:** Midyear Alignment Meeting  
**Date:** Thursday, March 24, 2011 7:16:58 PM

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Carolyn –

Can you schedule a one hour meeting next week with Doug, Rich Correia, and the permanent branch chiefs (no acting BC's) to go over the midyear performance appraisal inputs?

Thanks!

Kevin

AG/1060

**From:** [Correia, Richard](#)  
**To:** [Coe, Doug](#)  
**Subject:** Re: What's on my radar  
**Date:** Thursday, March 24, 2011 8:11:47 PM

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Thx Doug. This is very helpful and will keep me focused on the priorities of the Division.  
Rich Correia, Director  
Division of Security Policy  
NSIR

---

**From:** Coe, Doug  
**To:** Correia, Richard  
**Sent:** Thu Mar 24 18:29:47 2011  
**Subject:** What's on my radar

Rich,

To give you some inkling of the things I keep on my radar, I've attached my complete "notes" (otherwise known as my paper brain) from which I refer during routine Monday morning Division mgmt team meetings (10am in 4C19). The office has an 8:45am Director's meeting, so you should plan on making that too.

The attached will likely be very cryptic and it may look a bit overwhelming, but I update it through the week and refresh it each Monday. It helps me not forget some (but NOT all) of the important stuff. My challenge is keeping focus on what's really important – our people, and ensuring they have the tools they need to do good work (which they do copiously):

I truly am thankful (my eyes are looking skyward) to have you arriving next week, and I look forward to introducing you to the best Division in the agency (well, at least one of the two best.....).

See you Monday,  
Doug

AG / 1061

## DRA weekly mgmt meeting - Items for Week of Mar 28

### Admin

CR until Apr 8 – see EDO notes regarding possible govt shutdown, ensure contractors have PM guidance to cover possible lapse in NRC availability

Need NLE HRMS rules – 12 hr shifts, turnover time, backshifts, pre-approvals, changes

### Contracts/Budget/Financial

PM required cert training (**June 30**)

### Training/Communications

Mandatory training – PII (due June 30), Computer security awareness (due Aug 15)

Researcher newsletter - technical articles – DRA owes next by 6/15 - Volunteer Branch?

### External Collaboration

Talk to OEGIB regarding RES suggestion program

Invite to Chm/Cmr for Halden EPG meeting Fall 2011 – sent to Chm office by OEDO 12/22/10 – Chm declined, going to other Cmrs

Research simulator grand opening and demo for NRR/NRO/TTC??

Halden summer Board meeting venue – OIP/IPT action (\$3K OK'd by OIP, meeting/banquet venue?) Chm to speak

With NRR/DRA and NRO/DSRA (1 day retreat outcome) – list of functional leads and need/depth rankings (Kevin poc) – need to resched followup retreat

### Personnel

Setup HFRB/FRB temp faculty seminar briefings to DRA?

Sibel perf appraisal or input

MA cert expires 4/22/11 – extend if appropriate

Carly 3+1 mon. rotation to NSIR – back March 28, extend 2 weeks to Apr 8

Millie rotation to OIS – mid-Jan to mid-Apr (extend 1 month to May 20/PP11?)

Jennene rotation as MA – same as Millie (extend 1 month to May 20/PP11?)  
– cover Chon's AL 4/18-4/22)

New TA – solicitation or post – discuss with Rich

DRA/FO – Carolyn term appt expires 7/2011 (strategy?)

PRB – GG-14 backfill for E. Goldfiez – interviewing now

PRAB – GG-13 backfill for J. Wood – prepping announcement

PRAB – GG-14 backfill for D. O'Neal – selected Ming Li

## This Week's Significant Meetings and Due Dates

Mar 29 - Commission Meeting on SMRs

### Important FUTURE DATES coming up:

Apr 5 – ACRS S/C (DSA lead) Adv Rx Research Plan

Apr 6 – ACRS S/C for CSGTR

Apr 8 – ACRS S/C for human factors in Digital I&C

Apr 11 – Level III PRA public meeting

Apr 20 - ACRS S/C for general HRA (am) and for Fire HRA (pm)

Apr 26 – Chernobyl anniversary 9:30-11:30 TWFN Aud

Apr 28 – Commission meeting on Japan events – focus on SBO

May 3 – Commission meeting on 30-day quick look report

May 9 – ACRS s/c for Level 3 PRA

May 16-20 NLE (avoid other major meetings) (hosting WGRisk DI&C workshop offsite)

May 27 – Commission meeting on AARM

June 8-9-10 – ACRS F/C for Level 3 PRA

Jun 16 – Commission meeting on 60-day quick look report

Jun 20? – Host Halden Board Meeting at NRC

Jun 30 - Certified PMs assigned to active contracts as of February 1, 2010, must complete the additional training courses required for FAC-COTR

July 28 – Commission meeting on Level 3 PRA

### DRA FY 2011 Researcher articles suggested/planned/completed

PRAB - challenges in DI&C risk, adv PRA methods (e.g., Level 2), Halden rotation

PRB - ASP

HFRB - SC, adv technology, HRA,

ETB –Reprocessing, ~~GW modeling and monitoring~~, bioremediation,

OEGIB –~~GI-199~~ LER opengov database access, GSI program

FRB – electric raceway fire barriers,

FO –

### DRA FY 2011 seminars scheduled with RES Front Office

~~Dec 14 10-11:30am – How Things Fail (DRA FO/Nathan)~~

~~Jan 20 – Estimating Climate Change Impacts on Regional Hydrology and Critical Infrastructure (ETB)~~

Apr ? (reschedule) – (Rob Tregoning) How Things Fail

April 19 – CSGTR (PRAB)

DRA tentative Division meetings and selected topics

~~Nov — DRA business process training and plans/expectations for FY11~~

~~Feb 2 — PRAB~~

Apr 26 12:30-2pm - HFRB hosts

Jun - ETB

Aug – FRB

Oct – PRB

Dec - OEGIB

Next DRA mgmt retreat – agenda ideas:

1. DRA strategic planning
2. Level III initiative collaboration/resourcing across the Division and externally
3. Ask HR to provide a short session on good mentoring/coaching techniques (ensure SLS are present)
4. Discuss any issues regarding financial management (with MAs?)
5. Discuss/develop DRA FY2011 management calendar/events (e.g. another Open House?, budget season, etc)



Work Process/Products (for discussion at weekly BC/SLS/MA meetings)

- Kevin – NRR IN on flooding – comments?
- CSGTR – ACRS s/c April
  - DI&C – ACRS June 7
  - ARP WG on Risk-Informed Licensing
  - SECY (Info) on Halden – due prior to next Halden agreement in Dec 2011
- Sean – Expert elicitation SRM – approach?
- User need status from NRO on HF research?
  - US crews to Halden – how to manage the communication?
  - STP new MOU
  - Robinson visit
  - Simulator demo for Brian/Jennifer/Customers
  - Operator Man Action WG – James
  - ARP WG on CR staffing
- Bill –
- billing problems with ACE
  - Green ticket from GWTF - progress
  - followup with Niles/NRO on TNF/environment research?
  - Reprocessing user need? What is needed to finish TB doc? 189 under review?
  - Wendy rotation to NMSS (start 2/14 for 6 mon.)
- Gary – Approach to EST draft user need for NMSS
- HB Robinson – brief other offices (DDD and DORL)?
  - Spent fuel misload report from SFST – mgmt comments?
  - CAP UNR being drafted by NRR – waiting for SRM?
  - Lessons learned on RPP paper – Brian W provide informal seminar?
  - risk-informing security, User need with NSIR – engagement with DHS
  - PRA Standards – joint user need (NRO/NRR) and response letter being drafted
  - CCF NUREG and RASP integrated plan (public comment on NUREG)
  - ASP paper – improvement plan for next year?
  - Chris H rotation to NRO after HBRobinson issued?
- Mark – EPRI-NRC MOU extension (fire) back from EPRI yet?
- PRISME 2 in-kind support progress?
- Ben – User need from NRR on GI-199 ongoing support?
- ACRS GI-199 – GIP brief to f/c, then GL brief to s/c then f/c (involve consultant Bill.....)
- INPO agreement to use their data in ICDE project with NEA – MOU? OEDO?
- GIP inputs resolution (Parks, other, .)
- GIP relation to public allegation website and allegation process (Lisa-Marie J.)
- Tracking system for non-GIs going to Long Term research
- Nathan – DHS risk-informed review meeting (2<sup>nd</sup>) and briefing to NSIR/Cmr A
- DOE LWR sustainability meeting
  - RES Seminar– How Things Fail? Mar 21 – Rob Tregonning?
  - DHS info exchange?
- Marty – Level III PRA
- GI-199
  - RMT
- Val – - safety culture – Comm mtg SRM? Closeout UNR?, new UNR, INPO MOU addendum?
- Part 26 activities – NEI petition review, SECY paper, Comm mtg Feb 8
  - WGHOF – HRA project connection (French driven)?
- Tom – VY, RIC panel, CoP on GW,
- Millie/Sibel – Source of market research requirement for DOE contracts??

User need status meetings with Division management of specific Customer Divisions

**NRO/DCIP (Lead DRA = HFRB) – next mtg: ??**  
5/7/10 (Dudes/Tappert)

**NRO/DSER (Lead DRA = ETB) – next mtg: ??**  
1/26/10, 8/18/10 (Chokshi/Flanders)

**NRR/DRA&DIRS (Lead DRA = PRB/PRAB) – next mtg: ??**  
4/21/10 (DRA Cheok/Samson Lee, and DIRS Brown/?)

NFPA805 follow-on activities – inspection guidance/planning  
RUG evolution (Paul Bonnet retiring)

**NRR/DRA&DE (C-SGTR, Lead DE, with DRA/DSA support, PRAB lead) – next mtg: ??**  
Aug 10 (kickoff with NRR, DE, DSA, DRA)

**NRR/DRA (Fire Protection, Lead DRA = FRB) – next mtg: Feb 23, May 4**  
3/4/2010, 7/1/2010, 10/10 (Weerakkody)

**NMSS/SFST (Lead DRA = PRB and HFRB) – next mtg: Feb 15**  
5/11/10, 9/23/10 (Ordaz/Kinneman)

**NMSS/FCSS (Lead DRA = ETB) – next mtg: ??**  
1/19/10 (Bailey)

**FSME/DWMEP (Lead DRA = ETB) – next mtg: ??**  
2/1/10, 9/21/10 (Camper)

**FSME/DMSSA (Lead DRA = HFRB) – next mtg: ??**  
(Rob Lewis)

Medical Inspection Procedure, Human Error Guide, OAS meeting Aug in Richmond

## Conferences – Foreign and Large Domestic

Date	Location	Title	Attending
Mar 13-17, 2011	Wilmington, NC	PSA 2011 Applications emphasis Every 2 years (alt w/PSAM)	Nathan Don H Susan
Mar 14-16, 2011	Ottawa, Canada	CNSC Info Exchange (incl HRA)	Susan
Summer 2011	Wash, DC	Halden Board Meeting	B. Sheron Alysia ?
June 26-30, 2011	Hollywood FL	ANS Annual meeting	Salley, Taylor DE – 2 (Hull, Dunn)
June 2011	France	ESREL 2011	Marty
Jun 18-25, 2011	Canada	Intl Conf on Radioecology and Environmental Radioactivity	Tom
Sep 19-23, 2011	Las Vegas	Human Factors and Ergonomics Society Annual Conference	Amy D'An J. Xing S. Fleger
Oct 2-7, 2011	Sandefjord, Norway	Expanded Halden Progr Grp mtg	Brian S. Nathan S. HF, Fuels, Material
June 25-29, 2012	Helsinki	PSAM 11 (Joint with ESREL 2012)	1-2 from RES 1 from NRR/DRA 1 from NRO/DSRA 2-3 from NMSS FSME/NSIR?
2013	Colombia, SC	PSA 2013	Nathan (on TPC)
Oct 30 – 3 Nov, 2013	Wash DC	ANS Annual Winter meeting with Risk Management embedded topical	
2014	Hawaii	PSAM 12	

DRA FY11 Foreign Travel requests to Halden and for WGRisk

Halden

<del>41</del>	<del>Experimental Design</del>	<del>10/10/10</del>	<del>Amy/2contractors</del>
<del>74</del>	<del>Semi-annual HPG meeting</del>	<del>11/8/10</del>	<del>James</del>
<del>2</del>	<del>Halden Board Meeting</del>	<del>12/6/10</del>	<del>Siu/Sheron/Dehn</del>
33	Semi-annual HPG meeting	5/1/11	Nathan/Alysia
167	Benchmarking proj meeting	5/2	Julie
165	Workshop on HF & Perf Meas.	5/31/11	Jing
	<i>Board meeting at NRC</i>	<i>June?</i>	<i>Alysia/?(Chm visit?)</i>
34	EHPG meeting	10/1/11	Nathan/Jing (Commissioner invite?)
	Halden Board Meeting	12/?/11	?

WGRisk

<del>19</del>	<del>Bureau meeting</del>	<del>10/2/10</del>	<del>Nathan/Kevin</del>
20	Bureau/Annual meetings	3/26/11	Nathan/Kevin
28	DI&C Failure modes	3/27/10	Gabe
32	DI&C Failure modes	(TBD)	Gabe
27	Adv Rx Design PRA workshop	6/1/11	Nathan/Jeff
137	WGRisk and CSNI Bureau	10/3/11	Nathan/Kevin

WGHO

178	WGHO Spring Meeting	4/1/11	Val
179	WGHO Fall Meeting	9/1/11	Val

Notes:

Nathan travel -

Date	Domestic	International
<del>Oct</del>		<del>WGRisk</del>
<del>Jan</del>	<del>ASME Stnd (w/Jeff)</del>	
<del>Feb</del>	<del>OhioStateU(workshop on uncertainty)</del>	
<del>Mar</del>	<del>PSA2011</del>	
Mar		WGRisk
May		Halden HPG Budapest
Jun		WGRisk workshop (w/Jeff)
Jul	ASME Stnds	
Oct		Halden EHPG
Oct		WGRisk/CSNI

**From:** [Rini, Brett](#)  
**To:** [Boyce, Tom \(RES\)](#); [Carpenter, Robert](#)  
**Cc:** [Case, Michael](#)  
**Subject:** FW: Priority Green Ticket 20110199: "Options to Seek Comments from National Stakeholders on IAEA Standards"  
**Date:** Friday, March 25, 2011 1:17:58 AM

---

Tom/Rob,

this will be something for you to work on as well.

Brett

---

**From:** Abu-Eid, Bobby  
**Sent:** Thursday, March 24, 2011 4:44 PM  
**To:** Lewis, Robert; Brach, Bill; Case, Michael; Camper, Larry  
**Cc:** Rodriguez, Sandra; Fleming, Barbara; Holahan, Vincent; Cool, Donald; Cook, John; Rini, Brett; Camper, Larry; Abu-Eid, Bobby; Felsher, Harry; Williams, Shawn; Virgilio, Martin; Rini, Brett; Williams, Shawn  
**Subject:** RE: Priority Green Ticket 20110199: "Options to Seek Comments from National Stakeholders on IAEA Standards"

IAEA SSCs Chairs/Coordinators:

Larry Camper and I were assigned an EDO Green Ticket #G20110199 task to "Coordinate with other Offices and IAEA SSCs to develop a draft option paper to be discussed with the DEDR and SSCs on how the NRC will meet its obligations on the new SSC Terms of Reference (TOR) regarding Seeking Comments on IAEA Standards from U.S. National Stakeholders. Therefore, we do appreciate your ideas and thoughts on approaches, methods, resources needed, and options to implement such obligation. We have also requested NRC Offices to provide their inputs on this issues. Please send your (SSC) input to Bobby Eid ([boby.abu-eid@nrc.gov](mailto:boby.abu-eid@nrc.gov)<<mailto:boby.abu-eid@nrc.gov>>) by May 7, 2011. Your inputs, as well as NRC's Offices inputs, will be considered and incorporated, as practical, in our draft paper on "Options to Seek Comments from National Stakeholders on IAEA Standards."

Your cooperation and prompt action is appreciated.

Bobby

**From:** Fleming, Barbara  
**Sent:** Thursday, March 24, 2011 3:14 PM  
**To:** Abu-Eid, Bobby; Holahan, Vincent; Cool, Donald  
**Cc:** Rodriguez, Sandra  
**Subject:** Priority Green Ticket 20110199  
**Importance:** High

Gentlemen:

Please see the attached priority green ticket, as well as the FSME ticket.

Barbara

Barbara F. Fleming  
FOIA/Records Management Specialist  
U.S. Nuclear Regulatory Commission  
FSME/PBPA/OB  
301-415-7292  
[Barbara.Fleming@nrc.gov](mailto:Barbara.Fleming@nrc.gov)

AG/1062

**From:** [GovExec.com newsletters](#)  
**To:** [Case, Michael](#)  
**Subject:** GovExec Today: USPS buyouts; Expanding fed health insurance; Intel conflicts of interest  
**Date:** Friday, March 25, 2011 5:03:17 AM

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# Today

FRIDAY, MARCH 25, 2011

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## HEADLINES

1. **USPS begins \$20,000 buyouts, early retirement processes**
2. **Intelligence community calls for clearer organizational conflict-of-interest rules**
3. **Health insurers urged to expand federal benefits**
4. **Protection of U.S. nuclear arsenal faulted by experts**
5. **From Nextgov.com: Pentagon seeks \$3.2 billion for revised cyber budget**
6. **Pentagon moves to stop work on second engine**
7. **FAA suspends controller who failed to respond to aircraft**
8. **The Week in Comments: USPS pay, fed benefits and the costs of Libya**
9. **In Libya war, new –and old– fears of terrorism**
10. **Fedblog: Pay Freezes: More Harm Than Good?**
11. **Today's column: Retirement Planning**
12. **The Earlybird: Today's headlines**
13. **Quote of the Day**

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### 1. **USPS begins \$20,000 buyouts, early retirement processes**

By Emily Long

Agency plans to cut 7,500 jobs and close seven postal districts, official says.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47414&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47414&dcn=e_gvet)

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AG/1063

2. **Intelligence community calls for clearer organizational conflict-of-interest rules**

By Robert Brodsky

Intelligence and National Security Alliance report argues consistent guidance is needed from the Director of National Intelligence.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47417&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47417&dcn=e_gvet)

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3. **Health insurers urged to expand federal benefits**

By Emily Long

OPM will seek expanded coverage and additional cost savings for 2012, Berry says.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47413&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47413&dcn=e_gvet)

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4. **Protection of U.S. nuclear arsenal faulted by experts**

By George A. Warner

National Nuclear Security Administration fails to coordinate with other agencies to guard stockpiles, says National Research Council.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47419&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47419&dcn=e_gvet)

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5. **From Nextgov.com: Pentagon seeks \$3.2 billion for revised cyber budget**

By Aliya Sternstein

The nearly \$1 billion increase over the amount the agency sought just last month reflects the re-categorization of programs as cybersecurity-related, Defense officials said.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47415&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47415&dcn=e_gvet)

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6. **Pentagon moves to stop work on second engine**

By Megan Scully, National Journal

Makers of the F-35 Joint Strike Fighter, GE and Rolls Royce, vow to keep the program alive until supporters in Congress can weigh in again.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47418&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47418&dcn=e_gvet)

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7. **FAA suspends controller who failed to respond to aircraft**

By Marc Ambinder, National Journal

Two commercial jets on final approach to Washington's Reagan National Airport were forced to land without getting information from the control tower.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47412&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47412&dcn=e_gvet)

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8. **The Week in Comments: USPS pay, fed benefits and the costs of Libya**

The best in reader reaction to recent articles.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47410&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47410&dcn=e_gvet)

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9. **In Libya war, new –and old– fears of terrorism**

By Yochi J. Dreazen and Sara Sorcher, National Journal

Gadhafi using terrorism is a "legitimate concern," says Pentagon official.

Full story: [http://www.govexec.com/story\\_page.cfm?articleid=47408&dcn=e\\_gvet](http://www.govexec.com/story_page.cfm?articleid=47408&dcn=e_gvet)

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10. **Fedblog: Pay Freezes: More Harm Than Good?**

By Kellie Lunney

*Outside the bureaucracy, looking in.*

**Thursday, March 24, 3:43 p.m. ET:**

Pay freezes and other restrictions on federal compensation could hurt the government more than help it, a leading budget analyst said on Thursday.

Read blog: <http://blogs.govexec.com/fedblog/>

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11. **Today's column: Retirement Planning**



## Are Cuts Coming?

Federal retirement benefits are under fire more than at any time in recent memory.

Full column: <http://www.govexec.com/dailyfed/0311/032511rp.htm>

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## 12. The Earlybird: Today's headlines

Get links to the top news of the day:

<http://www.govexec.com/dailyfed/ebird.htm>

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## 13. Quote of the Day

*We're really trying to reject the term telework. It's just work.*

-- Don Bathurst, chief admin officer at DHS, [on working outside the office](#).

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**From:** [GovExec.com newsletters](#)  
**To:** [Case, Michael](#)  
**Subject:** GovExec.com -- The Week Ahead  
**Date:** Friday, March 25, 2011 5:49:09 AM



# The Week Ahead

MARCH 28 - APRIL 1, 2011

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- **UPCOMING EVENTS**
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### Upcoming National Security Events

Later this month in Washington, DC

- [The Longest War and American Security](#) featuring CNN's Peter Bergen
- [WikiLeaks: Lessons Learned](#) featuring former CIA Inspector General Frederick Hitz

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### **Cybersecurity Report: Updates on the battle to protect data and systems**

Check out Nextgov's cybersecurity blog delivering breaking news and insights on federal cybersecurity efforts. **Don't miss the latest cybersecurity updates [click here!](#)**

#### ON THE HILL:

- **Senior Executive Service Challenges**

*Senate Homeland Security and Governmental Affairs Committee - Hearing [ 10:00 am, 03/29/2011 ]*  
Oversight of Government Management, the Federal Workforce, and the District of Columbia Subcommittee hearing on "Strengthening the Senior Executive Service: A Review of Challenges Facing the Government's Leadership Corps."

**Witness(es):** TBA

**Location:** 342 Dirksen Senate Office Building

**Contact:** 202-224-2627 <http://www.hsgac.senate.gov> (+WASE011+)

- **Defense Department Efficiencies Initiatives**

*Senate Armed Services Committee - Hearing [ 02:30 pm, 03/29/2011 ]*

Readiness and Management Support Subcommittee hearing on Defense Department efficiencies initiatives.

**Witness(es):** Defense Undersecretary/Comptroller Robert Hale; Undersecretary of the Army Joseph Westphal; Undersecretary of the Navy Robert Work; and Undersecretary of the Air Force Erin Conaton testify

**Location:** 232-A Russell Senate Office Building

**Contact:** 202-224-3871 <http://www.armed-services.senate.gov> (+WASE008+)

AG/1064

- **Cook Nomination**

*Senate Foreign Relations Committee - Hearing [ 02:30 pm, 03/29/2011 ]*

Full committee hearing on the nomination of Suzan Johnson Cook to be Ambassador at Large for International Religious Freedom.

**Witness(es):** The nominee testifies

**Location:** 419 Dirksen Senate Office Building

**Contact:** 202-224-4651 <http://foreign.senate.gov> (+WASE007+)

- **Preventing Defense Cost Overruns**

*Senate Homeland Security and Governmental Affairs Committee - Hearing [ 02:30 pm, 03/29/2011 ]*

Federal Financial Management, Government Information, Federal Services, and International Security Subcommittee hearing on "Tools to Prevent DoD Cost Overruns."

**Witness(es):** TBA

**Location:** 342 Dirksen Senate Office Building

**Contact:** 202-224-2627 <http://www.hsgac.senate.gov> (+WASE016+)

- **Economic Ramifications of Cyber Attacks**

*Senate Commerce, Science and Transportation Committee - Hearing [ 02:30 pm, 03/29/2011 ]*

Full committee hearing on "Economic Ramifications of Cyber Threats and Vulnerabilities to the Private Sector."

**Witness(es):** TBA

**Location:** 253 Russell Senate Office Building

**Contact:** 202-224-0411 <http://commerce.senate.gov> [Note: Pre-set TBA.] (+WASE020+)

- **FBI Oversight**

*Senate Judiciary Committee - Hearing [ 10:00 am, 03/30/2011 ]*

Full committee hearing on "Oversight of the Federal Bureau of Investigation."

**Witness(es):** FBI Director Robert Mueller testifies

**Location:** 226 Dirksen Senate Office Building

**Contact:** 202-224-7703 <http://judiciary.senate.gov> (+WASE012+)

- **Government Services Administration Oversight**

*Senate Environment and Public Works Committee - Hearing [ 10:00 am, 03/30/2011 ]*

Full committee and Oversight Subcommittee joint hearing on "GSA (Government Services Administration): Opportunities to Cut Costs, Improve Energy Performance, and Eliminate Waste."

**Witness(es):** TBA

**Location:** 406 Dirksen Senate Office Building

**Contact:** 202-224-8832 <http://epw.senate.gov> (+WASE036+)

- **Veterans' Groups Legislative Presentation**

*Senate Veterans' Affairs Committee - Hearing [ 10:30 am, 03/30/2011 ]*

Senate Veterans' Affairs Committee and House Veterans' Affairs Committee joint hearing on "Legislative Presentation of Air Force Sergeants Association, Military Order of the Purple Heart, Paralyzed Veterans of America, National Association of State Directors of Veterans Affairs, Wounded Warrior Project, Vietnam Veterans of America, The Retired Enlisted Association, American Ex-Prisoners of War."

**Witness(es):** TBA

**Location:** 106 Dirksen Senate Office Building

**Contact:** 202-224-9126 <http://veterans.senate.gov> [Note: Rescheduled from March 23.] (+WASE017+)

- **Active-Guard-Reserve-Civilian Defense Authorization**

*Senate Armed Services Committee - Hearing [ 01:00 pm, 03/30/2011 ]*

Personnel Subcommittee hearing on "Active, Guard, Reserve, and civilian personnel programs in review of the Defense Authorization request for FY2012 and the Future Years Defense Program."

**Witness(es):** Undersecretary of Defense for Personnel and Readiness Clifford Stanley; Lt. Gen.

Thomas Bostick, Army deputy chief of staff G-1; Vice Adm. Mark Ferguson III, chief of naval personnel;

Lt. Gen. Robert Milstead Jr., Marine deputy commandant for manpower and reserve affairs; and Lt.

Gen. Darrell Jones, Air Force deputy chief of staff for manpower, personnel and services, testify

**Location:** 222 Russell Senate Office Building

**Contact:** 202-224-3871 <http://www.armed-services.senate.gov> (+WASE002+)

• **Pending Nominations**

*Senate Judiciary Committee - Hearing [ 02:30 pm, 03/30/2011 ]*

Full committee hearing on nominations.

**Witness(es):** TBA

**Location:** 226 Dirksen Senate Office Building

**Contact:** 202-224-7703 <http://judiciary.senate.gov> (+WASE018+)

• **Army Authorization Request**

*Senate Armed Services Committee - Hearing [ 09:30 am, 03/31/2011 ]*

Full committee hearing on the "Department of the Army in review of the Defense Authorization Request for FY2012 and the Future Years Defense Program."

**Witness(es):** Army Secretary John McHugh; and Army Chief of Staff Gen. George Casey testify

**Location:** G-50 Dirksen Senate Office Building

**Contact:** 202-224-3871 <http://www.armed-services.senate.gov> [Note: Rescheduled from March 3.] (+WASE032+)

• **Army Corps of Engineers Budget**

*Senate Environment and Public Works Committee - Hearing [ 02:30 pm, 03/31/2011 ]*

Transportation and Infrastructure Subcommittee hearing on "President's Proposed FY2012 Budget for the Army Corps of Engineers."

**Witness(es):** TBA

**Location:** 406 Dirksen Senate Office Building

**Contact:** 202-224-8832 <http://epw.senate.gov> (+WASE037+)

• **Transportation Department Budget**

*House Appropriations Committee - Hearing [ 09:30 am, 03/29/2011 ]*

Transportation, Housing and Urban Development, and Related Agencies Subcommittee hearing on the budget for the Transportation Department.

**Witness(es):** Transportation Secretary Ray LaHood; and Assistant Treasury Secretary for Budget and Programs Chris Betram testify

**Location:** 2358 Rayburn House Office Building

**Contact:** 202-225-2771 <http://appropriations.house.gov> (+WAHO002+)

• **USAID Budget**

*House Appropriations Committee - Hearing [ 10:00 am, 03/30/2011 ]*

State, Foreign Operations and Related Programs Subcommittee hearing on the budget for the U.S. Agency for International Development (USAID).

**Witness(es):** USAID Administrator Rajiv Shah testifies

**Location:** 2359 Rayburn House Office Building

**Contact:** 202-225-2771 <http://appropriations.house.gov> (+WAHO001+)

• **Improving Response to Major Disasters**

*House Transportation and Infrastructure Committee - Hearing [ 10:00 am, 03/30/2011 ]*

Economic Development, Public Buildings, and Emergency Management Subcommittee hearing on "Improving the Nation's Response to Catastrophic Disasters: How to Minimize Costs and Streamline our Emergency Management Programs."

**Witness(es):** TBA

**Location:** 2167 Rayburn House Office Building

**Contact:** 202-225-9446 <http://transportation.house.gov> (+WAHO061+)

• **National Guard/Reserve Budget**

*House Appropriations Committee - Hearing [ 10:00 am, 03/30/2011 ]*

Defense Subcommittee hearing on the budget for the National Guard and Reserve.

**Witness(es):** Gen. Craig McKinley, chief of the National Guard Bureau; Lt. Gen. Harry Wyatt III, director of the Air National Guard; Lt. Gen. Jack Stultz, chief of the Army Reserve and commanding general of the U.S. Army Reserve Command; and Maj. Gen. Raymond Carpenter, acting director of the Army National Guard, testify

**Location:** H-140, U.S. Capitol

**Contact:** 202-225-2771 <http://appropriations.house.gov> [Note: Rescheduled from April 1.] (+WAHO041+)

- **NASA Exploration Program Transition**

*House Science, Space, and Technology Committee - Hearing [ 10:00 am, 03/30/2011 ]*

Space and Aeronautics Subcommittee hearing on "A Review of NASA's (National Aeronautics and Space Administration) Exploration Program in Transition: Issues for Congress and Industry."

**Witness(es):** Douglas Cooke, associate NASA administrator of the Exploration Systems Mission Directorate; Scott Pace, director of the Space Policy Institute at George Washington University; and James Maser, chairman of the Corporate Membership Committee of The American Institute of Aeronautics and Astronautics, testify

**Location:** 2318 Rayburn House Office Building

**Contact:** 202-225-6371 <http://science.house.gov> (+WAHO069+)

- **U.S. National Security Interests In Libya**

*House Foreign Affairs Committee - Hearing [ 10:00 am, 03/30/2011 ]*

Full committee hearing on "Libya: Defining U.S. National Security Interests."

**Witness(es):** TBA

**Location:** 2172 Rayburn House Office Building

**Contact:** 202-225-5021 <http://foreignaffairs.house.gov> [Note: Secretary of State Hillary Clinton has been invited to testify.] (+WAHO093+)

- **Unfunded Mandates/Regulatory Overreach (Part II)**

*House Oversight and Government Reform Committee - Hearing [ 01:30 pm, 03/30/2011 ]*

Technology, Information Policy, Intergovernmental Relations and Procurement Reform Subcommittee hearing on "Unfunded Mandates and Regulatory Overreach Part II."

**Witness(es):** TBA

**Location:** 2154 Rayburn House Office Building

**Contact:** 202-225-5074 <http://oversight.house.gov> (+WAHO600+)

- **Homeland Security's Science/Technology Budget**

*House Appropriations Committee - Hearing [ 02:00 pm, 03/30/2011 ]*

Homeland Security Subcommittee hearing on the budget for science and technology at the Homeland Security Department.

**Witness(es):** Homeland Security Undersecretary for Science and Technology Tara O'Toole testifies

**Location:** 2362-A Rayburn House Office Building

**Contact:** 202-225-2771 <http://appropriations.house.gov> (+WAHO094+)

- **Military Quality of Life Budget**

*House Appropriations Committee - Hearing [ 02:00 pm, 03/30/2011 ]*

Military Construction, Veterans' Affairs, and Related Agencies Subcommittee FY2012 budget hearing on "Quality of Life in the Military."

**Witness(es):** James Roy, chief master sergeant of the Air Force; Kenneth Preston, sergeant major of the Army; Carlton Kent, sergeant major of the Marine Corps; and Rick West, master chief petty officer of the Navy, testify

**Location:** H-140, U.S. Capitol

**Contact:** 202-225-2771 <http://appropriations.house.gov> (+WAHO045+)

- **Panama Trade Promotion Agreement**

*House Ways and Means Committee - Hearing [ 02:00 pm, 03/30/2011 ]*

Trade Subcommittee hearing on "Pending, Job-Creating Trade Agreements: Panama Trade Promotion Agreement."

**Witness(es):** TBA

**Location:** 1100 Longworth House Office Building

**Contact:** 202-225-3625 <http://waysandmeans.house.gov> [Note: Second of three hearings on the pending, job-creating trade agreements.] (+WAHO604+)

- **FOIA and Homeland Security Access**

*House Oversight and Government Reform Committee - Hearing [ 09:30 am, 03/31/2011 ]*

Full committee hearing on "Why Isn't The Department Of Homeland Security Meeting The President's Standard on FOIA (Freedom of Information Act)?"

**Witness(es):** TBA

**Location:** 2154 Rayburn House Office Building

**Contact:** 202-225-5074 <http://oversight.house.gov> (+WAHO608+)

- **Air Force Budget**

*House Appropriations Committee - Hearing [ 10:00 am, 03/31/2011 ]*

Defense Subcommittee hearing on the budget for the U.S. Air Force.

**Witness(es):** Secretary of the Air Force Michael Donley; and Air Force Chief of Staff Gen. Norton Schwartz testify

**Location:** H-140, U.S. Capitol

**Contact:** 202-225-2771 <http://appropriations.house.gov> (+WAHO048+)

- **NOAA/National Marine Fisheries Budget**

*House Natural Resources Committee - Hearing [ 02:00 pm, 03/31/2011 ]*

Fisheries, Wildlife, Oceans and Insular Affairs Subcommittee hearing on "Spending for the National Oceanic and Atmospheric Administration (NOAA) and the National Marine Fisheries Service and the President's FY2012 budget request for these agencies."

**Witness(es):** TBA

**Location:** 1334 Longworth House Office Building

**Contact:** 202-225-2761 <http://resourcescommittee.house.gov> (+WAHO085+)

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## OTHER EVENTS:

- **Federal Thrift Savings Plan Issues**

*Federal Retirement Thrift Investment Board (F.R. Page 15981) - Meeting [ 10:00 am, 03/28/2011 ]*

Federal Retirement Thrift Investment Board (F.R. Page 15981) holds a meeting.

Agenda includes: Approval of the minutes of the February 28, 2011 Board member meeting; Thrift Savings Plan activity report by the Executive Director; Monthly Participant Activity Report; Monthly Investment Performance Report; Legislative Report; Communication Awards; Audit Report Discussion; Audit Findings Summary Report; Department of Labor Audit Briefing; Roth Project Update; and a closed session

**Location:** 1250 H Street NW, Fourth Floor Conference Room, Washington, D.C.

**Contact:** Thomas Trabucco, 202-942-1640 (+WAFE005+)

- **IRS Customer Service**

*Treasury Department; Internal Revenue Service (IRS) (F.R. Page 6188) - Meeting [ 02:00 pm, 03/28/2011 ]*

Treasury Department; Internal Revenue Service (IRS) (F.R. Page 6188) holds a meeting by teleconference of the Taxpayer Advocacy Panel Earned Income Tax Credit Project Committee to solicit public comments, ideas and suggestions on improving customer service at the Internal Revenue Service.

**Location:** None given

**Contact:** Marianne Ayala, 888-912-1227; <http://www.improveirs.org> [Note: See contact for dial-in information.] (+WAFE713+)

- **Women Veterans**

*Veterans Affairs Department (VA) (F.R. Page 6197) - Meeting [ 08:30 am, 03/29/2011 ]*

Veterans Affairs Department (VA) (F.R. Page 6197) holds a meeting of the Advisory Committee on Women Veterans, March 29-31.

Agenda includes: updates on recommendations from the 2010 report; overviews of the Veterans Health Administration, the Veterans Benefits Administration, the National Cemetery Administration, and the Women Veterans Health Strategic Health Care Group; and briefings on mental health, women Veterans' legislative issues, women Veterans' research, rural health, and homeless initiatives for women Veterans

**Location:** VA, 810 Vermont Avenue NW, room 230, Washington, D.C.

**Contact:** Shannon Middleton, 202-461-6193, [00W@mail.va.gov](mailto:00W@mail.va.gov) [Note: RSVP required.] (+WAFE714+)

• **FAA Enhanced Flight Vision Systems**

*Transportation Department (DOT); Federal Aviation Administration (FAA) (F.R. Page 11847) - Meeting [ 09:00 am, 03/29/2011 ]*

Transportation Department (DOT); Federal Aviation Administration (FAA) (F.R. Page 11847) holds a meeting of Joint RTCA Special Committee 213: EUROCAE WG-79: Enhanced Flight Vision Systems/Synthetic Vision Systems, March 29-31.

**Location:** RTCA, Inc., 1828 L Street NW, Suite 805, Washington, D.C.

**Contact:** 202-833-9339 (+WAFE652+)

• **DOD Wounded Warrior Care/Management/Transition**

*Defense Department (DOD); Office of the Secretary of Defense (F.R. Page 12075) - Meeting [ 08:00 am, 03/30/2011 ]*

Defense Department (DOD); Office of the Secretary of Defense (F.R. Page 12075) holds a meeting of the Task Force on the Care, Management, and Transition of Recovering Wounded, Ill, and Injured Members of the Armed Forces, March 30-31.

**Highlights:**-- 8 a.m.: Opening and review of recent Task Force Installation Visits

-- 10:15 a.m.: Measures of Effectiveness and Systems of Performance and Accountability and Marine Corps Support to Caregivers in the Marine Corps Wounded Warrior Regiment

-- 11:45 a.m.: Marine Corps Measures of Effectiveness and Systems of Accountability: Medical Case Management, Wounded Warrior Regiment

-- 1:15 p.m.: Marine Corps Services for Traumatic Brain Injury and Post Traumatic Stress Disorder

-- 2:30 p.m.: Marine Corps Programs for Transition Assistance

-- 3:30 p.m.: Marine Corps Support Systems Disability Evaluation System

**Location:** Gaylord National Resort & Convention Center, 201 Waterfront Street, National Harbor, Md.

**Contact:** Denise Dailey, 703-325-6640, [rwtf@wso.whs.mil](mailto:rwtf@wso.whs.mil) (+WAFE679+)

• **Women Veterans**

*Veterans Affairs Department (VA) (F.R. Page 6197) - Meeting [ 08:30 am, 03/30/2011 ]*

Veterans Affairs Department (VA) (F.R. Page 6197) holds a meeting of the Advisory Committee on Women Veterans, March 29-31.

Agenda includes: updates on recommendations from the 2010 report; overviews of the Veterans Health Administration, the Veterans Benefits Administration, the National Cemetery Administration, and the Women Veterans Health Strategic Health Care Group; and briefings on mental health, women Veterans' legislative issues, women Veterans' research, rural health, and homeless initiatives for women Veterans

**Location:** VA, 810 Vermont Avenue NW, room 230, Washington, D.C.

**Contact:** Shannon Middleton, 202-461-6193, [00W@mail.va.gov](mailto:00W@mail.va.gov) [Note: RSVP required.] (+WAFE715+)

• **Federal Agency Video Hearings Report**

*Administrative Conference of the United States (ACUS) (F.R. Page 12315) - Meeting [ 09:00 am, 03/30/2011 ]*

Administrative Conference of the United States (ACUS) (F.R. Page 12315) holds a meeting of the Committee on Adjudication to consider a report by ACUS staff member Funmi E. Olorunnipa regarding the use of video hearings by Federal agencies, which examines the costs and benefits of video hearings as they are currently being used and the possibilities for expansion of use by Federal agencies.



**Location:** 1120 20th Street NW, Suite 706 South, Washington, D.C.

**Contact:** 202-480-2080 (+WAFE025+)

• **FAA Aviation Rulemaking**

*Transportation Department (DOT); Federal Aviation Administration (FAA) (F.R. Page 11848) - Meeting [ 10:00 am, 03/30/2011 ]*

Transportation Department (DOT); Federal Aviation Administration (FAA) (F.R. Page 11848) holds a meeting of the Executive Committee of the Aviation Rulemaking Advisory Committee.

Agenda includes: Discussion of potential restructuring of ARAC; Discussion of ARAC ExCom role in implementing Future of Aviation Advisory Committee (FAAC) recommendation #22; Update on FAA response to Process Improvement Working Group (PIWG) recommendations; Future work; Issue Area Status Reports from Assistant Chairs; and remarks from other EXCOM members

**Location:** FAA, 800 Independence Avenue SW, Washington, D.C.

**Contact:** Renee Butner, 202-267-5093, [Renee.Butner@faa.gov](mailto:Renee.Butner@faa.gov) (+WAFE659+)

• **FCC Technology Development Issues**

*Federal Communications Commission (FCC) (F.R. Page 14009) - Meeting [ 01:00 pm, 03/30/2011 ]*

Federal Communications Commission (FCC) (F.R. Page 14009) holds a meeting of the Technical Advisory Council.

**Location:** FCC, 445 12th Street SW, Commission Meeting Room, Washington, D.C.

**Contact:** Walter Johnston, 202-418-0807, [Walter.Johnston@FCC.gov](mailto:Walter.Johnston@FCC.gov) (+WAFE046+)

• **DOD Wounded Warrior Care/Management/Transition**

*Defense Department (DOD); Office of the Secretary of Defense (F.R. Page 12075) - Meeting [ 08:00 am, 03/31/2011 ]*

Defense Department (DOD); Office of the Secretary of Defense (F.R. Page 12075) holds a meeting of the Task Force on the Care, Management, and Transition of Recovering Wounded, Ill, and Injured Members of the Armed Forces, March 30-31.

**Highlights:**-- 8 a.m.: Welcome and Opening Remarks

-- 9 a.m.: Public Forum

-- 9:15 a.m.: Navy Measures of Effectiveness and Systems of Performance and Accountability for the Navy Safe Harbor Program

-- 10:45 a.m.: Navy Measures of Effectiveness and Systems of Accountability: Medical Care Case Management, Navy Safe Harbor Program

-- Noon: Navy Medical Services for Traumatic Brain Injury and Post Traumatic Stress Disorder

-- 1 p.m.: Navy Programs for Transition Assistance

-- 2:15 p.m.: National Guard Transition Assistance Advisor Program

-- 3:30 p.m.: National Guard Physiological Health Program

**Location:** Gaylord National Resort & Convention Center, 201 Waterfront Street, National Harbor, Md.

**Contact:** Denise Dailey, 703-325-6640, [rwtf@wso.whs.mil](mailto:rwtf@wso.whs.mil) (+WAFE687+)

• **DOE High-Hazard Nuclear Operations Oversight**

*Defense Nuclear Facilities Safety Board (F.R. Page 11764) - Meeting [ 09:00 am, 03/31/2011 ]*

Defense Nuclear Facilities Safety Board (F.R. Page 11764) holds a meeting of the to examine the Department of Energy's (DOE) implementation of Recommendation 2004-1, Oversight of Complex, High-Hazard Nuclear Operations.

**Location:** Defense Nuclear Facilities Safety Board, 625 Indiana Avenue NW, Suite 300, Washington, D.C.

**Contact:** Brian Grosner, 800-788-4016 (+WAFE660+)

• **Secretary of Labor v. Cumberland Coal Resources, LP**

*Federal Mine Safety and Health Review Commission (F.R. Page 16628) - Meeting [ 02:00 pm, 03/31/2011 ]*

Federal Mine Safety and Health Review Commission (F.R. Page 16628) holds a meeting of the to hear oral argument in the matter Secretary of Labor v. Cumberland Coal Resources, LP, Docket No. PENN 2008-189.

**Location:** 601 New Jersey Avenue NW, Ninth Floor, Backley Hearing Room, Washington, D.C.  
**Contact:** Jean Ellen, 202-434-9950 (+WAFE026+)

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- [The Longest War and American Security](#) featuring CNN's Peter Bergen
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**Last week's top stories**

- [Health insurers urged to expand federal benefits](#) (March 24)
- [Lawmakers question pay for USPS employees](#) (March 23)
- [Progress cited on reorganization of government](#) (March 22)
- [Report urges intelligence community to use more science in recruitment of analysts](#) (March 21)

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**• Quote of the Week:**

*"The first step is to figure out what we're trying to accomplish. We actually need to have the outcome information in order to have the conversation."*

-- --Shelley Metzenbaum, OMB's associate director for performance and personnel management, on [how to begin](#) reorganizing government.

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**From:** GovExec.com newsletters  
**To:** [Case, Michael](#)  
**Subject:** GovExec.com Columns: Retirement Planning  
**Date:** Friday, March 25, 2011 6:02:34 AM

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## Retirement Planning

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FRIDAY, MARCH 25, 2011

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### Are Cuts Coming?

By Tammy Flanagan, [National Institute of Transition Planning](#)

Lately, it seems everybody has an idea for cutting federal retirement benefits in the name of balancing the budget. The Congressional Budget Office has [weighed in](#) following an earlier [set of proposals](#) from the National Commission on Fiscal Responsibility and Reform. Last week, a group of Republican senators got in on the act, [introducing legislation](#) that would eliminate the basic retirement benefit under the Federal Employees Retirement System for everyone hired after 2012.

In the 30 years I've been working in the field of federal employee benefits, I've never seen a time when so many proposals affecting the financial security of federal retirees were floating around. None of the ideas has been implemented -- yet. But with so much emphasis on cost-cutting, and so many people making the case that government benefits are overly generous compared to the private sector, it seems like the stage is being set for real changes that could affect retirement benefits, cost-of-living adjustments, Social Security and even the Federal Employees Health Benefits Program.

### Working Longer

Before 1920, there was no federal retirement system. Employees just kept working -- sometimes past the point where they could provide useful and efficient service. Those who wanted to retire had to rely purely on their personal savings.

Now, a substantial portion of the typical federal retiree's income is derived from defined benefits such as a retirement check and Social Security payments. Reducing these sources of income would make for a much more uncertain retirement. Consider that it takes roughly \$300,000 in investments to produce around \$1,000 a month in income. And keep in mind, there are many variables affecting how long you can draw on such funds before you run out of money: How much is the principal earning each year? How risky are your investments? Are the withdrawals taxable? How long do you expect to live? Is anyone else depending on you so that the money would have to last more than one lifetime?

Suppose Congress and the White House agree on cutting back on federal retirement benefits,

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AG/1065

increasing employee contributions to FEHBP and raising the Social Security eligibility age. That could have ripple effects across the federal workforce.

Many employees would have to work longer to save enough money to cover their living expenses when they retire. That would leave fewer job openings for people looking to enter the workforce. And for employees who don't have enough money left over each month to save for their retirement, losing the FERS basic benefit, paying more for health insurance and having to wait longer for Social Security benefits could be devastating.

I hope the people making these proposals think long and hard about the possibility of ending up with a growing population of elderly people on welfare. That certainly wouldn't help the budget situation. It's worth remembering the words of President Franklin Roosevelt when he signed the 1935 Social Security Act:

We can never insure 100 percent of the population against 100 percent of the hazards and vicissitudes of life, but we have tried to frame a law which will give some measure of protection to the average citizen and to his family against the loss of a job and against poverty-ridden old age.

### **Defending Benefits**

I'm confident groups representing federal employees and retirees will make their voices heard in the coming debate over benefits. They will have their work cut out for them, but in the past three decades, most of the changes in federal benefits have been positive, thanks in large part to the effort of these groups.

Here are some of them:

- [National Active and Retired Federal Employees Association](#)
- [American Federation of Government Employees](#)
- [National Treasury Employees Union](#)
- [National Federation of Federal Employees](#)
- [Federal Managers Association](#)
- [Senior Executives Association](#)
- [Federal Law Enforcement Officers Association](#)

I'm sure there are other groups also working to protect and preserve federal benefits. If you know of any, feel free to note them in the comments section below.

*Tammy Flanagan is the senior benefits director for the [National Institute of Transition Planning Inc.](#), which conducts federal retirement planning workshops and seminars. She has spent 25 years helping federal employees take charge of their retirement by understanding their benefits.*

For more retirement planning help, tune in to "For Your Benefit," presented by the National Institute of Transition Planning Inc. live on Monday mornings at 10 a.m. ET on [federalnewsradio.com](#) or on WFED AM 1500 in the Washington metro area.

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---

**From:** [Ramadan, Liliana](#)  
**To:** [Case, Michael](#)  
**Subject:** FW: Battcon Technical Conference Paper  
**Date:** Friday, March 25, 2011 6:39:32 AM  
**Attachments:** [Battery Presentation Battcon 3232011.pptx](#)

---

Hi Mike,

Thanks for reading the paper. Attached are the slides that will be presented during the Battcon Presentation. Please let me know if you have any comments/objections to the information.

Thanks,

*Lily Ramadan*

Project Manager-Electrical Engineering Branch  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20850  
301-251-7642

---

**From:** Case, Michael  
**Sent:** Wednesday, March 09, 2011 6:55 AM  
**To:** Ramadan, Liliana  
**Subject:** RE: Battcon Technical Conference Paper

Hi Lily. Got it. I'll give it a look.

---

**From:** Ramadan, Liliana  
**Sent:** Tuesday, March 08, 2011 3:50 PM  
**To:** Case, Michael  
**Cc:** Richards, Stuart; Koshy, Thomas  
**Subject:** Battcon Technical Conference Paper  
**Importance:** High

Hi Mike,

I have attached a paper that will be presented at a technical battery conference May 2011. This paper has been collaborated with NRR and BNL. However, I would like to get your comments before its finalized.

I can brief you on the intent of the paper tomorrow morning or when your schedule better allows. At this point, I'm working on the presentation slides that will be incorporated as part of the NRC package for this upcoming conference.

Please feel free to ask me further questions,

*Lily Ramadan*

Project Manager-Electrical Engineering Branch

AG/1066

U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20850  
301-251-7642



Attachment Battery Presentation\_Battcon\_3232011\_1.pptx (2359206 Bytes) cannot be converted to PDF format.

## Beasley, Benjamin

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 6:49 AM  
**To:** Bensi, Michelle  
**Subject:** RE:

Of course. I will be here until 2:00

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

**From:** Bensi, Michelle  
**Sent:** Thursday, March 24, 2011 10:17 PM  
**Cc:** Beasley, Benjamin  
**Subject:**

I will be in the office tomorrow (not ops center). I will give you my OT sheet then. Its after 10pm, and I am just heading home. I will not be in the morning. I hope that plan is okay w/ you. Please let me know if it isn't.

Thanks,  
Shelby

**Beasley, Benjamin**

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 6:51 AM  
**To:** Coyne, Kevin  
**Cc:** Ott, William  
**Subject:** RE: covering ETB T&A

Yes

---

**From:** Coyne, Kevin  
**Sent:** Thursday, March 24, 2011 7:16 PM  
**To:** Beasley, Benjamin  
**Cc:** Ott, William  
**Subject:** covering ETB T&A

Ben –

Can you certify Bill's time this pay period – he's out both Friday and Monday...

Kevin

**Kauffman, John**

---

**From:** Kauffman, John  
**Sent:** Friday, March 25, 2011 6:52 AM  
**To:** Beasley, Benjamin  
**Subject:** RE: Joint Branch Meeting Next Week

Shelby,  
Please get together with Richard. He has 30 minutes. He is going to do the GI Program overview. I thought that you and he might talk some about your experiences doing the dam failure pre-GI. JVK

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 4:13 PM  
**To:** Bensi, Michelle  
**Cc:** Kauffman, John  
**Subject:** RE: Joint Branch Meeting Next Week

Check with John K; he is coordinating the meeting.

Ben

---

**From:** Bensi, Michelle  
**Sent:** Thursday, March 24, 2011 3:47 PM  
**To:** Beasley, Benjamin  
**Subject:** RE: Joint Branch Meeting Next Week

I am sorry, but what do I need to prepare for this meeting?  
Thanks,  
Shelby

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 8:35 AM  
**To:** Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Kauffman, John; Killian, Lauren; Lane, John; Perkins, Richard; Reisifard, Mehdi; Salomon, Arthur; Smith, April; Wegner, Mary  
**Subject:** Joint Branch Meeting Next Week

Please remember that we have the joint branch meeting with IOEB next Thursday and that you have material to prepare for that meeting.

Ben

**From:** [Zabel, Joseph](#)  
**To:** [Donaldson, Leslie](#)  
**Subject:** RE: Approval Requested. FW: Editing Request- RG 1.93, Rev. 1  
**Date:** Friday, March 25, 2011 7:18:00 AM

---

Hi Leslie:

According to the February spending from QTE, we are still good.

Joe

*Joe Zabel*  
*Senior Program Analyst/Technical Editor*  
U.S. Nuclear Regulatory Commission  
Office of Nuclear Regulatory Research  
PMDA/Document Control Branch  
[joseph.zabel@nrc.gov](mailto:joseph.zabel@nrc.gov)  
06D05

---

**From:** Donaldson, Leslie  
**Sent:** Thursday, March 24, 2011 9:14 AM  
**To:** Zabel, Joseph  
**Subject:** FW: Approval Requested. FW: Editing Request- RG 1.93, Rev. 1

*Joe -*  
*How is funding going in our QTE contract? Are we still on target?*  
*Thanks, Leslie*

---

**From:** QTE Resource  
**Sent:** Thursday, March 24, 2011 8:53 AM  
**To:** Donaldson, Leslie; Zabel, Joseph  
**Cc:** QTE Resource; Borges, Jennifer  
**Subject:** Approval Requested. FW: Editing Request- RG 1.93, Rev. 1

Leslie or Joe,

Keith Azariah-Kribbs asked me to obtain approval from you for editing jobs that will cost more than 400 dollars. The one requested by Jennifer Borges, below, will total approximately \$600.

Once I have your approval, I will have the editors begin work.

Thanks.

Jay

[QTE.Resource@nrc.gov](mailto:QTE.Resource@nrc.gov)

AG/1070

<http://www.internal.nrc.gov/ADM/techedit/techedit.html>

Mail Stop: TWB-05-B01M

Keith Azariah-Kribbs  
Room: TWB-05-A14  
(301) 492-3678

Jay Dougherty  
Room: TWB-05-A09  
(301) 492-3482

---

**From:** Borges, Jennifer  
**Sent:** Wednesday, March 23, 2011 4:09 PM  
**To:** QTE Resource  
**Cc:** Orr, Mark; Zabel, Joseph; West, Stephanie  
**Subject:** Editing Request- RG 1.93, Rev. 1

Hello,


Please edit the attached documents. A completion date of close of business March 29, 2011 would be appreciated. If you have any questions, please let me know.


Thank You,


*Jennifer Borges*


Regulatory Guide Specialist


RES/DE/RGDB

 301-251-7617

 301-251-7422

 C2A07M

 [Jennifer.Borges@nrc.gov](mailto:Jennifer.Borges@nrc.gov)

 Please consider the Environment before printing this e-mail.

## Beasley, Benjamin

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 7:33 AM  
**To:** Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Kauffman, John; Killian, Lauren; Lane, John; Perkins, Richard; Reisifard, Mehdi; Salomon, Arthur; Smith, April; Wegner, Mary  
**Subject:** Branch meeting with Jennifer

Next Tuesday's branch meeting is when Jennifer will join us. Please be ready for your 3 minute introduction of yourself and the work you are doing.

Ben

AG / 1071

**Kauffman, John**

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 7:34 AM  
**To:** Kauffman, John  
**Subject:** Accepted: FW: Joint Branch Meeting Between RES OEGIB and NRR IOEB

AG/1072



## Beasley, Benjamin

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 7:53 AM  
**To:** Smith, April  
**Subject:** RE: Release date for April Smith  
**Attachments:** image001.gif

Where do you get the emoticons in Outlook? I could not find them.

---

**From:** Smith, April  
**Sent:** Friday, March 25, 2011 7:52 AM  
**To:** Beasley, Benjamin  
**Subject:** RE: Release date for April Smith

'k ☺ and ☹

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 7:45 AM  
**To:** Smith, April  
**Subject:** FW: Release date for April Smith

April 23 is it.  
:-{

---

**From:** Bailey, Marissa  
**Sent:** Thursday, March 24, 2011 4:41 PM  
**To:** Dean, Vivian  
**Cc:** Beasley, Benjamin; Coe, Doug; Kinneman, John  
**Subject:** RE: Release date for April Smith

That's fine.

---

**From:** Dean, Vivian  
**Sent:** Thursday, March 24, 2011 4:39 PM  
**To:** Bailey, Marissa  
**Subject:** FW: Release date for April Smith

Marissa,

The email below is a reply from April's currently BC Ben Beasley in reference to a release date. Please let me know if you agree with April 23.

Thanks. Vivian

---

**From:** Beasley, Benjamin  
**Sent:** Thursday, March 24, 2011 4:07 PM  
**To:** Williams, Michelle; Okleson, Edward  
**Cc:** Coe, Doug; Smith, April  
**Subject:** RE: Release date for April Smith

Michelle,

In order for April to wrap up one project and transition other projects to other Branch members, I need April to stay in OEGIB until April 23. After April 23, I will need April to support an occasional meeting with OIS on our NUREG-0933 upgrade project. The support should only be a few meetings of a couple hours each, for a maximum of about 10 hours during May and June.

Regards,  
Ben

---

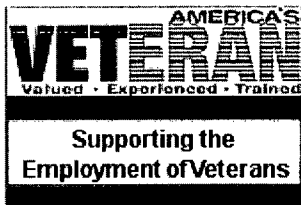
**From:** Williams, Michelle  
**Sent:** Tuesday, March 22, 2011 11:25 AM  
**To:** Okleson, Edward; Beasley, Benjamin  
**Subject:** FW: Release date for April Smith

Hi Ben,

NMSS has requested to pick-up April Smith to transition before leaving for the Graduate Fellowship. Please let me know if you would agree to the proposed release date or would like to suggest an alternative date.

Thanks,

Michelle Williams  
Human Resources Specialist  
Office of Human Resources  
US Nuclear Regulatory Commission  
Email: [Michelle.Williams@nrc.gov](mailto:Michelle.Williams@nrc.gov)  
Phone: 301-251-7469  
Fax: 301-251-7427



---

**From:** Dean, Vivian  
**Sent:** Tuesday, March 22, 2011 11:21 AM  
**To:** Williams, Michelle  
**Subject:** Release date for April Smith

Hi Michelle,

April Smith has accepted the GFP-PRA position in NMSS. The office is requesting April 9<sup>th</sup> as a release date from RES. This will allow NMSS time to transition her in to the new position before she leaves to attend graduate school in the fall. This is a lateral reassignment for Ms. Smith. Please let me know if RES agrees to the date.

Thank you.

Vivian

**From:** [Dean Murphy](#)  
**To:** [Leeds, Eric](#)  
**Subject:** FW: Did you see this?  
**Date:** Friday, March 25, 2011 8:00:45 AM

---

Hi

Did you have a chance to read the articles?

I know that power uprates are of interest to you, so you might be interested in the 2nd Annual Nuclear Power Uprate Conference - [www.nuclearenergyinsider.com/uprate](http://www.nuclearenergyinsider.com/uprate)

The meeting will have 10+ utility representatives discussing power uprate strategies to help you understand current regulatory, licensing and technical challenges surrounding power uprates to master project execution.

You can download the brochure now at [www.nuclearenergyinsider.com/uprate](http://www.nuclearenergyinsider.com/uprate) to see the conference agenda, expert speaker line-up and receive the latest conference discounts for this year's meeting.

Have a great weekend

Dean

---

**From:** Dean Murphy [mailto:[dmurphy@eyeforeenergy.com](mailto:dmurphy@eyeforeenergy.com)]  
**Sent:** Wednesday, March 23, 2011 08:28 AM  
**To:** Eric  
**Subject:** Best of U.S. Nuclear Developments: Power Uprates

Hi

I wanted to fire over a quick email as I have found three articles looking at power uprates in the US that might be interesting for you to read - [www.nuclearenergyinsider.com/news](http://www.nuclearenergyinsider.com/news)

The articles look at the following:

- Exelon to Invest \$5B in Nuclear Uprates, Smart Grid, Coal Plant Closures
- The Best of U.S. Nuclear Developments 2010: Uprates and Loan Guarantees
- Uprates Help Exelon Meet Emission Targets

There are no forms to fill in - I hope that they are of interest to you

Best Regards

Dean Murphy  
Senior Industry Analyst  
Nuclear Energy Insider

Tel: +44 (0) 207 375 7204  
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Address: 7-9 Fashion St, London, E1 6PX, UK  
Email: [dmurphy@eyeforeenergy.com](mailto:dmurphy@eyeforeenergy.com)  
Website: <http://analysis.nuclearenergyinsider.com/>

AG/1074

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**Kauffman, John**

---

**From:** Boska, John  
**Sent:** Friday, March 25, 2011 8:04 AM  
**To:** Kauffman, John  
**Subject:** Out of Office:

I will be out of the office until March 28, 2011. If you need assistance, please contact our branch secretary at 301-415-1430.

AG/1075

## Kauffman, John

---

**From:** Kauffman, John  
**Sent:** Friday, March 25, 2011 8:04 AM  
**To:** Khanna, Meena  
**Cc:** Jessup, William; Jones, Steve; Istar, Ata; Boska, John; Markley, Michael; Oesterle, Eric  
**Subject:** RE:  
**Attachments:** image001.gif

Meena,  
Thanks for the quick turnaround. This looks to be just what we need! JVK

---

**From:** Khanna, Meena  
**Sent:** Thursday, March 24, 2011 6:06 PM  
**To:** Kauffman, John  
**Cc:** Jessup, William; Jones, Steve; Istar, Ata; Boska, John; Markley, Michael; Oesterle, Eric  
**Subject:**

John, as requested, pls see the attached information that Billy Jessup has put together to address your request regarding seismic evaluations of the IP2 and IP3 SFPs. Pls. note that the information that Billy has provided is based on the seismic loads that the plants are licensed to, which feed into the structural analysis of the SFPs.

Pls let us know if you need any further information.

Thanks,

Meena Khanna, Branch Chief  
Mechanical and Civil Engineering Branch  
Division of Engineering  
Office of Nuclear Reactor Regulation  
(301)415-2150  
[meena.khanna@nrc.gov](mailto:meena.khanna@nrc.gov)

-----  
Fyi.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: [john.boska@nrc.gov](mailto:john.boska@nrc.gov)

**From:** Boska, John  
**Sent:** Thursday, March 24, 2011 12:24 PM  
**To:** Kauffman, John; Jones, Steve  
**Cc:** Istar, Ata  
**Subject:** RE: Follow-up to meeting with New York State on IP2/3 Seismic Issues

John,  
One obvious resource is the plant UFSAR. These are located on the NRC server Y:/APPS/CDIMAGES/FSAR . Just use My Computer to navigate there. You can then right click and select a desktop shortcut if you wish. For IP2, see section 9.5.2.1.4. (IP3 in same area).  
Another is the review done for license renewal. The NRC's final SER is in NUREG-1930, 2 volumes, ML093170451, ML093170671. There is some SFP work in there.

Also, Ata Istar is reviewing the Indian Point SFPs, you could contact him.

Also, in 1996 NRR did a review of the licensing basis for all spent fuel pools, but I don't think there was much seismic review.

There were license amendments on the spent fuel pools for high-density storage. You can find these in ADAMS by searching using the docket number and date. For IP2, amendment 150 was on 4/19/90. For IP3, see amendment 90, dated 10/12/89.

John Boska  
Indian Point Project Manager, NRR/DORL  
U.S. Nuclear Regulatory Commission  
301-415-2901  
email: [john.boska@nrc.gov](mailto:john.boska@nrc.gov)

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 10:58 AM  
**To:** Jones, Steve; Boska, John  
**Subject:** Follow-up to meeting with New York State on IP2/3 Seismic Issues

Steve, John,

One of the follow-up items from this week's meeting was to learn what seismic evaluations had been done on the IP 2 and 3 SFPs (and when these evaluations were down). Do you have any info or can you point me in the right direction? Thanks in advance.



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

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

**From:** [PMDAInfoNotice Resource](#)  
**To:** [NRR Distribution](#)  
**Subject:** NRR LUNCH 'N LEARN WEDNESDAY, APRIL 6  
**Date:** Friday, March 25, 2011 8:12:38 AM

---

**- PMDA INFORMATION NOTICE -**  
**Friday, March 25, 2011**

NEL

**IN NUMBER: 11-034**

**CONTACT: Ilyne Miller ([Ilyne.Miller@nrc.gov](mailto:Ilyne.Miller@nrc.gov)), 301-415-7184**

Please join members of the NRR Executive Team, at the next Lunch 'n Learn, Wednesday, April 6, 12:00 p.m.-1:00 p.m., in room T-8A1. NRR's own Heather Astwood will engage participants in a discussion of her four years at the International Atomic Energy Agency (IAEA), and her experience living in Vienna. For those working at an alternate location, there are four lines available. The bridge number is 1-888-398-1687, passcode: 16522#, Leader's Name: Ilyne Miller.

Please continue to send your topic suggestions for future Lunch 'n Learn sessions to NRR's Knowledge Management Program Manager, Ilyne Miller ([Ilyne.Miller@nrc.gov](mailto:Ilyne.Miller@nrc.gov)).

Rohn E. Brown, Chief  
Human Capital Branch  
Program Management, Policy Development  
and Analysis Staff  
Office of Nuclear Reactor Regulation

AG/1077



## Murphy, Andrew

---

**From:** Anooshehpoor, Rasool  
**Sent:** Friday, March 25, 2011 8:23 AM  
**To:** Bob Woodward; Greg Anderson; William Leith S; Benz Harley; Kammerer, Annie; Murphy, Andrew; Chuck Estabrook; David Simpson; cobb@uky.edu; Kenneth Taylor  
**Cc:** Raymond Willemann  
**Subject:** RE: Stakeholders meeting for leveraging USArray in the Central and Eastern US

Hi Bob,

The week of May 30 will not work for me. The week of April 25 is fine. I will not be available on Monday, May 9, but the rest of that week would be fine.

Regards,

Rasool

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

**From:** Bob Woodward [mailto:woodward@iris.edu]  
**Sent:** Thursday, March 24, 2011 6:34 PM  
**To:** Greg Anderson; William Leith S; Benz Harley; Kammerer, Annie; Murphy, Andrew; Chuck Estabrook; David Simpson; cobb@uky.edu; Kenneth Taylor; Anooshehpoor, Rasool  
**Cc:** Raymond Willemann  
**Subject:** Stakeholders meeting for leveraging USArray in the Central and Eastern US

All,

Please find attached some notes from our meeting back in January. It looks like Jim has been getting a very good response to his survey of AASG membership.

Since I believe we were all in agreement regarding the goal of holding an "Executive Summary" type of meeting here in Washington, I think the next step is to select some target dates so we can nail down the logistics. We can then iterate on the particulars of an agenda after that. I volunteered to work the logistics side, thus this e-mail.

We are targeting a half day (or less) meeting here in downtown Washington. In reviewing the calendar I think some target windows would be:

Week of April 25  
Week of May 9  
Week of May 30

The week of April 25 is a general congressional recess, and the week of May 30 is a Senate recess. I understand that it may be easier for congressional staffers to attend meetings during congressional recesses (when they have less time pressure).

Let me know how these candidate dates work or if you have any comments on the process I have outlined.

Regards,

Bob

From: ECW Daily  
To: Case, Michael  
Subject: GSA's cloud security revamp | Does pay matter?  
Date: Friday, March 25, 2011 8:31:38 AM

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3/25/2011

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### **Research Special Report: Cloud Computing**

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Cloud security remains a legitimate, though over hyped, concern. Several agencies are confidently wading through complicated cloud security concerns to help others feel better about releasing control of their data.

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AG/1079

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This message was sent to: [mjc@nrc.gov](mailto:mjc@nrc.gov)

**From:** [Jung, Ian](#)  
**To:** [Rebstock, Paul](#)  
**Cc:** [Sydnor, Russell](#); [Jackson, Terry](#); [Case, Michael](#)  
**Subject:** RE: N6116: NRO response to draft NUREG  
**Date:** Friday, March 25, 2011 8:37:07 AM

---

Paul, we will get back next week when Terry is back. One of Terry's staff worked on it. - Ian

---

**From:** Rebstock, Paul  
**Sent:** Friday, March 25, 2011 8:34 AM  
**To:** Jung, Ian  
**Cc:** Sydnor, Russell; Jackson, Terry; Case, Michael  
**Subject:** RE: N6116: NRO response to draft NUREG

Thanks, Ian.

The memo is marked OUO, but the NUREG that it addresses is not OUO and in fact is intended for public disclosure. The need for the OUO designation on the comments is unclear to us. Even if the NUREG itself were OUO, there does not appear to be anything in the NRO comments that relates to security details to render the comments OUO. The OUO designation on the NRO comments (but not on the NRR or NSIR comments) will complicate the handling of the comments and the responses to them.

Would it be possible for NRO to reconsider the need for the OUO designation, and possibly to reissue the comments without it? If NRO believes the comments to be OUO, please describe the reasoning so that we can ensure that the NUREG does not need to be so designated itself.

- Paul

---

**From:** Jung, Ian  
**Sent:** Thursday, March 24, 2011 4:25 PM  
**To:** Rebstock, Paul  
**Cc:** Sydnor, Russell; Jackson, Terry  
**Subject:** RE: N6116: NRO response to draft NUREG

Paul, I think the attached memo documented our comments. - Ian

---

**From:** Rebstock, Paul  
**Sent:** Thursday, March 24, 2011 3:51 PM  
**To:** Jackson, Terry; Jung, Ian  
**Cc:** Sydnor, Russell  
**Subject:** N6116: NRO response to draft NUREG

Hi Terry, Ian – We sent out a draft NUREG on Jan12 for comment, but have received no response yet from NRO. The request was in ML110060528. Comments were requested within 60 days, or about March12. The NUREG title is "Secure Network Design for Nuclear Power Plants." Do you anticipate providing any comments?

Thanks,  
- Paul

AG/1080

**From:** Nelson, Robert  
**To:** Leeds, Eric; Boger, Bruce; Glitter, Joseph; Grobe, Jack; LIA06 Hoc; Weaver, Doug  
**Subject:** FYI: Earthquake in Connecticut  
**Date:** Friday, March 25, 2011 8:37:41 AM

---

REL

---

**From:** Setzer, Thomas  
**Sent:** Thursday, March 24, 2011 3:24 PM  
**To:** Clifford, James; Roberts, Darrell; Sheehan, Neil; Screnci, Diane; Tifft, Doug; McNamara, Nancy; Gray, Mel; Bickett, Brice; Jackson, Donald; Catts, Michelle; Newport, Christopher; Rao, Ami; Cataldo, Paul  
**Subject:** Earthquake in Connecticut

Mark Roberts of DNMS emailed me today informing me that he received a courtesy call from the ISFSI Manager at Haddam Neck notifying that there was a 1.3 magnitude earthquake approximately 10 miles from the site in Moodes, CT at 8:42 pm last night (3/23).

The Haddam Neck ISFSI was contacted by a local fire chief who requested and was granted access to the site because he wanted to investigate reports of an apparent explosion, but found nothing.

Haddam Neck was contacted this morning by the CT DEP (ED Wilds) who confirmed the earthquake.

Haddam Neck did prepare a Condition Report to document the event and their review that nothing out of the ordinary was found.

The earthquake was not felt at Millstone. I copied Indian Point folks on this fyi.

USGS reported this on their website today:  
<http://earthquake.usgs.gov/earthquakes/recenteqsusc/Quakes/ne00001235.php>

AG/1081

## Murphy, Andrew

---

**From:** Raymond Willemann [ray@iris.edu]  
**Sent:** Friday, March 25, 2011 9:03 AM  
**To:** Bob Woodward  
**Cc:** Greg Anderson; William Leith S; Benz Harley; Kammerer, Annie; Murphy, Andrew; Chuck Estabrook; David Simpson; cobb@uky.edu; Kenneth Taylor; Anoooshehpoor, Rasool  
**Subject:** Re: Stakeholders meeting for leveraging USArray in the Central and Eastern US

Bob,

I have a long appointment at mid-day on May 10. Otherwise, I'm available on the dates that you suggest.

Ray

On Mar 24, 2011, at 6:33 PM, Bob Woodward wrote:

> All,  
>  
> Please find attached some notes from our meeting back in January. It looks like Jim has been getting a very good response to his survey of AASG membership.  
>  
> Since I believe we were all in agreement regarding the goal of holding an "Executive Summary" type of meeting here in Washington, I think the next step is to select some target dates so we can nail down the logistics. We can then iterate on the particulars of an agenda after that. I volunteered to work the logistics side, thus this e-mail.  
>  
> We are targeting a half day (or less) meeting here in downtown Washington. In reviewing the calendar I think some target windows would be:  
>  
> Week of April 25  
> Week of May 9  
> Week of May 30  
>  
> The week of April 25 is a general congressional recess, and the week of May 30 is a Senate recess. I understand that it may be easier for congressional staffers to attend meetings during congressional recesses (when they have less time pressure).  
>  
> Let me know how these candidate dates work or if you have any comments on the process I have outlined.  
>  
> Regards,  
>  
> Bob  
>  
>  
> <USARRay\_CEUS\_notes\_01\_2011.docx>

**From:** [Coyne, Kevin](#)  
**To:** [Richards, Stuart](#)  
**Cc:** [Case, Michael](#)  
**Subject:** RE: Operations Center Reactor Safety Team Watchbill  
**Date:** Friday, March 25, 2011 9:17:38 AM

---

Stu –

The attachment is what Jeanne Dion told me was sent over to the ops center last week. Can't explain the absence of DE folks (but DRA is near the bottom).

I'm about to send out the current watch bill, so that might help I'd gaps in coverage.

Kevin

---

**From:** Richards, Stuart  
**Sent:** Friday, March 25, 2011 9:15 AM  
**To:** Coyne, Kevin  
**Cc:** Case, Michael  
**Subject:** RE: Operations Center Reactor Safety Team Watchbill

Kevin

I see DSA on the attachment. I don't see anything for DE or DRA.

Is there a separate list for DE and DRA? Or am I just in error in looking at the file?

Thanks  
Stu

---

**From:** Coyne, Kevin  
**Sent:** Friday, March 25, 2011 9:06 AM  
**To:** Gibson, Kathy; Case, Michael; Richards, Stuart  
**Cc:** Coe, Doug; Sheron, Brian; Uhle, Jennifer; Rini, Brett; Dion, Jeanne  
**Subject:** FW: Operations Center Reactor Safety Team Watchbill  
**Importance:** High

Kathy, Mike, Stu –

Just got calls from both Jerry Dozier and Mike Cheok from the Ops Center. They are starting to burn out their reactor safety team support and are looking for volunteers with expertise in severe accidents and PRA. They are currently looking at staffing through April 3, but have a few critical needs this weekend. DRA can coordinate getting a list back to Jerry, but could you provide any other volunteers from DE and DSA? I have the list that went up on March 17 (see attached) and can obviously provide this back to Jerry, but I wasn't sure if you had any changes or updates.

Obviously a quick turnaround – if we could get any additional feedback from you by noon, that would give the IRC time to coordinate coverage.

Thanks!

AG/1083

Kevin

---

**From:** Cheok, Michael

**Sent:** Friday, March 25, 2011 8:45 AM

**To:** Wong, See-Meng; Mitman, Jeffrey; Zoulis, Antonios; Harrison, Donnie; Dozier, Jerry; Howe, Andrew

**Cc:** Laur, Steven; Circle, Jeff; Rodriguez, Veronica; Lee, Samson; Coyne, Kevin; Demoss, Gary; Lombard, Mark; Coe, Doug

**Subject:** Operations Center Reactor Safety Team Watchbill

To those on the "To" list: I have added your names as PRA/systems analysts to be used in the Reactor Safety Team (RST) watchbill. Jerry Dozier will be contacting you to coordinate times and dates when you will be available. The RST has several slots to fill this weekend. To those I already had a chance to talk to, thanks for volunteering. To the others who I have not talked to yet, you can still decline if you would like. The RST will be staffed (at the least) for the next several weeks.

Steve Laur and Jeff Circle – please inform Jerry if you are able/willing to continue.

Gary Demoss and Kevin Coyne – thanks for helping to look for RES volunteers. Please let me and Jerry Dozier know when you come up with a list.

Mark Lombard – would NRO have available PRA/systems type analysts who would be able to help staff the RST? The more staff we have on the list, the more we would spread out the work load.

Thanks

Mike



## Murphy, Andrew

---

**Subject:** RES Seminar: 25th Anniversary of Chernobyl – April 26, 2011 – 9:30 a.m. – 11:30 a.m.  
**Location:** TWFN Auditorium

**Start:** Tue 4/26/2011 9:30 AM  
**End:** Tue 4/26/2011 11:30 AM

**Recurrence:** (none)

**Meeting Status:** Accepted

**Organizer:** Bonaccorso, Amy  
**Required Attendees:** Bonaccorso, Amy  
**Optional Attendees:** RES Distribution

When: Tuesday, April 26, 2011 9:30 AM-11:30 AM (GMT-05:00) Eastern Time (US & Canada).  
Where: TWFN Auditorium

Note: The GMT offset above does not reflect daylight saving time adjustments.

\*~\*~\*~\*~\*~\*~\*~\*~\*~\*

A RES Seminar on the 25th Anniversary of Chernobyl will be held in the TWFN Auditorium on April 26, 2011 from 9:30 a.m. to 11:30 a.m. A summary of the RBMK reactor type, the accident, radiological impacts, and sarcophagus will be given by Brian Sheron, Director of the Office of Nuclear Regulatory Research, and Frank Congel (retired NRC employee), Former Director, Division of Incident Response Operations, NSIR and Former Director, OE.

This agenda gives the order of presentations and speakers:

Introduction – Mike Weber, Deputy Executive Director for Materials, Waste, Research, State, Tribal, and Compliance Programs  
RBMK Reactor Type – Brian Sheron  
Summary of Chernobyl Accident – Brian Sheron  
Radiological Impact – Frank Congel  
Sarcophagus – Frank Congel

Details about VTCs will be provided when available.

AG/1084

From: Federal Computer Week and GCN  
To: Leeds, Eric  
Subject: A core technology for cloud computing  
Date: Friday, March 25, 2011 9:34:36 AM

REL



This Federal Computer Week and GCN exclusive webcast is sponsored by IBM

Dear Eric,

EMA research has shown that the service catalog is pivotal for deployment of virtual computing environments where employee, customer and partner interaction is high.

This exclusive webcast featuring EMA Research Director Lisa Erickson-Harris and IBM Product Manager Pandian Athirajan will discuss what is driving renewed investment in the service catalog and how it has grown beyond the IT shop, as well as learn:

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- How the service catalog can be useful outside of IT;
- Toolset requirements for flexibility and
- Tips for avoiding the mishaps often experienced in service catalog design.

#### SPEAKERS

**Lisa Erickson-Harris**, Research Director, IBM

**Pandian Athirajan**, Product Manager, IBM

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#### Webcast Details

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**From:** [Bayssie, Mekonen](#)  
**To:** [Richards, Stuart](#)  
**Cc:** [Stevens, Gary](#); [Csontos, Aladar](#); [Case, Michael](#); [Boyce, Tom \(RES\)](#)  
**Subject:** RE: RG 1.44  
**Date:** Friday, March 25, 2011 9:41:07 AM

---

Stu,

I thought we did not have to send them but I could have a redline strikeout between the original and what changed.

Mekonen

---

**From:** Richards, Stuart  
**Sent:** Friday, March 25, 2011 9:00 AM  
**To:** Bayssie, Mekonen  
**Cc:** Stevens, Gary; Csontos, Aladar; Case, Michael; Boyce, Tom (RES)  
**Subject:** RG 1.44

Mekonen

~  
Do we need to send the revised RG 1.44 back to the ACRS for review again?

The reason I ask is that the last sentence of the ACRS letter to us on the four RG's states that the ACRS is looking forward to reviewing the revised version of RG 1.44, or words to that affect.

Thanks  
Stu

AG/1086

REL

**From:** OPA Resource  
**To:** Ash, Darren; Barkley, Richard; Batkin, Joshua; Bell, Hubert; Belmore, Nancy; Bergman, Thomas; Bollwerk, Paul; Bonaccorso, Amy; Borchardt, Bill; Bozin, Sunny; Brenner, Elliot; Brock, Terry; Brown, Boris; Bubar, Patrice; Burnell, Scott; Burns, Stephen; Carpenter, Cynthia; Chandrathil, Prema; Clark, Theresa; Collins, Elmo; Couret, Ivonne; Crawford, Carrie; Cutler, Iris; Dacus, Eugene; Dapas, Marc; Davis, Roger; Dean, Bill; Decker, David; Dricks, Victor; Droggitis, Spiros; Flory, Shirley; Franovich, Mike; Gibbs, Catina; Hanev, Catherine; Hannah, Roger; Harbuck, Craig; Harrington, Holly; Hasan, Nasreen; Hayden, Elizabeth; Holahan, Gary; Holahan, Patricia; Holian, Brian; Jacobssen, Patricia; Jaczko, Gregory; Jasinski, Robert; Jenkins, Verlyn; Johnson, Michael; Jones, Andrea; Kock, Andrea; Kotzalas, Margie; Ledford, Joey; Lee, Samson; Leeds, Eric; Lepre, Janet; Lew, David; Lewis, Antoinette; Loyd, Susan; Macwood, William; McCrary, Cheryl; McGrady-Finneran, Patricia; McIntyre, David; Mensah, Tanya; Mitlving, Viktoria; Monninger, John; Montes, David; Nieh, Ho; Ordaz, Vonna; Ostendorff, William; Owen, Lucy; Powell, Amy; Quesenberry, Jeannette; Reddick, Darani; Regan, Christopher; Reyes, Luis; Riddick, Nicole; RidsSecyMailCenter Resource; Riley (OCA), Timothy; Rohrer, Shirley; Samuel, Olive; Satorius, Mark; Schaaf, Robert; Schmidt, Rebecca; Scott, Catherine; Screnci, Diane; Shaffer, Vered; Shane, Raeann; Sharkey, Jeffrey; Sheehan, Neil; Sheron, Brian; Siurano-Perez, Osiris; Steger (Tucci), Christine; Svinicki, Kristine; Tabatabai, Omid; Tannenbaum, Anita; Taylor, Renee; Temp, WDM; Thomas, Ann; Uhle, Jennifer; Uselding, Lara; Vietti-Cook, Annette; Virgilio, Martin; Virgilio, Rosetta; Walker-Smith, Antoinette; Weaver, Doug; Weber, Michael; Weil, Jenny; Werner, Greg; Wiggins, Jim; Williams, Evelyn; Zimmerman, Roy; Zorn, Jason  
**Subject:** NRC Issues Final Supplemental Environmental Impact Statement for Vogtle New Reactors Application  
**Date:** Friday, March 25, 2011 9:56:47 AM  
**Attachments:** 11-058.docx

---

Attached to be released in approximately one hour.

AG/1087



# NRC NEWS

U.S. NUCLEAR REGULATORY COMMISSION

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

No. 11-058

March 25, 2011

## NRC ISSUES FINAL SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT FOR VOGTLE NEW REACTORS APPLICATION

The Nuclear Regulatory Commission has completed its Final Supplemental Environmental Impact Statement (FSEIS) for a limited work authorization (LWA) and the Combined Licenses (COL) for the proposed Vogtle Units 3 and 4 reactors. The NRC, in its FSEIS, concluded that there are no environmental impacts that would preclude issuing the LWA and COLs for construction and operation of the proposed reactors at the site, near Waynesboro, Ga.

The FSEIS will be available on the NRC website at: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1947/>. The NRC staff issued a draft SEIS for the LWA and COLs in September 2010 that supplemented its environmental findings from the Early Site Permit issued for the Vogtle site in August 2009. The staff held a public meeting in October 2010 to gather comments on the draft SEIS.

Southern Nuclear Operating Company submitted its new reactor application for Vogtle on March 23, 2008, and supplemented the application on Oct. 2, 2009. Southern is applying for licenses to build and operate two AP1000 reactors at the Vogtle site, adjacent to the company's existing reactors approximately 26 miles southeast of Augusta, Ga. Westinghouse submitted an application to amend the already-certified AP1000, a 1,100 megawatt electric design, on May 26, 2007. More information on the AP1000 amendment review is available on the NRC website here: <http://www.nrc.gov/reactors/new-reactors/design-cert/amended-ap1000.html>.

The NRC's publishing of the FSEIS is only part of the overall Vogtle COL review. The agency staff continues to compile its final safety evaluation report (SER), which will include recommendations from the NRC's Advisory Committee on Reactor Safeguards, an independent group of nuclear safety experts. The NRC's final licensing decision will be based on the FSEIS and SER findings, along with a ruling from the five-member Commission that heads the agency.

The Vogtle FSEIS can also be viewed in the NRC's ADAMS online documents system at <http://wba.nrc.gov:8080/ves> by entering accession number ML11076A010 in the search window. In addition, the Burke County Library, 130 Highway 24 South in Waynesboro, will have a hardbound copy of the FSEIS available for public inspection.

###

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**From:** FOSE 2011 Show  
**To:** Case, Michael  
**Subject:** Keynotes Announced!  
**Date:** Friday, March 25, 2011 10:02:45 AM


FOSE 2011



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**From:** [Helton, Shana](#)  
**To:** [Evans, Michele](#); [McGinty, Tim](#); [Case, Michael](#); [Hiland, Patrick](#); [Bergman, Thomas](#); [Jones, Bradley](#)  
**Cc:** [Quay, Theodore](#); [Bladey, Cindy](#); [Love-Blair, Angella](#); [Lubinski, John](#); [Lupold, Timothy](#); [Khanna, Meena](#); [Manoly, Kamal](#); [Terao, David](#); [Hoffman, Keith](#); [Basavaraju, Chakrapani](#); [Thomas, George](#); [Jessup, William](#); [Wu, Cheng-Ih](#); [Kavanagh, Kerri](#); [McIntyre, Richard](#); [Norris, Wallace](#); [Dudes, Laura](#); [Dixon-Herrity, Jennifer](#); [Csontos, Aladar](#); [McMurtray, Anthony](#); [Wolfgang, Robert](#); [Mizuno, Geary](#); [Wallace, Jay](#); [Benney, Kristen](#); [Hiser, Allen](#); [Markley, Anthony](#); [Blount, Tom](#); [Holian, Brian](#); [Padovan, Mark](#)  
**Subject:** Update on the 50.55a ASME Code Edition and Addenda Final Rulemaking  
**Date:** Friday, March 25, 2011 10:07:34 AM  
**Attachments:** [Status of 50 55a Final Rulemaking 3-25-11.docx](#)

---

All,

Mark recently provided a monthly update (on March 4, 2011), and while we committed to providing monthly status reports, I'm sending this a little early to highlight the outstanding progress made by Mark and the 50.55a team over the last 3 weeks.

First, I have to say thank you very much to everyone who has been keeping the focus on this rulemaking activity, despite the focus on the events that continue to unfold in Japan. Mark, and likely several others on the 50.55a team, has been keeping the 50.55a rule on track for publication in early May, as planned. Mark in particular has been doing an admirable job of maintaining focus on our mission while balancing the several shifts (several of them night shifts) he is serving in the Ops Center.

Second, there are a couple very big 'good news' items to report:

1. ACRS has formally waived their review of the rule.
2. OMB has approved the insignificant burden determination for this rulemaking.

These both represent removal of significant risks to the rulemaking schedule, and the fact that OMB's review went so quickly is a testament to staff efforts to coordinate the inputs to OMB.

Thank you all for your continued focus and commitment to this rule. The upcoming next steps are in the attached status report. Please contact myself or Mark if you have any specific questions on the remaining items in the schedule.

Thank you,  
Shana

---

**From:** Padovan, Mark  
**Sent:** Friday, March 04, 2011 8:33 AM  
**To:** [Evans, Michele](#); [McGinty, Tim](#); [Case, Michael](#); [Hiland, Patrick](#); [Bergman, Thomas](#); [Jones, Bradley](#)  
**Cc:** [Quay, Theodore](#); [Bladey, Cindy](#); [Love-Blair, Angella](#); [Lubinski, John](#); [Lupold, Timothy](#); [Khanna, Meena](#); [Manoly, Kamal](#); [Terao, David](#); [Hoffman, Keith](#); [Basavaraju, Chakrapani](#); [Thomas, George](#); [Jessup, William](#); [Wu, Cheng-Ih](#); [Kavanagh, Kerri](#); [McIntyre, Richard](#); [Norris, Wallace](#); [Dudes, Laura](#); [Dixon-Herrity, Jennifer](#); [Csontos, Aladar](#); [Helton, Shana](#); [McMurtray, Anthony](#); [Wolfgang, Robert](#); [Mizuno, Geary](#); [Wallace, Jay](#); [Benney, Kristen](#); [Hiser, Allen](#); [Markley, Anthony](#); [Blount, Tom](#); [Holian, Brian](#)  
**Subject:** Status of the 50.55a ASME Code Edition and Addenda Final Rulemaking

50.55a Rulemaking Steering Committee,

AG/1089

Attached is a 1-page Monthly Status report on the 50.55a ASME Code edition and addenda final rulemaking. Tony Markley will provide separate monthly status reports for the 50.55a ASME Code edition and addenda proposed rulemaking.

Mark

**10 CFR 50.55a ASME Code Edition and Addenda  
Final Rulemaking Monthly Status Update – March 25, 2011**

**Purpose:** Update 50.55a Rulemaking Steering Committee on the status of the final rulemaking to incorporate the 2005 Addenda thru 2008 Addenda of ASME B&PV Code and the 2005 Addenda and 2006 Addenda of the OM Code into 10 CFR 50.55a.

Status of the Final Rulemaking

- March 11, 2011: DPR received editorial review comments from ADM on the rule package.
  - DPR and technical staff resolved the comments and incorporated them into the rulemaking package.
- March 11, 2011: ACRS memo to DPR (ML110630426) stated that ACRS will not review and has no objection to the staff issuing the final rule.
- March 22, 2011: OIS indicated that OMB approved the insignificant burden determination for this final rulemaking.
- Concurrences received on the rulemaking package from everyone except for ADM, RES, and OGC.

Next Steps

<b>Date</b>	<b>Action</b>	<b>Assignee</b>	<b>Status</b>
3/14 – 3/25/11	Remaining inter-office concurrences	RES	late
3/25 - 4/1/11	ADM concurrence and forwarding to the Office of the Federal Register (OFR) for incorporation-by-reference review	ADM	
3/25/11- 4/8/11	OGC review and NLO.	OGC	
4/1 – 4/30/11	OFR review and approval – 30 day nominal	ADM	
4/12 – 4/20/11	NRR OD review (including mailroom, PMDA reviews and any necessary briefings)	NRR/DPR tech. staff	
5/13/11	Publish final rule in the FR	ADM	

Identified Risks

- ADM and OFR Reviews
  - Any delays with OFR reviews could delay publication of this rule.

## Kauffman, John

---

**From:** Smith, April  
**Sent:** Friday, March 25, 2011 10:14 AM  
**To:** Kauffman, John  
**Subject:** RE: Weekly activities for 3/21 - 3/25/2011 and planned activities for 3/28 - 4/1/2011

### Weekly Activities for 3/21 – 3/25/2011

- Out of office 3/21 – 3/23
- Attended Generic Issues Program promotion meeting
- Coordinated next steps for Generic Issues Program promotion with BB, SB, and LK
- Finalized and submitted 2Q FY 2011 for LK
- Discussed with HR and assessed requirements for GFP
- Completed proposed Generic Issues entries in GIMCS

### Planned Weekly Activities for 3/28 – 4/1/2011

- Draft first proposed Generic Issues report
- Submit Generic Issues Program brochure to graphics
- Coordinate and turnover Generic Issues Program Promotion activities
- PM training 3/31

AG/1090

**From:** Renaissance Naples Hotel Mediterraneo  
**To:** Leeds, Eric  
**Subject:** Italy with the Government Rate at Renaissance Naples  
**Date:** Friday, March 25, 2011 10:27:18 AM

REL

Newsletter n. 13/2011 - 21 Mar. 2011 | Renaissance Naples Hotel Mediterraneo

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AG/1091

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**From:** [Correia, Richard](#)  
**To:** [Coe, Doug](#)  
**Subject:** April 1 in office?  
**Date:** Friday, March 25, 2011 10:41:50 AM

---

Doug. I like to take April 1 as a Cws day off. Are you planning to be in that day?  
Rich Correia, Director  
Division of Security Policy  
NSIR

AG/1092



**From:** do\_not\_reply@ilearnnrc.plateau.com  
**To:** Coe, Doug  
**Subject:** Supervisor Approval Required for JENNENE LITTLEJOHN  
**Date:** Friday, March 25, 2011 10:29:22 AM

---

JENNENE LITTLEJOHN

Has requested the following course for approval or has verified their attendance in the following course:

Registration: Registration: CPR/AED FOR THE COMMUNITY AND THE WORKPLACE  
Start Date/Time: 5/11/2011 08:30 AM ET  
End Date/Time: 5/11/2011 12:30 PM ET

Comments:

Please go to the Approvals section of iLearn at your earliest convenience to examine this request. If you have any questions about the approval, please contact the employee requesting/verifying this course or your Training Coordinator.

Click the following link to access the approvals section of iLearn. [Click Here](#)

**Why did you get this message?**

You received this message for one of three reasons, either:

**1. Request for course registration**

Your subordinate requested registration for the course listed above. As the supervisor, your approval is required for them to register for this course. This registration is currently pending your approval. This registration will only be confirmed in iLearn when you approve this request. If you have any questions about how to do this, please refer to the Supervisor's Approving Requests for Training job aid:  
[https://ilearnnrc.plateau.com/content/nrc/help\\_guide/docs/output/supervisor/approving\\_requests\\_for\\_SF182.html](https://ilearnnrc.plateau.com/content/nrc/help_guide/docs/output/supervisor/approving_requests_for_SF182.html)

**2. SF-182 request for external training**

Your subordinate submitted an SF-182 request for external training. As the supervisor, your approval is required for this request to be approved. This request will only be confirmed when all of the approving officials listed above have approved the request. If you have any questions about how to approve an SF-182 request, please refer to the Supervisor's Approving Requests for Training job aid:  
[https://ilearnnrc.plateau.com/content/nrc/help\\_guide/docs/output/supervisor/approving\\_requests\\_for\\_SF182.html](https://ilearnnrc.plateau.com/content/nrc/help_guide/docs/output/supervisor/approving_requests_for_SF182.html)

**3. Verified attendance of SF-182 training** Your subordinate has verified attendance for the external (SF-182) training listed above. Verification includes confirmation of attendance or non-attendance. Since SF-182 training is external to NRC, this is the only way for the system to track your subordinate's status with this activity. As the supervisor, you must now verify the attendance before the process can be completed and the training can be added to the Learning History. You may do so by going to the Approvals section of iLearn. This message will continue to be sent until you have verified their attendance in iLearn. If you have any questions about how to do this, please refer to the Supervisor's Approving Requests for Training job aid:  
[https://ilearnnrc.plateau.com/content/nrc/help\\_guide/docs/output/supervisor/approving\\_requests\\_for\\_SF182.html](https://ilearnnrc.plateau.com/content/nrc/help_guide/docs/output/supervisor/approving_requests_for_SF182.html)

For additional information please contact your training coordinator.  
The name and contact information for training coordinators may be found at:  
<http://papaya.nrc.gov/Training/coordinators.cfm>

Please tell us whether this notification was helpful by clicking on the following link.  
<https://www.surveymonkey.com/s/6M25CCR>

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AG/1093

**From:** [Sheron, Brian](#)  
**To:** [RidsResOd Resource](#); [Uhle, Jennifer](#); [RidsResPmdaMail Resource](#)  
**Cc:** [Case, Michael](#); [Richards, Stuart](#)  
**Subject:** RE: FOR TICKETING: FW: Re: Priority Green Ticket G20110199 (attachved)  
**Date:** Friday, March 25, 2011 10:56:59 AM

---

Ticket to DE.

---

**From:** Flory, Shirley **On Behalf Of** RidsResOd Resource  
**Sent:** Friday, March 25, 2011 10:54 AM  
**To:** Sheron, Brian; Uhle, Jennifer; RidsResPmdaMail Resource  
**Subject:** FOR TICKETING: FW: Re: Priority Green Ticket G20110199 (attachved)  
**Importance:** High

This needs ticketing.

Thanks - Shirley

---

**From:** Fleming, Barbara  
**Sent:** Thursday, March 24, 2011 4:51 PM  
**To:** RidsNrrOd Resource; RidsResOd Resource; RidsOipMailCenter Resource; RidsNsrOd Resource; RidsNroOd Resource; RidsNmssOd Resource; RidsOgcMailCenter Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource  
**Cc:** Abu-Eid, Bobby; Rodriguez, Sandra  
**Subject:** Re: Priority Green Ticket G20110199 (attachved)

Please provide your suggestions, ideas, and thoughts regarding options on how the NRC will meet its obligations to seek comments from its National Stakeholders for IAEA Safety Standards. (See attached EDO ticket.)

Please provide your response to Bobby Abu-Eid by 05/07/11.

***Barbara F. Fleming***

FOIA/Records Management Specialist

U.S. Nuclear Regulatory Commission

FSME/PBPA/OB

301-415-7292

[Barbara.Fleming@nrc.gov](mailto:Barbara.Fleming@nrc.gov)

AG/1094

**From:** Zabel, Joseph  
**To:** Chan, Deborah  
**Subject:** RE: Hi - have you heard from Janet today?...  
**Date:** Friday, March 25, 2011 10:59:00 AM

---

Hi Debbie:

I have not seen or heard from her . . . I have her cell phone number if we need to call her.

Joe

*Joe Zabel*  
*Senior Program Analyst/Technical Editor*  
*U.S. Nuclear Regulatory Commission*  
*Office of Nuclear Regulatory Research*  
*PMDA/Document Control Branch*  
*[joseph.zabel@nrc.gov](mailto:joseph.zabel@nrc.gov)*  
*06D05*

---

**From:** Chan, Deborah  
**Sent:** Friday, March 25, 2011 10:01 AM  
**To:** Zabel, Joseph; Vera, Graciela  
**Subject:** Hi - have you heard from Janet today?...

...she's not on the calendar for being off or working at home and I have her credit hours sheet that shows that she is working today...I emailed her at about 9:30 and haven't heard back.

I'm a bit worried...I suggest we call her if you have a phone no., Joe (or maybe I do) if we don't hear from her in the next 30 minutes? I also asked Deonna if she knew where she was and she didn't. Neither did Julie.

Any other advice?  
Debbie

AG/1095

**From:** IDG Connect  
**To:** [Case, Michael](#)  
**Subject:** Gartner Insight, Free Trial, Plus: Win an iPad 2  
**Date:** Friday, March 25, 2011 11:03:37 AM

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Kind regards

Kasey Cassells  
e-Editor  
IDG Connect

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**From:** [Ader, Charles](#)  
**To:** [Cheok, Michael](#); [Gibson, Kathy](#); [Scott, Michael](#); [Ruland, William](#); [Coe, Doug](#)  
**Cc:** [Balarabe, Sarah](#); [Penny, Melissa](#); [Lombard, Mark](#)  
**Subject:** WEEKLY COUNTERPARTS CALL NEXT WEEK  
**Date:** Friday, March 25, 2011 11:22:43 AM

---

Mark Lombard and I will be at a NRO SES Pre-retreat meeting all of Monday afternoon, March 28, so will not be available to participate in the weekly counterparts call. We will also be out on Tuesday and Wednesday at the NRO Retreat. If there are any items that we need to discuss, let me know. Monday morning or Tuesday Morning will be the best times.

AG/1097

**Kauffman, John**

---

**From:** Lane, John  
**Sent:** Friday, March 25, 2011 11:25 AM  
**To:** Kauffman, John  
**Subject:** weekly

This Week:

Data:

3-day CCF Workshop with INL

N6891 Fire Database—incremental funding

Next Week

GI-193 Review of Purdue Report

Data presentation to NRR @ branch meeting

**From:** Knowledge Management Conference & Expo  
**To:** Case, Michael  
**Subject:** Last Day To Save \$200!  
**Date:** Friday, March 25, 2011 11:27:08 AM

Last Chance to Save!



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### KEYNOTE SPEAKERS:

#### John Berry



Director of the United States Office of Personnel Management

#### Dr. David Bray



Executive for Architecture and Technology, Office of the Program Manager, Information Sharing Environment (PM-ISE)

#### Dr. Karen Stephenson



President, NetForm International

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AG/1099



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**From:** [Brown, Frederick](#)  
**To:** [Karagiannis, Harriet](#); [Case, Michael](#)  
**Cc:** [Cruz, Holly](#); [Jimenez, Manuel](#); [Pedersen, Roger](#); [Shoop, Undine](#)  
**Subject:** RE: Request for NRR/DIRS Concurrence (Division) for RG 8.4, "Personnel Monitoring Device-Direct-Reading Pocket Dosimeters"  
**Date:** Friday, March 25, 2011 11:36:13 AM  
**Attachments:** [image001.png](#)

---

NRR concurs.

---

**From:** Shoop, Undine  
**Sent:** Friday, March 25, 2011 9:34 AM  
**To:** Brown, Frederick  
**Cc:** Cruz, Holly; Jimenez, Manuel; Pedersen, Roger  
**Subject:** FW: Request for NRR/DIRS Concurrence (Division) for RG 8.4, "Personnel Monitoring Device-Direct-Reading Pocket Dosimeters"

Fred,

We recommend concurrence with the attached comments. Please send concurrence to Mike Case and cc Harriet Karagiannis.

Thanks,

Undine

---

**From:** Cruz, Holly  
**Sent:** Monday, March 21, 2011 11:17 AM  
**To:** Shoop, Undine  
**Subject:** Request for NRR/DIRS Concurrence (Division) for RG 8.4, "Personnel Monitoring Device-Direct-Reading Pocket Dosimeters"

Undine,

I apologize, I missed this one when you had your staff look at RG 8.2. Please find the attached request for NRR concurrence on RG 8.4. I believe Roger Pedersen was previously involved, but due to substantial NRO changes, RES is asking for us to concur again. They had asked for concurrence by the end of this week (3/25), but due to the delay in sending, please advise if your staff could review by 4/4/11.

Thanks for your help,

Holly

Holly Cruz, Project Manager  
Licensing Processes Branch (PLPB)  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation  
Phone: (301) 415-1053  
Location: O12F12  
M/S: O12E1  
email: [holly.cruz@nrc.gov](mailto:holly.cruz@nrc.gov)

AG/1100



---

**From:** Karagiannis, Harriet  
**Sent:** Monday, March 07, 2011 5:20 PM  
**To:** Cruz, Holly; Siurano-Perez, Osiris; Deegan, George; Schaffer, Steven; Hood, Tanya  
**Cc:** Burrows, Sheryl; Sherbini, Sami; Holahan, Vincent; Pedersen, Roger; Hinson, Charles; DeCicco, Joseph; Naquin, Tyrone; LaVera, Ronald; Roach, Edward  
**Subject:** Concurrence (Division) for RG 8.4, "Personnel Monitoring Device-Direct-Reading Pocket Dosimeters"

Holly/Osiris/Tanya/George/Steve,

The attached PDF file for RG 8.4 is sent to you again for concurrence (Division) because NRO had substantial comments after you concurred. The Comparison version in the attached file provides the new information.

The PDF file includes:

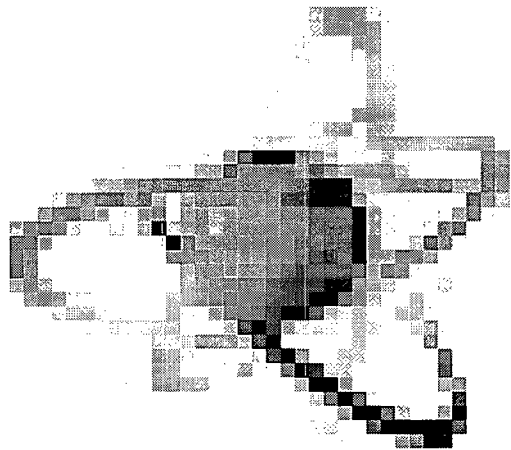
1. Routing Slip
2. Memo requesting Division concurrence
3. RG 8.4 final version
4. Regulatory analysis
5. Responses to public comments
6. Comparison with version published for public comment

Please distribute to appropriate individuals for concurrence/comments by March 25, 2011. The staff members that provided comments for the Draft Regulatory Guide 8.4 were:

1. R. Pedersen, NRR
2. R. LaVera/C. Hinson, NRO
3. T. Naquin, NMSS
4. S. Schaffer/S. Sherbini, RES
5. J. DeCicco/V. Holahan, FSME

You may send your concurrence/comments directly to me and cc your management.

Harriet



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**Beasley, Benjamin**

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 11:44 AM  
**To:** Siu, Carolyn  
**Cc:** Reisifard, Mehdi  
**Subject:** new first page

Carolyn,

I just changed the first page of ML092520029, the memo from me to Brian on Low Priority Generic Issues. Please print the first page on letterhead for me to sign.

Brian has signed the approval, so we are ready to finalize the document. I will bring the package to you in a few minutes. Please coordinate with Mehdi on finalizing.

Thanks!

Ben

**Kauffman, John**

---

**From:** Perkins, Richard  
**Sent:** Friday, March 25, 2011 11:57 AM  
**To:** Kauffman, John  
**Subject:** RE: Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/25/2011. [eom]  
**Attachments:** Weekly 3-25.doc

Attached

---

**From:** Kauffman, John  
**Sent:** Thursday, March 24, 2011 8:16 AM  
**To:** Bensi, Michelle; Ibarra, Jose; Killian, Lauren; Lane, John; Reisifard, Mehdi; Perkins, Richard; Smith, April  
**Subject:** Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/25/2011. [eom]

OEGIB Weekly Input – March 21 – March 25 2011

Richard

- Conducted analysis group meeting to address revisions to PreGI-009 analysis report
- Revised PreGI-009 report
- Distributed report to GI Review Panel members
- Coordination with PreGI-009 submitters
- Prep for upcoming presentations
- Branch meetings

Activities for next week

Schedule and prepare for briefings to GIRP

Receive comments on report from Joe Zable and resolve those

Coordination and discussion with the GI submitters on status

Prepare for joint branch meeting presentation

Work on GI Input form

**From:** [Bone, Alysia](#)  
**To:** [Hurd, Sapna](#); [Eisenberg, Wendy](#)  
**Cc:** [Scott, Harold](#); [Case, Michael](#); [Richards, Stuart](#); [Coyne, Kevin](#); [Wood, Jeffery](#); [Coe, Doug](#); [Correia, Richard](#)  
**Subject:** RE: Regarding Halden Bill  
**Date:** Friday, March 25, 2011 12:12:49 PM

---

Hello all-

Yes, I do expect that we will receive a bill from Halden this year. I confirmed with my management that the understanding is that each Division will contribute to paying the bill, as has been the case in the past, though the actual contribution should be somewhat less than each Division initially budgeted since we paid ahead for this year last September. Please let me know if you have any questions.

Thanks!  
Alysia

---

**From:** Hurd, Sapna  
**Sent:** Friday, March 25, 2011 11:36 AM  
**To:** Eisenberg, Wendy  
**Cc:** Bone, Alysia; Scott, Harold; Case, Michael; Richards, Stuart  
**Subject:** RE: Regarding Halden Bill

Thanks Wendy, and look forward to getting an answer on this one!!

Sapna Hurd  
Management Analyst  
Division of Engineering  
Office of Nuclear Regulatory Research  
U.S. NRC  
Ph: 301-251-7687  
5C04

---

**From:** Eisenberg, Wendy  
**Sent:** Friday, March 25, 2011 11:33 AM  
**To:** Hurd, Sapna  
**Cc:** Bone, Alysia; Scott, Harold  
**Subject:** RE: Regarding Halden Bill

Sapna –

Yes, I believe we should be getting a Halden bill.

Alysia, Harold – we *do* expect a bill from Halden, correct, as we were discussing yesterday.

Do you think the divisions will share the cost, as in the past, or DRA will pay?

AG/1103



Thanks.

---

**From:** Hurd, Sapna  
**Sent:** Friday, March 25, 2011 11:13 AM  
**To:** Eisenberg, Wendy  
**Subject:** Regarding Halden Bill

Hey Wendy,

Would you happen to know whether we are going to be getting a halden bill this year?  
N6290 to be more specific...at least for DE. Thank you!

Sapna Hurd  
Management Analyst  
Division of Engineering  
Office of Nuclear Regulatory Research  
U.S. NRC  
Ph: 301-251-7687  
5C04

**From:** [Brown, Frederick](#)  
**To:** [Case, Michael](#); [Karagiannis, Harriet](#)  
**Cc:** [Cruz, Holly](#); [Shoop, Undine](#); [Pedersen, Roger](#); [Jimenez, Manuel](#)  
**Subject:** FW: Request for NRR/DIRS Concurrence (Division) for RG 8.4, "Personnel Monitoring Device-Direct-Reading Pocket Dosimeters"  
**Date:** Friday, March 25, 2011 12:17:03 PM  
**Attachments:** [image001.png](#)  
[Comments on Regulatory Guide 8-4.docx](#)

---

Sorry, the comments that went with the NRR concurrence.

---

**From:** Shoop, Undine  
**Sent:** Friday, March 25, 2011 9:34 AM  
**To:** Brown, Frederick  
**Cc:** Cruz, Holly; Jimenez, Manuel; Pedersen, Roger  
**Subject:** FW: Request for NRR/DIRS Concurrence (Division) for RG 8.4, "Personnel Monitoring Device-Direct-Reading Pocket Dosimeters"

Fred,

We recommend concurrence with the attached comments. Please send concurrence to Mike Case and cc Harriet Karagiannis.

Thanks,

Undine

---

**From:** Cruz, Holly  
**Sent:** Monday, March 21, 2011 11:17 AM  
**To:** Shoop, Undine  
**Subject:** Request for NRR/DIRS Concurrence (Division) for RG 8.4, "Personnel Monitoring Device-Direct-Reading Pocket Dosimeters"

Undine,

I apologize, I missed this one when you had your staff look at RG 8.2. Please find the attached request for NRR concurrence on RG 8.4. I believe Roger Pedersen was previously involved, but due to substantial NRO changes, RES is asking for us to concur again. They had asked for concurrence by the end of this week (3/25), but due to the delay in sending, please advise if your staff could review by 4/4/11.

Thanks for your help,

Holly

Holly Cruz, Project Manager  
Licensing Processes Branch (PLPB)  
Division of Policy and Rulemaking  
Office of Nuclear Reactor Regulation  
Phone: (301) 415-1053  
Location: O12F12  
M/S: O12E1

AG/1104

**From:** [Ader, Charles](#)  
**To:** [Cheok, Michael](#); [Gibson, Kathy](#); [Scott, Michael](#); [Ruland, William](#); [Coe, Doug](#)  
**Cc:** [Balarabe, Sarah](#); [Penny, Melissa](#); [Lombard, Mark](#)  
**Subject:** Recall: WEEKLY COUNTERPARTS CALL NEXT WEEK  
**Date:** Friday, March 25, 2011 12:22:10 PM

---

Ader, Charles would like to recall the message, "WEEKLY COUNTERPARTS CALL NEXT WEEK".

AG/1105

**From:** Ader, Charles  
**To:** Cheok, Michael; Gibson, Kathy; Scott, Michael; Ruland, William; Coe, Doug  
**Cc:** Balarabe, Sarah; Penny, Melissa; Lombard, Mark  
**Subject:** WEEKLY COUNTERPARTS CALL NEXT WEEK  
**Date:** Friday, March 25, 2011 12:24:09 PM

---

The NRO retreat is Wednesday & Thursday. Monday morning or Tuesday morning are still the best times if there is an issue that we need to discuss.

-----

Mark Lombard and I will be at a NRO SES Pre-retreat meeting all of Monday afternoon, March 28, so will not be available to participate in the weekly counterparts call. We will also be out on ~~Tuesday~~ and Wednesday and Thursday at the NRO Retreat. If there are any items that we need to discuss, let me know. Monday morning or Tuesday Morning will be the best times.

AG/1106

**From:** Leeds, Eric *MLK*  
**To:** MARION, Alex  
**Cc:** Holahan, Patricia  
**Subject:** Query: How often should we expect info  
**Date:** Friday, March 25, 2011 12:33:00 PM

---

Alex –

*PEL*  
How often should we expect info from the licensees on what they are detecting at their sites – once a day, a couple of times a day??

We will provide a contact point shortly. Thanks!

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

*AG/1107*

**Kauffman, John**

---

**From:** Siu, Carolyn  
**Sent:** Friday, March 25, 2011 12:41 PM  
**To:** RES\_DRA\_OEGIB; RES\_DRA\_ETB  
**Subject:** Printing timecards, please do not edit your time.

**Carolyn Siu**

Fiction reveals truths that reality obscures.

Division line: 301-251-7430

Direct line: 301-251-7568


Fax: 301-251-7424


Email: [Carolyn.Siu@nrc.gov](mailto:Carolyn.Siu@nrc.gov)


AG/1108


From: [ManageBetter.biz Insider](#)  
To: [Leeds, Eric](#)  
Subject: Improve staffers' problem-solving; Bar cliques from teams; Discipline? Try mediation; and more ...  
Date: Friday, March 25, 2011 12:56:10 PM


RUEL

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If you want to keep your team productive and healthy, you have to keep the "in crowd" from taking over...  
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2 - 3:15 p.m. Central

## FEATURED BLOGGER:

**K.J. McCorry** is the CEO of  **Efficiency Enterprises @ Inc.**, a professional productivity, efficiency and sustainability consulting company based out of Boulder, Colorado. K.J.'s work in office process simplification has been recognized locally and nationally in the *New York Times*, *International Herald Tribune*, *Chicago Tribune*, *Real Simple*, *Better Homes & Gardens* with TV and radio appearances on the *Do It Yourself Network*, *The Peter Boyles Show*, and *World Talk Radio*. She is also the author of *Organize Your Work Day In No Time*, released in April 2005 by *Que Publishing*. She is currently working on her second book on becoming a 'paperless' office.

## BECOME A MEMBER

**Leading for Results** 

AG/1109

## PowerPoint Presentation Tip for Spanish-Speaking Audience Members

I recently delivered a presentation skills training program to a group of urologists from Mexico, Central and South America - with the training conducted in New York. These physicians mostly present slides in Spanish, and they taught me a few...

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Experience may be a legitimate factor, but it shouldn't be the only one you use...
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pmsguid:1aojhtbi.0thk



## Beasley, Benjamin

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 12:58 PM  
**To:** Khanna, Meena; Stutzke, Martin  
**Subject:** RE: Revised GI-199 Q&A

Regarding "Information requested in the GL will likely require 3 to 6 months for nuclear plant licensees to prepare." We expect that it will take licensees longer than 6 months to prepare their response, unless they start before the GL is issued. A prudent approach may be to not discuss how long it will take someone else to do something. If we are to specify a deadline, then that would be appropriate for us to discuss.

Otherwise, it looks fine.

Ben

---

**From:** Khanna, Meena  
**Sent:** Friday, March 25, 2011 12:51 PM  
**To:** Stutzke, Martin  
**Cc:** Beasley, Benjamin  
**Subject:** FW: Revised GI-199 Q&A  
**Importance:** High

Any comment? Sorry for the multiple requests..thanks

---

**From:** Burnell, Scott  
**Sent:** Friday, March 25, 2011 12:26 PM  
**To:** Khanna, Meena; Hiland, Patrick; Manoly, Kamal  
**Cc:** Anderson, Brian  
**Subject:** Revised GI-199 Q&A  
**Importance:** High

All;

Is this revised answer to the GL question acceptable?

---

7. What happens next with GI-199?

The NRC is developing a Generic Letter (GL) to request information from all 104 U.S. nuclear plants. The GL is planned to be issued in draft form to support a public meeting in late Spring 2011. In addition, in accordance with its internal review processes, the NRC will also present the GL to the Committee for Review of Generic Requirements and the Advisory Committee on Reactor Safeguards (ACRS) ~~both before and after the public comment period~~. In addition, the draft GL will be issued for formal public comment in late Summer 2011. The GL is planned to be issued by end of 2011, near the time when new seismic models become available. These new seismic models are being developed by NRC, DOE, and EPRI. In addition the USGS will review the model. Information requested in the GL will likely require 3 to 6 months for nuclear plant licensees to prepare. NRC's review will be on-going as information is collected, ~~with an initial focus on the 27 CEUS plants where the screening called for additional analysis~~. Based on NRC's review of that information, a determination will be made regarding potential changes at nuclear plants based on cost beneficial backfit.

---

---

We need to resolve this by 1 p.m. Thanks.

Scott

**From:** [Siu, Carolyn](#)  
**To:** [Reisifard, Mehdi](#); [Kauffman, John](#); [Beasley, Benjamin](#); [Coe, Doug](#); [Correia, Richard](#); [Ader, Charles](#); [McGinty, Tim](#); [Uhle, Jennifer](#); [Case, Michael](#); [ODriscoll, James](#); [Rosenberg, Stacey](#); [Jackson, Christopher](#); [Gibson, Kathy](#); [Purnell, Blake](#)  
**Cc:** [RidsResOd Resource](#)  
**Subject:** Low Priority Generic Issues  
**Date:** Friday, March 25, 2011 1:12:37 PM  
**Attachments:** [Memo.docx](#)  
[Enclosure.docx](#)  
[Email.rtf](#)  
[Memo Concurrence Recommendation Summary.doc](#)  
[ML092520025.APK](#)

---

If you have any questions or comments, please contact Mehdi Reisi Fard or John Kauffman at 301-251-7490 or 301-251-7465, respectively.

## Carolyn Siu

Fiction reveals truths that reality obscures.

Division line: 301-251-7430

Direct line: 301-251-7568

Fax: 301-251-7424

Email: [Carolyn.Siu@nrc.gov](mailto:Carolyn.Siu@nrc.gov)

ACG/1111

March 17, 2011

MEMORANDUM TO: Brian W. Sheron, Director  
Office of Nuclear Regulatory Research

FROM: Benjamin G. Beasley, Chief */RA/*  
Operating Experience and Generic Issues Branch  
Division of Risk Assessment  
Office of Nuclear Regulatory Research

SUBJECT: LOW PRIORITY GENERIC ISSUES

#### PURPOSE

The purpose of this memorandum is to obtain approval for changing the status of 13 Generic Issues (GIs) with a priority ranking of LOW and dropping these GIs from further pursuit. These LOW priority issues were prioritized in accordance with the legacy program procedures. Therefore, these issues need to be addressed for consistency with the improvements to the GI program described in NRC Management Directive (MD) 6.4, "Generic Issues Program."

#### BACKGROUND

The U.S. Nuclear Regulatory Commission (NRC) identifies (by its assessment of plant operation) certain issues with the potential to affect public health and safety, the common defense and security, or the environment that could affect multiple entities under NRC jurisdiction. Under the GI program, resolution of these GIs is documented and tracked. The resolution of these issues may need no action or may involve new or revised rules, new or revised guidance, or revised interpretation of rules or guidance that affect nuclear power plant licensees, nuclear material certificate holders, or holders of other regulatory approvals.

From 1983 to 1999, the GI program consisted of six separate and distinct steps: identification, prioritization, resolution, imposition, implementation, and verification. The primary purpose of prioritization was to assist in the timely and efficient allocation of resources to those safety issues that had a high potential for reducing risk. Moreover, prioritization helped the staff in identifying issues that could be removed from further consideration because of their low safety significance. NUREG-0933, "Resolution of Generic Safety Issues," contains a description of the process and results of the resolution of each GI prioritized and resolved under the GI program. Prioritization of issues resulted in one of the four priority rankings of HIGH, MEDIUM, LOW, or DROP.

CONTACTS: Mehdi Reisi Fard, RES/DRA  
301-251-7490

John Kauffman, RES/DRA  
301-251-7465

Table III of NUREG-0933 summarizes and tabulates by group the results of the prioritization and resolution of all issues. As shown in Table III, 13 GIs (10 GIs in Three Mile Island Action Plan items and 3 GIs in New Generic Issues) were given a LOW priority ranking. The Enclosure to this memorandum presents a historical background and a review for each of these issues. The following table provides a list of the 13 LOW priority ranking issues in the GI program.

**List of Generic Issues with a Low Safety Priority Ranking**

Action Plan Item/Issue Number	Title
I.F.2(1)	Assure the Independence of the Organization Performing the Checking Function
I.F.2(4)	Establish Criteria for Determining QA Requirements for Specific Classes of Equipment
I.F.2(5)	Establish Qualification Requirements for QA and QC Personnel
I.F.2(7)	Clarify that the QA Program Is a Condition of the Construction Permit and Operating License
I.F.2(8)	Compare NRC QA Requirements with Those of Other Agencies
I.F.2(10)	Clarify Requirements for Maintenance of "As-Built" Documentation
I.F.2(11)	Define Role of QA in Design and Analysis Activities
III.D.2.1(1)	Evaluate the Feasibility and Perform a Value-Impact Analysis of Modifying Effluent-Monitoring Design Criteria
III.D.2.1(2)	Study the Feasibility of Requiring the Development of Effective Means for Monitoring and Sampling Noble Gases and Radioiodine Released to the Atmosphere
III.D.2.1(3)	Revise Regulatory Guides
81	Impact of Locked Doors and Barriers on Plant and Personnel Safety
127	Maintenance and Testing of Manual Valves in Safety-Related Systems
167	Hydrogen Storage Facility Separation

NUREG-0933 states that a LOW priority ranking meant that no safety concerns demanding at least MEDIUM-priority attention were involved, and little or no prospect of safety improvements existed that was both substantial and worthwhile. LOW priority rankings required the approval of the responsible Office Director and signified that the issue had been eliminated from further pursuit. However, Staff Requirements Memorandum 871021A directed the staff to conduct periodic reviews of existing LOW priority GIs to determine whether any new information was available that would necessitate reassessment of the original prioritization evaluations. Periodic reviews of LOW priority issues have been documented in NUREG-0933.

Beginning in June 1999, all candidate GIs identified were subjected to the process delineated by MD 6.4. The above method of prioritizing GIs was replaced with the screening process of MD 6.4, and the staff discontinued using priority rankings.

As a part of the transition to MD 6.4, NRC staff is updating NUREG-0933 to reflect improvements in the GI program described in MD 6.4 and to organize the historical information

regarding the prioritization and resolution of GIs. As part of this update the remaining 13 LOW priority issues that were prioritized in accordance to the legacy GI program guidelines prior to publication of MD 6.4 should receive a final disposition in the updated NUREG-0933.

## DISCUSSION

Staff has evaluated each of the 13 LOW priority ranking issues to confirm that the issues are addressed by current regulatory requirements, guidance, or oversight and that operating experience has not indicated a change in the significance of these issues. Moreover, periodic reviews of existing LOW priority issues did not result in any changes to the status of these issues. Based on the review of the LOW priority ranking issues, the staff recommends changing their status to DROPPED from further pursuit. The Enclosure to this memorandum presents a historical background of each issue along with the staff's evaluation.

By changing the status of the LOW priority ranking issues, these issues will no longer be periodically assessed under the GI program. However, under the operating experience program, the staff systematically collects, communicates, and evaluates domestic and international reactor operating experience. Issues identified by operating experience or other oversight processes related to these 13 issues may continue to be proposed as generic issues.

The enclosed evaluations, along with existing historical information regarding identification, prioritization, and resolution of these former LOW priority ranking issues as well as other generic issues resolved under GI program, will be maintained in NUREG-0933.

Enclosure:  
As Stated

Approved:           /RA/           Date: 3/17/11  
Brian W. Sheron, Director  
Office of Nuclear Regulatory Research

regarding the prioritization and resolution of GIs. As part of this update the remaining 13 LOW priority issues that were prioritized in accordance to the legacy GI program guidelines prior to publication of MD 6.4 should receive a final disposition in the updated NUREG-0933.

**DISCUSSION**

Staff has evaluated each of the 13 LOW priority ranking issues to confirm that the issues are addressed by current regulatory requirements, guidance, or oversight and that operating experience has not indicated a change in the significance of these issues. Moreover, periodic reviews of existing LOW priority issues did not result in any changes to the status of these issues. Based on the review of the LOW priority ranking issues, the staff recommends changing their status to DROPPED from further pursuit. The Enclosure to this memorandum presents a historical background of each issue along with the staff's evaluation.

By changing the status of the LOW priority ranking issues, these issues will no longer be periodically assessed under the GI program. However, under the operating experience program, the staff systematically collects, communicates, and evaluates domestic and international reactor operating experience. Issues identified by operating experience or other oversight processes related to these 13 issues may continue to be proposed as generic issues.

The enclosed evaluations, along with existing historical information regarding identification, prioritization, and resolution of these former LOW priority ranking issues as well as other generic issues resolved under GI program, will be maintained in NUREG-0933.

Enclosure:  
As Stated

Approved:                     /RA/                     Date: 3/17/11  
Brian W. Sheron, Director  
Office of Nuclear Regulatory Research

**DISTRIBUTION:**

J. Uhle, RES	M. Case, RES	J. O'Driscoll, NRO
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**ADAMS Accession No.: ML092520025**

OFFICE	RES/DRA/OEGIB	Tech Editor	RES/DRA/OEGIB	RES/DRA/OEGIB
NAME	M. ReisiFard	J. Zabel (via email)	J. Kauffman	B. Beasley
DATE	6/11/10	6/2/10	6/11/10	6/11/10
OFFICE	RES/DRA	NRO	NRR	
NAME	C. Lui	C. Ader (via email)	T. McGinty (via email)	
DATE	2/10/11	3/7/11	3/1/11	

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## **Low-Priority Generic Issues**

From 1983 to 1999, the Generic Issues (GI) program consisted of six separate and distinct steps: identification, prioritization, resolution, imposition, implementation, and verification. During this time, four priority rankings were used in the prioritization step: HIGH, MEDIUM, LOW, and DROP. A LOW-priority ranking meant that no safety concerns demanding at least MEDIUM-priority attention were involved and that little or no prospect existed for safety improvements that were both substantial and worthwhile. When the prioritization process resulted in a LOW-priority ranking for an issue, approval of this ranking by the responsible Office Director signified that the issue had been eliminated from further pursuit. However, in accordance with Staff Requirements Memorandum 871021A, the staff has periodically conducted a review of the LOW-priority generic issues to determine whether any new information existed that would necessitate reassessment of the original prioritization evaluations.

Staff completed a final review of the LOW-priority issues in August 2010. For disposition of the LOW-priority issues, staff evaluated each of the remaining 13 LOW priority ranking issues to confirm that 1) these issues are addressed by current U.S. Nuclear Regulatory Commission's (NRC's) regulatory requirements, guidance, or oversight and 2) the operating experience has not indicated a change in the safety significance of these issues. Based on the reviews and evaluations of the LOW priority ranking issues documented in this report, staff recommends changing the status of remaining LOW-priority issues and dropping them from further pursuit. By changing the status of the LOW priority ranking issues, these issues will no longer be periodically assessed.

For each issue, a historical background of the identification and prioritization of the issue is presented. After the historical background, an overview of the NRC regulatory framework and any relevant operating experience related to the issues are discussed. Finally, a discussion is provided to demonstrate the application of the NRC regulatory framework to each issue and to support its disposition.



## **1. ITEM I.F.2: DEVELOP MORE DETAILED QA CRITERIA**

### **1.1 Overview**

Item I.F.2, "Develop More Detailed QA Criteria," of the TMI Action Plan was proposed to improve the quality assurance (QA) program for plants' design, construction, and operations. Item I.F.2 consists of 11 detailed QA criteria, which established 11 generic issues under Item I.F.2. Four of these issues were RESOLVED when new requirements were established with changes made in July 1981 to Chapter 17 of the Standard Review Plan (SRP) and the remaining seven items were given a LOW-priority ranking in the main report of NUREG-0933, published in November 1983. Staff conducted a review of the remaining seven issues in 2010 to determine whether any new information would necessitate reassessment of original prioritization evaluations. Staff determined that the operating experience has not indicated a change in the safety significance of these issues. In addition, staff verified that the current NRC regulatory requirements or guidance address these issues and identified applicable regulatory framework as presented below. Because these items have been addressed by the existing regulations and the operating experience has not raised the significance of these issues, the NRC staff recommends changing the status of these items and dropping them from further pursuit.

Item I.F.2 (1): Assure the Independence of the Organization Performing the Checking Function

Related regulatory framework: 10 CFR 50.34(f)(3)(iii)(A) and Section 17.5 of the SRP.

Item I.F.2 (4): Establish Criteria for Determining QA Requirements for Specific Classes of Equipment

Related regulatory framework: Criterion II, "Quality Assurance Program," of 10 CFR Part 50, Appendix B, and the following Subparts of ASME NQA-1-1994 Edition: Subpart 2.4, "Installation, Inspection, and Testing Requirements for Power, Instrumentation, and Control Equipment at Nuclear Facilities," Subpart 2.5, "Quality Assurance Requirements for Installation, Inspection, and Testing of Structural Concrete, Structural Steel, Soils, and Foundations for Nuclear Power Plants," Subpart 2.7, "Quality Assurance Requirements of Computer Software for Nuclear Facility Applications," Subpart 2.8, "Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems for Nuclear Power Plants."

Item I.F.2 (5): Establish Qualification Requirements for QA and QC Personnel

Related regulatory framework: Criterion II, "Quality Assurance Program," of 10 CFR Part 50 Appendix B, Regulatory Guide (RG) 1.8, "Qualification and Training of Personnel for Nuclear Power Plants," Revision 3, 10 CFR 50.34(f)(3)(iii)(E), and Section 17.5 of the SRP.

Item I.F.2 (7): Clarify That the QA Program Is a Condition of the Construction Permit and Operating License

Related regulatory framework: 10 CFR 50.54(a)(1), 10 CFR 52.17(a)(1)(xi), 10 CFR 52.47(a)(19), 10 CFR 52.79(a)(25), 10 CFR 50.54(a)(4), 10 CFR 50.54(a)(4)(i)-(iv), and Section 17.5 of the SRP.

Item I.F.2 (8): Compare NRC QA Requirements with Those of Other Agencies

SECY-03-0117, "Approaches for Adopting More Widely Accepted International Quality Standards," July 9, 2003.

Item I.F.2 (10): Clarify Requirements for Maintenance of "As-Built" Documentation

Related Regulatory Framework: Criterion VI, "Document Control," and Criterion XVII, "Quality Assurance Records," of 10 CFR Part 50, Appendix B, ANSI/ASME-NQA-1, 10 CFR 50.34(f)(3)(iii)(G), and Section 17.5 of the SRP.

Item I.F.2 (11): Define Role of QA in Design and Analysis Activities

Related Regulatory Framework: Criterion III, "Design Control," of 10 CFR Part 50, Appendix B, 10 CFR 50.34(f)(3)(iii)(H), and Section 17.5 of the SRP.

Section 1.2 describes a historical background of the identification and prioritization of these issues. Section 1.3 presents an overview of the NRC regulatory framework for QA. Finally, in Section 1.4 a discussion is provided to demonstrate the application of the NRC regulatory framework for QA to each issue and to support their disposition.

## **1.2 Background**

### **1.2.1 Description**

The overall objective of this Three Mile Island (TMI) Action Plan<sup>1</sup> item was the improvement of the quality assurance (QA) program for design, construction, and operations to provide greater assurance that plant design, construction, and operational activities were conducted in a manner commensurate with their importance to safety. Several systems important to the safety of TMI-2 were not designed, fabricated, and maintained at a level equivalent to their safety importance. This condition existed at other plants and resulted primarily from the lack of clarity in NRC guidance. This situation and other problems relating to the QA organization, authority, reporting, and inspection were identified by the various TMI accident investigations and inquiries.<sup>1</sup>

The intent of this item was to provide more explicit and detailed criteria concerning the elements that, in general, were found in well-conducted QA programs. Providing these more detailed criteria was expected to result in the establishment of QA programs of the caliber desired. As stated in NUREG-0933, "Resolution of Generic Safety Issues,"<sup>2</sup> implementation of such programs would result in the detection of deficiencies in design, construction, and operation.

### 1.2.2 Possible Solutions

In NUREG-0933<sup>2</sup>, staff proposed more detailed QA criteria for design, construction, and operations with the following considerations:

- (1) Assure the independence of the organization performing the checking functions from the organization responsible for performing the tasks. For the construction phase, consider options for increasing the independence of the QA function. Include an option to require that licensees perform the entire quality assurance/quality control (QA/QC) function at construction sites. Consider using the third-party concept for accomplishing the NRC review and audit and making the QA/QC personnel agents of NRC. Consider using the Institute of Nuclear Power Operations to enhance QA/QC independence.
- (2) Include the QA personnel in the review and approval of plant operational maintenance and surveillance procedures and quality-related procedures associated with design, construction, and installation.
- (3) Include the QA personnel in all activities involved in design, construction, installation, preoperational and startup testing, and operation.
- (4) Establish criteria for determining QA requirements for specific classes of equipment such as instrumentation, mechanical equipment, and electrical equipment.
- (5) Establish qualification requirements for QA and QC personnel.
- (6) Increase the size of the licensees' QA staff.
- (7) Clarify that the QA program is a condition of the construction permit and operating license and that substantive changes to an approved program must be submitted to NRC for review.
- (8) Compare NRC QA requirements with those of other agencies (i.e., NASA, FAA, DOD) to improve NRC requirements.
- (9) Clarify organizational reporting levels for the QA organization.
- (10) Clarify requirements for maintenance of "as built" documentation.
- (11) Define the role of QA in design and analysis activities. Obtain views on prevention of design errors from licensees, architect-engineers, and vendors.

### 1.2.3 Priority Determination

A priority determination was made of the benefit of the above 11 items in improving QA.

Staff stated in NUREG-0933<sup>2</sup> that "while the QA improvement program could result in the establishment of an improved QA organizational structure at many plants, the results

depended heavily upon management acceptance. Lack of program implementation and management acceptance, rather than inadequate criteria as suggested by this issue, were the primary causes of deficiencies in QA. Increasing the detail of the QA criteria had little potential for improving the quality of design, construction, or operation and, therefore, risk." Items I.F.2(2), I.F.2(3), I.F.2(6), and I.F.2 (9), which addressed the concern stated above, were RESOLVED and included in the July 1981 revision to Chapter 17 of the SRP.<sup>3</sup>

It was believed that the issue of QA in nuclear power plants should be a high priority. However, the issue and solutions to QA deficiency as described herein (except for the completed issues I.F.2(2), I.F.2(3), I.F.2(6) and I.F.2(9)) failed to address the problem of management acceptance of QA programs. Hence, the residual items (I.F.2(1), I.F.2(4), I.F.2(5), I.F.2(7), I.F.2(8), I.F.2(10), I.F.2(11)) were given a low priority.

### **1.3 NRC Regulatory Framework**

#### **1.3.1 Regulatory Background**

The regulatory framework for quality assurance is established by 10 CFR Part 50 Appendix B.<sup>4</sup> The 18 criteria of Appendix B<sup>4</sup> are implemented through quality assurance program descriptions, regulatory guides, and consensus standards such as ANSI N45.2,<sup>5</sup> "Quality Assurance Requirements for Nuclear Facilities," and ASME NQA-1, "Quality Assurance Requirements for Nuclear Facility Applications."<sup>6</sup> Regulatory Guide 1.28, "Quality Assurance Program Requirements (Design and Construction),"<sup>7</sup> describes a method acceptable to the NRC staff for complying with the provisions of Appendix B<sup>4</sup> with regard to establishing and implementing the requisite quality program. It states that ASME/ANSI NQA-1-1983<sup>6</sup> is an acceptable method for complying with the pertinent quality requirements of Appendix B.<sup>4</sup>

Since the late 1980s, the staff has completed several initiatives to improve the efficiency and effectiveness of the regulatory framework for quality assurance. In 1989, the staff issued Generic Letter (GL) 89-02, "Actions to Improve the Detection of Counterfeit and Fraudulently Marketed Products,"<sup>8</sup> and in 1991, GL 91-05, "Licensee Commercial Grade Procurement and Dedication Programs."<sup>9</sup> These generic letters documented the staff's position on the process for the procurement and dedication of commercial-grade items. In GL 89-02,<sup>8</sup> the staff conditionally endorsed the June 1988 EPRI NP-5652, "Guideline for the Utilization of Commercial-Grade Items in Safety Related Applications (NCIG-07)."<sup>10</sup> Historically, the commercial-grade dedication process has proven to be an effective method for procuring items from the commercial market and demonstrating their suitability for use in safety-related applications.

In the early 1990s, the staff facilitated the change-control process for administrative controls described in RG 1.33, "Quality Assurance Program Requirements (Operation),"<sup>11</sup> by allowing these controls to be relocated from the technical specifications to the quality assurance program. In 1998, the staff issued RG 1.176, "An Approach for Plant-Specific, Risk-Informed Decision Making: Graded Quality Assurance,"<sup>12</sup> that defines a method acceptable to the staff for grading the requirements of Appendix B.<sup>4</sup> Subsequently, the staff recommended in SECY-98-300, "Options for Risk-Informed Revisions to 10 CFR Part 50, Domestic Licensing of Production and Utilization Facilities,"<sup>13</sup> that risk-informed approaches to the application of special

treatment requirements be developed. In November 2004, NRC promulgated 10 CFR 50.69, "Risk-informed categorization and treatment of structures, systems, and components for nuclear power reactors," to permit power reactor licensees and license applicants to implement an alternative regulatory framework with respect to "special treatment" where special treatment refers to those requirements that provide increased quality assurance beyond normal industrial practices that structures, systems, and components (SSCs) perform their design-basis functions. In support of 10 CFR 50.69, the staff issued RG 1.201, "Guidelines for Categorizing Structures, Systems and Components in Nuclear Power Plants According to Their Safety Significance,"<sup>14</sup> in January 2006 for trial use. The staff withdrew RG 1.176 after publishing the new framework, consisting of the rule along with RG 1.201.<sup>14</sup>

In 1999, the Commission amended 50.54(a) to allow licensees to make certain changes to their quality assurance programs without prior NRC review. This includes changes such as the use of a QA standard approved by NRC that is more recent than the QA standard in the licensee's current QA program, the use of a quality assurance alternative or exception approved by an NRC safety evaluation (provided that the basis of the NRC approval is applicable to the licensee's facility), and generic organizational changes. The number of license amendments and changes to QA programs has declined as a result of these initiatives. In a Nuclear Energy Institute (NEI) August 15, 2000, letter to the staff, NEI stated, "The direct final rule was promulgated 13 months prior to the workshop, providing adequate time for the industry to ascertain the short-term worth of the rule in reducing unnecessary burden while maintaining the integrity of a comprehensive QA program. It was evident to the industry participants during the course of the workshop that the direct final rule has been beneficial. A separate rulemaking on 10 CFR 50.54(a) is not needed since QA special treatment requirements are being addressed under the Risk-Informing Part 50, Option 2 initiative."

The NRC staff has reviewed risk-informed applications in many areas. In this respect, the staff has been successful in developing and implementing a regulatory means for factoring risk insights into the current regulatory framework. In addition, the staff has taken steps to reduce the scope of equipment subject to the requirements of Appendix B.<sup>4</sup> Appendix B<sup>4</sup> contains provisions for applying a graded approach to quality assurance according to a component's importance to safety. The process explained in 10 CFR 50.69 recognizes that components may differ in importance and implements a graded approach based on a risk-informed categorization process. This approach significantly reduces the scope of SSCs subject to special treatment requirements including QA programmatic requirements.

### 1.3.2 QA Program Commitments (RG and GLs)

As stated in Section 17.5 of the SRP,<sup>3</sup> "Quality Assurance Program Description - Design Certification, Early Site Permit and New License Applicants," applicants or holders commit to the most recent revision of the RGs and GLs listed below.

- a. RG 1.26, "Quality Group Classifications and Standards for Water-Steam-, and Radioactive-Waste-Containing Components of Nuclear Power Plants" (03/2007).<sup>15</sup>
- b. RG 1.29, "Seismic Design Classification."<sup>16</sup>

- c. RG 1.37, "Quality Assurance Requirements for Cleaning of Fluid Systems and Associated Components of Water-Cooled Nuclear Power Plants," Revision 1 (03/2007).<sup>17</sup>
- d. GL 89-02, "Actions to Improve the Detection of Counterfeit and Fraudulently Marked Products."<sup>8</sup>
- e. GL 91-05, "Licensee Commercial-Grade Dedication Programs"<sup>9</sup>

Exceptions or alternatives to the specific criteria in any of these RGs and GLs may be proposed by applicants or holders provided adequate justification is provided.

### 1.3.3 QA Program Commitments (Standards)

In addition to RGs and GLs listed above, applicants or license holders commit to the standards listed below. Exceptions or alternatives to the specific criteria in any of these standards may be proposed by applicants or license holders provided adequate justification is provided.

- a. Subpart 2.2, "Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Nuclear Power Plants," ASME NQA-1-1994 Edition.<sup>6</sup>
- b. Subpart 2.4, "Installation, Inspection, and Testing Requirements for Power, Instrumentation, and Control Equipment at Nuclear Facilities," ASME NQA-1-1994 Edition.<sup>6</sup>
- c. Subpart 2.5, "Quality Assurance Requirements for Installation, Inspection, and Testing of Structural Concrete, Structural Steel, Soils, and Foundations for Nuclear Power Plants," ASME NQA-1-1994 Edition.<sup>6</sup>
- d. Subpart 2.7, "Quality Assurance Requirements of Computer Software for Nuclear Facility Applications," ASME NQA-1-1994 Edition.<sup>6</sup>
- e. Subpart 2.8, "Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems for Nuclear Power Plants," ASME NQA-1-1994 Edition.<sup>6</sup>
- f. Subpart 2.15, "Quality Assurance Requirements for Hoisting, Rigging, and Transporting Items for Nuclear Power Plants," ASME NQA-1-1994 Edition.<sup>6</sup>
- g. Subpart 2.20, "Quality Assurance Requirements for Subsurface Investigations for Nuclear Power Plants," ASME NQA-1-1994 Edition.<sup>6</sup>
- h. Nuclear Information and Records Management Association, Inc. (NIRMA) Technical Guide (TG) 11-1998, "Authentication of Records and Media."<sup>18</sup>
- i. NIRMA TG 15-1998, "Management of Electronic Records."<sup>19</sup>

- j. NIRMA TG 16-1998, "Software Configuration Management and Quality Assurance."<sup>20</sup>
- k. NIRMA TG 21-1998, "Electronic Records Protection and Restoration."<sup>21</sup>
- l. Section 4, "Storage, Preservation, and Safekeeping," of Supplement 17S-1, "Supplementary Requirements for Quality Assurance Records," NQA-1-1994 Edition.<sup>6</sup>

1.3.4 Publications

The following tables provide a list of NRC publications related to the QA program.

**Table 1.1. List of Regulatory Guides Related to the QA Program**

Guide Number	Title	Rev.	Publish Date	Last Evaluation
1.26	Quality Group Classifications and Standards for Water-, Steam-, and Radioactive-Waste-Containing Components of Nuclear Power Plants	4	<u>03/2007</u>	03/2007
1.28	Quality Assurance Program Requirements (Design and Construction)	3	<u>08/1985</u>	06/2009
1.29	Seismic Design Classification	4	<u>03/2007</u>	03/2007
1.30	Quality Assurance Requirements for the Installation, Inspection, and Testing of Instrumentation and Electric Equipment (Safety Guide 30)	--	<u>08/1972</u>	06/2008
1.33	Quality Assurance Program Requirements (Operation)	2	<u>02/1978</u>	—
1.37	Quality Assurance Requirements for Cleaning of Fluid Systems and Associated Components of Water-Cooled Nuclear Power Plants	1	<u>03/2007</u>	03/2007
1.38	Quality Assurance Requirements for Packaging, Shipping, Receiving, Storage, and Handling of Items for Water-Cooled Nuclear Power Plants	2	<u>05/1977</u>	04/2008
1.94	Quality Assurance Requirements for Installation, Inspection, and Testing of Structural Concrete and Structural Steel During the Construction Phase of Nuclear Power Plants	1	<u>04/1976</u>	04/2008
1.116	Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems	0-R	<u>05/1977</u>	03/2008

**Table 1.2. List of the SRP Sections Related to the QA Program**

<b>Section</b>	<b>Title</b>	<b>Rev.</b>	<b>Date Updated</b>
17.1	Quality Assurance During the Design and Construction Phases	Rev. 2	07/1981
		Rev. 1	02/1979
		Rev. 0	11/1975
17.2	Quality Assurance During the Operations Phase	Rev. 2	07/1981
		Rev. 1	02/1979
		Rev. 0	11/1975
17.3	Quality Assurance Program Description	Rev. 0	08/1990
		Initial Issuance	03/2007
17.4	Reliability Assurance Program (RAP)	Draft Rev. 0	06/1996
		Initial Issuance	03/2007
17.5	Quality Assurance Program Description - Design Certification, Early Site Permit and New License Applicants	Draft Rev. 0	01/2006
		Initial Issuance	03/2007
17.6	Maintenance Rule	Rev. 1	08/2007
		Initial Issuance	03/2007

## **1.4 Assessment and Conclusion**

### **1.4.1 Item I.F.2 (1): Assure the Independence of the Organization Performing the Checking Function**

This item was evaluated in Item I.F.2 and was determined to be a LOW-priority issue in the main report of NUREG-0933,<sup>2</sup> published in November 1983. In 1998, consideration of new information on the lack of independence in the checking function submitted by Region IV in April 1997 did not change this conclusion.<sup>22</sup>

According to 10 CFR 50.34(f)(3)(iii)(A), "each applicant for a light-water-reactor construction permit or manufacturing license whose application was pending as of February 16, 1982" in addition to "each applicant for a design certification, design approval, combined license, or manufacturing license under part 52" of 10 CFR needs to "establish a quality assurance (QA) program based on consideration of: (A) Ensuring independence of the organization performing checking functions from the organization responsible for performing the functions." In addition, Section 17.5 of the SRP<sup>3</sup> states that "the QA program requires independence between the organization performing checking functions from the organization responsible for performing the functions. (This provision applies to DC applicant, ESP, and construction QA programs. This provision is not applicable to design reviews/verifications.)"

The NRC staff concludes that this item has been adequately addressed and therefore recommends changing the status of this issue and dropping this item from further pursuit.



#### 1.4.2 Item I.F.2 (4): Establish Criteria for Determining QA Requirements for Specific Classes of Equipment

This item was evaluated in Item I.F.2 above and was determined to be a LOW-priority issue in the main report of NUREG-0933<sup>2</sup> published in November 1983.

Criterion II, "Quality Assurance Program," of 10 CFR Part 50, Appendix B,<sup>4</sup> states that "The applicant shall identify the structures, systems, and components to be covered by the quality assurance program and the major organizations participating in the program, together with the designated functions of these organizations. The quality assurance program shall provide control over activities affecting the quality of the identified structures, systems, and components, to an extent consistent with their importance to safety." In addition, as discussed earlier, applicants or license holders commit to the standards below that identify requirements for specific classes of equipment.

- Subpart 2.4, "Installation, Inspection, and Testing Requirements for Power, Instrumentation, and Control Equipment at Nuclear Facilities," ASME NQA-1-1994 Edition.
- Subpart 2.5, "Quality Assurance Requirements for Installation, Inspection, and Testing of Structural Concrete, Structural Steel, Soils, and Foundations for Nuclear Power Plants," ASME NQA-1-1994 Edition.
- Subpart 2.7, "Quality Assurance Requirements of Computer Software for Nuclear Facility Applications," ASME NQA-1-1994 Edition.
- Subpart 2.8, "Quality Assurance Requirements for Installation, Inspection, and Testing of Mechanical Equipment and Systems for Nuclear Power Plants," ASME NQA-1-1994 Edition.

Based on the review of NRC's regulations related to this issue presented above, staff concludes that Item I.F.2 (4) is adequately addressed by the existing regulations. Therefore, staff recommends changing the status of Item I.F.2 (4) and dropping this item from further pursuit.

#### 1.4.3 Item I.F.2 (5): Establish Qualification Requirements for QA and QC Personnel

This item was evaluated in Item I.F.2 above and was determined to be a LOW-priority issue in the main report of NUREG-0933<sup>2</sup> published in November 1983.

Criterion II, "Quality Assurance Program," of 10 CFR Part 50 Appendix B<sup>4</sup> establishes requirements for training of the personnel: "The program shall provide for indoctrination and training of personnel performing activities affecting quality as necessary to assure that suitable proficiency is achieved and maintained." In addition, RG 1.8, "Qualification and Training of Personnel for Nuclear Power Plants,"<sup>23</sup> Revision 3, provides guidance that is acceptable to the NRC staff regarding qualifications and training for nuclear power plant personnel. This RG endorses ANSI/ANS-3.1-1993, "Selection, Qualification, and

Training of Personnel for Nuclear Power Plants,"<sup>24</sup> with certain clarifications, additions, and exceptions.

Moreover, 10 CFR 50.34(f)(3)(iii)(E) states that "each applicant for a light-water-reactor construction permit or manufacturing license whose application was pending as of February 16, 1982" in addition to "each applicant for a design certification, design approval, combined license, or manufacturing license under part 52" of 10 CFR needs to "establish a quality assurance (QA) program based on consideration of: ... (E) establishing qualification requirements for QA and QC personnel." Finally, Section 17.5 of the SRP<sup>3</sup> describes the SRP acceptance criteria for "Training and Qualification Criteria - Quality Assurance."

Based on the review of NRC's regulations related to this issue presented above, the staff concludes that Item I.F.2 (5) is adequately addressed by the existing regulations. Therefore, the staff recommends changing the status of Item I.F.2 (5) and dropping this item from further pursuit.

#### 1.4.4 Item I.F.2 (7): Clarify That the QA Program Is a Condition of the Construction Permit and Operating License

This item was evaluated in Item I.F.2 above and was determined to be a LOW-priority issue in the main report of NUREG-0933<sup>2</sup> published in November 1983.

10 CFR 50.54(a)(1) clearly states implementation of the QA program as a condition in every nuclear power reactor operating license issued under 10 CFR 50: "Each nuclear power plant or fuel reprocessing plant licensee subject to the quality assurance criteria in appendix B<sup>4</sup> of this part shall implement, under § 50.34(b)(6)(ii) or § 52.79 of this chapter, the quality assurance program described or referenced in the safety analysis report, including changes to that report. However, a holder of a combined license under part 52 of this chapter shall implement the quality assurance program described or referenced in the safety analysis report applicable to operation 30 days prior to the scheduled date for the initial loading of fuel." In addition, 10 CFR 50.54(a)(1) is also a condition in every combined license issued under 10 CFR 52. Finally, 10 CFR 52.17(a)(1)(xi), 10 CFR 52.47(a)(19), and 10 CFR 52.79(a)(25) outline the QA program requirements for applicants of Early Site Permits (ESP), Standard Design Certifications and Combined Licenses, respectively. SRP<sup>3</sup> Section 17.5 outlines a standardized QA program for DC, ESP, CP, OL and COL applicants and holders.

Moreover, this issue specifies that "substantive changes to an approved program must be submitted to NRC for review." This part of the issue is also addressed by 10 CFR 50.54(a)(4) that states "Changes to the quality assurance program description that do reduce the commitments must be submitted to the NRC and receive NRC approval prior to implementation." 10 CFR 50.54(a)(4)(i)-(iv) outlines the process to make these changes.

Based on the review of NRC's regulations related to this issue presented above, staff concludes that Item I.F.2 (7) is adequately addressed by the existing regulations. Therefore, staff recommends changing the status of Item I.F.2 (7) and dropping this item from further pursuit.

#### 1.4.5 Item I.F.2 (8): Compare NRC QA Requirements with Those of Other Agencies

This item was evaluated in Item I.F.2 above and was determined to be a LOW-priority issue in the main report of NUREG-0933<sup>2</sup> published in November 1983. In July 9, 2009, results of the staff's effort to review international quality assurance standards against the existing 10 CFR Part 50 Appendix B<sup>4</sup> framework were reported by issuance of SECY-03-0117.<sup>25</sup> In addition, approaches for adopting international quality standards for safety-related components in nuclear power plants into the existing regulatory framework were assessed. SECY-03-0117<sup>25</sup> also reviewed existing NRC quality assurance requirements and efforts to improve their effectiveness and efficiency. The staff concluded in SECY-03-0117<sup>25</sup> that considerable actions had already been taken or were in progress to reduce unnecessary regulatory burden on licensees resulting from compliance with Appendix B<sup>4</sup> requirements. In addition, the proposed 50.69 risk-informed rulemaking would provide a more efficient and effective regulatory process while continuing to maintain safety. The staff evaluation of the differences between Appendix B<sup>4</sup> and ISO 9001 is summarized in the attachment to SECY-03-0117.<sup>25</sup>

The staff concludes that the analysis presented in SECY-03-0117<sup>25</sup> has addressed Item I.F.2 (8) adequately. Therefore, the staff recommends changing the status of Item I.F.2 (8) and dropping this item from further pursuit.

#### 1.4.6 Item I.F.2 (10): Clarify Requirements for Maintenance of "As-Built" Documentation

This item was evaluated in Item I.F.2 above and was determined to be a LOW-priority issue in the main report of NUREG-0933<sup>2</sup> published in November 1983.

Criterion VI, "Document Control," and Criterion XVII, "Quality Assurance Records," of 10 CFR Part 50, Appendix B,<sup>4</sup> establish requirements for issuing, identifying, and retrieving QA records. In addition, NRC-accepted practices for the collection, storage, and maintenance of QA records for nuclear power plants, independent storage of spent nuclear fuel and high-level radioactive waste facilities, special nuclear materials, packaging and transportation of radioactive materials, and gaseous diffusion plants are described in ANSI/ASME-NQA-1.<sup>6</sup>

Criterion VI, "Document Control," of 10 CFR Part 50, Appendix B,<sup>4</sup> describes the requirements to control changes in documents: "Measures shall be established to control the issuance of documents, such as instructions, procedures, and drawings, including changes thereto, which prescribe all activities affecting quality. These measures shall assure that documents, including changes, are reviewed for adequacy and approved for release by authorized personnel and are distributed to and used at the location where the prescribed activity is performed. Changes to documents shall be reviewed and approved by the same organizations that performed the original review and approval unless the applicant designates another responsible organization."

Moreover, 10 CFR 50.34(f)(3)(iii)(G) states that "each applicant for a light-water-reactor construction permit or manufacturing license whose application was pending as of February 16, 1982" in addition to "each applicant for a design certification, design approval, combined license, or manufacturing license under part 52" of 10 CFR needs to "establish a quality assurance (QA) program based on consideration of: ... (G)

establishing procedures for maintenance of "as-built" documentation." Finally, Section 17.5 of the SRP<sup>3</sup> states that a "program is required to be established to control the development, review, approval, issue, use, and revision of documents." This section includes as-built drawings as one of the examples of controlled documents: "Examples of controlled documents include design drawings, as-built drawings, engineering calculations ..."

Based on the review of NRC's regulations related to this issue presented above, the staff concludes that Item I.F.2 (10) is adequately addressed by the existing regulations. Therefore, the staff recommends changing the status of Item I.F.2 (10) and dropping this item from further pursuit.

#### 1.4.7 Item I.F.2 (11): Define Role of QA in Design and Analysis Activities

This item was evaluated in Item I.F.2 above and was determined to be a LOW-priority issue in the main report of NUREG-0933<sup>2</sup> published in November 1983.

Criterion III, "Design Control," of 10 CFR Part 50, Appendix B,<sup>4</sup> describes the requirements of the program for the design of items. As explained in this criterion, measures should be established to assure that applicable regulatory requirements and the design basis are correctly translated into specifications, drawings, procedures, and instructions. In addition, these measures should include provisions to assure that appropriate quality standards are specified and included in design documents and that deviations from such standards are controlled. The design control measures provide for verifying or checking the adequacy of design and are applied to items such as the reactor physics, stress, thermal, hydraulic, and accident analyses; compatibility of materials; accessibility for inservice inspection, maintenance, and repair; and delineation of acceptance criteria for inspections and tests.

Moreover, 10 CFR 50.34(f)(3)(iii)(H) states that "each applicant for a light-water-reactor construction permit or manufacturing license whose application was pending as of February 16, 1982" in addition to "each applicant for a design certification, design approval, combined license, or manufacturing license under part 52" of 10 CFR needs to "establish a quality assurance (QA) program based on consideration of: ... (H) providing a QA role in design and analysis activities." Finally, Section 17.5 of the SRP<sup>3</sup> states that "The QA role in design and analysis activities is defined. Design documents are reviewed by individuals knowledgeable and qualified in QA to ensure the documents contain the necessary QA requirements. (This applies to DC applicants, ESP, and construction QA programs.)"

Based on the review of the NRC's regulations related to this issue presented above, the staff concludes that Item I.F.2 (11) is adequately addressed by the existing regulations. Therefore, the staff recommends changing the status of Item I.F.2 (11) and dropping this item from further pursuit.

## **2. ITEM III.D.2.1: RADIOLOGICAL MONITORING OF EFFLUENTS**

### **2.1 Overview**

Item III.D.2.1, "Radiological Monitoring of Effluents," of TMI Action Plan was proposed to improve public radiation protection by providing assurance that all possible accident effluent-release pathways are monitored and that monitors will perform properly under accident conditions. Item III.D.2.1 consists of the following three issues, which were given a LOW-priority ranking in the main report of NUREG-0933 published in 1983. Staff conducted a review of these issues in 2010 to determine whether any new information would necessitate reassessment of original prioritization evaluations. Staff determined that the operating experience has not indicated a change in the safety significance of these issues. In addition, based on the review of NRC's regulations, staff determined that although some specific requirements that were proposed by these issues have not been established, the overall objectives of these issues are met by the existing regulations. Moreover, the low safety significance of the issue does not warrant further actions to evaluate and implement some of the proposed solutions. Based on the review of NRC's regulations related to these issues presented below and the fact that the operating experience has not raised the significance of these issues, staff recommends changing the status of these issues and dropping them from further pursuit.

Item III.D.2.1(1): Evaluate the Feasibility and Perform a Value-Impact Analysis of Modifying Effluent-Monitoring Design Criteria

Related regulatory frame: Criterion 64, "Monitoring radioactivity releases," of 10 CFR Part 50, Appendix A, 10 CFR 50.34(f)(2)(xvii)(E), 10 CFR 50.34(f)(2)(xxviii), 10 CFR 50.34(f)(2)(xxvii), and Section 11.5 of the SRP.

Item III.D.2.1(2): Study the Feasibility of Requiring the Development of Effective Means for Monitoring and Sampling Noble Gases and Radioiodine Released To the Atmosphere

Related regulatory frame: Criterion 64, "Monitoring radioactivity releases," of 10 CFR Part 50; Appendix A, and 10 CFR 50.34(f)(2)(xvii)(E).

Item III.D.2.1(3): Revise Regulatory Guides

RG 1.21, "Measuring, Evaluating, and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste," Rev. 2 (June 2009), Section 11.5 of the SRP (March 2007), and RG 1.97, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident," Rev. 4 (June 2006)

Section 2.2 describes a historical background of the identification and prioritization of radiological monitoring of effluents issues. Section 2.3 presents an overview of the NRC regulatory framework for the radiological effluent control and monitoring. Finally, in

Section 2.4 a discussion is provided to demonstrate the application of the NRC regulatory framework to these issues and to support their disposition.

## 2.2 Background

### 2.2.1 Description

The objective of Task III.D.2 was to improve public radiation protection in the event of a nuclear power plant accident by improving: (1) radioactive effluent monitoring; (2) the dose analysis for accidental releases of radioiodine, tritium, and carbon-14; (3) the control of radioactivity released into the liquid pathway; (4) the measurement of offsite radiation doses; and (5) the ability to rapidly determine offsite doses from radioactivity release by meteorological and hydrological measurements so that population-protection decisions can be made appropriately.<sup>26</sup> Item III.D.2.1 consists of three parts that are combined and evaluated in NUREG-0933<sup>2</sup> together. The following three parts of this item were given a LOW-priority ranking in the main report of NUREG-0933<sup>2</sup> published in 1983.

- Item III.D.2.1(1): Evaluate the Feasibility and Perform a Value-Impact Analysis of Modifying Effluent-Monitoring Design Criteria.
- Item III.D.2.1(2): Study the Feasibility of Requiring the Development of Effective Means for Monitoring and Sampling Noble Gases and Radioiodine Released To the Atmosphere.
- Item III.D.2.1(3): Revise Regulatory Guides.

This TMI Action Plan<sup>1</sup> item required development and implementation of acceptance criteria for monitors used to evaluate effluent releases under accident and post-accident conditions. Criteria were to be developed for pathways to be monitored (stack, plant vent, steam dump vents) as well as for monitoring instrumentation. This was seen to encompass the requirements in NUREG-0578,<sup>27</sup> Recommendation 2.1.8-b, and Appendix 2 to NUREG-0654.<sup>28</sup>

Liquid effluents were not envisioned as posing a major release pathway because licensees typically had installed, or were installing, adequate storage capacity to prevent discharges. Consequently, existing liquid effluent monitoring systems were considered adequate.

The overall objective of Items III.D.2.1(1), III.D.2.1(2), and III.D.2.1(3) was “to provide assurance that all possible accident effluent-release pathways are monitored and that monitors will perform properly under accident conditions.”<sup>29</sup> More specifically, under Item III.D.2.1(1), the staff would evaluate “the feasibility and perform a value-impact analysis of modifying effluent-monitoring design criteria.” A number of factors were introduced in NUREG-0660<sup>29</sup> for evaluation. Under Item III.D.2.1(2), staff would study the feasibility of requiring the development of effective means for monitoring and sampling noble gases and radioiodine released to the atmosphere during a pressurized-water reactor (PWR) steam dump.

This issue had no impact on core-melt accident frequency.

## 2.2.2 Possible Solution

As explained in NUREG-0933,<sup>2</sup> the envisioned monitoring system would provide automatic online analysis of airborne effluents including isotopic analyses of particulate, radioiodine, and gas samples. To prevent saturation of detectors, an automatic sample cartridge changeout feature would be included. The system would include microprocessor control and real-time readouts and would be located in a low post-accident background area. The sampling system would be designed to provide a representative sample under anticipated accident release conditions.

A PWR steam-dump sampling and monitoring system would be provided for PWR safety relief and vent valves. Such a system might consist of a noble gas monitor and a radioiodine sampling and monitoring system. The features of such a system would be similar to the above-described airborne monitor with two notable differences: (1) the system would be required to function in a very high humidity (steam-air mixture) environment and (2) operation would only be required during actual steam venting. Because such venting is usually of a short-term or intermittent duration, the monitoring system activation could be keyed to the opening of the vents.

## 2.2.3 Priority Determination

It was assumed in the priority determination presented in NUREG-0933<sup>2</sup> that improved radiological monitoring of airborne effluent would result in a reduction of public risk. In this section, a summary of the prioritization analysis performed in NUREG-0933<sup>2</sup> is presented.

### 2.1.3.1 Frequency/Consequence Estimate

The magnitude of public risk reduction attributable to improved radiological monitoring of airborne effluents was not certain, but it was estimated to range from 0 to 1 percent.<sup>30</sup>

By implementation of radiological monitoring requirements at the time of prioritization analysis, execution of sample collection and analysis procedures during design basis conditions was estimated to require between 2 to 3 hours. During this time, radioiodine and particulate releases would be estimated based on computer-modeled interpretation of noble gas monitor readings or on previous post-accident containment atmosphere analysis results, if such results were available. Public protective action recommendations would be made based on modeled estimates rather than actual effluent data. It was assumed that these recommendations would err on the conservative side (e.g., evacuate when not really required) due to the conservatism built into the modeled source terms for radioiodine and particulate releases.

Requiring licensees to have more sophisticated airborne effluent monitors would reduce the time required for obtaining actual radioiodine and particulate release data to 15 minutes and essentially eliminate reliance on conservative theoretical release models extrapolated from noble gas monitor readings. As projected by the possible solution,

real-time isotopic monitoring would save nearly 2 hours in arriving at realistic protective action recommendations based on actual releases.

Under these circumstances, the public risk reduction would be directly attributed to the decrease in public radiation exposure that would result from a more rapid assessment of the radioactive releases (about a 2-hour savings in analysis time). In addition, public risk may be reduced as a result of nonevacuation. The need for evacuation (presumed to exist if release knowledge was based only on noble gas monitor data) could be eliminated as a result of better knowledge of the isotopic releases. Nonevacuation would result in less evacuation-related risks (e.g., traffic accidents), the avoidance of which may outweigh the radiation exposure received. However, it was assumed that the public risk reduction would result primarily from the first effect (decrease in exposure due to more rapid assessment).

As the staff concluded in NUREG-0933,<sup>2</sup> "Based on the risk reduction potential and value/impact score, the issue was given a LOW priority ranking (see Appendix C) in November 1983. In NUREG/CR-5382,<sup>31</sup> it was concluded that consideration of a 20-year license renewal period could change the ranking of the issue to medium priority. Further prioritization, using the conversion factor of \$2,000/man-rem approved<sup>32</sup> by the Commission in September 1985, resulted in an impact/value ratio (R) of \$24,390/man-rem which did not change the priority ranking."

## **2.3 NRC Regulations and Policies**

### **2.3.1 Radiological Effluent Control Program**

The following regulations and design criteria establish the regulatory basis for the radiological effluent control program. Collectively, these regulations require that an environmental monitoring program be established and implemented to obtain data on measurable levels of radiation and radioactive materials. The Annual Radiological Environmental Operating Report provides summaries of the data, interpretations, and analyses of trends of the results.

1. 10 CFR 20.1501, "Surveys,"<sup>33</sup> requires surveys that may be necessary and are reasonable to evaluate the magnitude and extent of potential radiological hazards. In 10 CFR Part 20, "Standards for Protection against Radiation," "survey" is defined as an evaluation of the radiological conditions and potential hazards related to radioactive material or other sources of radiation including (1) a physical survey of the location of radioactive material and (2) measurements or calculations of levels of radiation or concentrations or quantities of radioactive material present. The design objectives set out in 10 CFR Part 50, Appendix I, provide numerical guidance on limiting conditions for operation for light-water-cooled nuclear power reactors to meet the requirement that radioactive materials in effluents discharged to unrestricted areas be kept as low as is reasonably achievable (ALARA).
2. 10 CFR 50.36a, "Technical Specifications on Effluents from Nuclear Power Reactors," requires establishing technical specifications with procedures and controls over effluents including reporting (1) the quantity of each of the principal radionuclides discharged to unrestricted areas in liquid and gaseous effluents and (2) other information used to estimate the maximum potential annual radiation doses to the public from radioactive effluents.



3. 10 CFR 20.1302, "Compliance with Dose Limits for Individual Members of the Public," establishes requirements for surveys in the unrestricted and controlled areas and for radioactive materials in effluents discharged to unrestricted and controlled areas. The purpose of these surveys is to demonstrate compliance with the dose limits of 10 CFR 20.1301, "Dose Limits for Individual Members of the Public." Although 10 CFR 20.1302(b)(2) provides a second method of demonstrating compliance with dose limits for individual members of the public, nuclear power plant technical specifications essentially require use of 10 CFR 20.1302(b)(1) to determine the total effective dose equivalent to the individual likely to receive the highest dose. This requirement is based on actual, realistic exposure pathways to a real individual. (See also RG 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Demonstrating Compliance with 10 CFR Part 50, Appendix I"<sup>34</sup> and Attachment 6 to SECY-03-0069, "Results of the License Termination Rule Analysis,"<sup>35</sup> dated May 2, 2003).
4. 10 CFR 72.44(d), "License Conditions,"<sup>36</sup> establishes environmental monitoring requirements for each facility holding a specific license under Part 72 authorizing receipt, handling, and storage of spent fuel, high-level radioactive waste, and/or reactor-related greater than class "C" waste.
5. Section IV.B of Appendix I, "Numerical Guides for Design Objectives and Limiting Conditions for Operation to Meet the Criterion 'As Low As Is Reasonably Achievable' for Radioactive Material in Light-Water-Cooled Nuclear Power Reactor Effluents," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities."
6. General Design Criterion 60, "Control of releases of radioactive materials to the environment," of Appendix A, "General Design Criteria for Nuclear Power Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," specifies nuclear power units shall control liquid and gaseous effluents and handle solid waste for both normal and anticipated operational occurrences.
7. General Design Criterion 64, "Monitoring radioactivity releases," of Appendix A, "General Design Criteria for Nuclear Power Plants," to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," specifies that a means shall be provided for monitoring effluent discharge paths and the plant environs for radioactivity that may be released during both normal and anticipated operational occurrences.

Six basic documents contain the regulatory guidance for implementing the 10 CFR Part 20 and 10 CFR Part 50 regulatory requirements and plant technical specifications related to monitoring and reporting of radioactive material in effluents and environmental media, solid radioactive waste disposal, and the public dose resulting from licensed operation of a nuclear power plant:

1. RG 1.21 (Rev. 2, 06/2009), "Measuring, Evaluating, and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste,"<sup>37</sup> addresses the measuring, evaluating, and reporting of effluent releases, solid radioactive waste, and public dose from nuclear power plants. The guide describes the important concepts in planning and implementing an effluent and solid radioactive waste program. Concepts covered include meteorology, release points, monitoring

methods, identification of principal radionuclides, unrestricted area boundaries, continuous and batch release methods, representative sampling, composite sampling, radioactivity measurements, decay corrections, quality assurance, solid radioactive waste shipments, and public dose assessments.

2. RG 4.1 (Rev. 2, 06/2009), "Radiological Environmental Monitoring for Nuclear Power Plants,"<sup>38</sup> addresses the environmental monitoring program. The guide discusses principles and concepts important to environmental monitoring at nuclear power plants. The regulatory guide addresses the need for preoperational and background characterization of radioactivity. It also addresses environmental monitoring (both onsite and offsite), including the exposure pathways. The guide defines the exposure pathways, the program scope of sampling media and sampling frequency, and the methods of comparing environmental measurements to effluent releases in the Annual Radiological Environmental Operating Report.
3. RG 4.15 (Rev. 2, 07/2007), "Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination)—Effluent Streams and the Environment,"<sup>39</sup> provides the basic principles of QA in all types of radiological monitoring programs for effluent streams and the environment. The guide addresses all types of licenses including nuclear power plants. The guide provides the principles for structuring organizational lines of communication and responsibility using qualified personnel, implementing standard operating procedures, defining data quality objectives (DQOs), performing quality control checking for sampling and analysis, auditing the process, and taking corrective actions.
4. NUREG-1301, "Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Pressurized Water Reactors."<sup>40</sup>
5. NUREG-1302, "Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Boiling Water Reactors."<sup>41</sup>

NUREG-1301<sup>40</sup> and NUREG-1302<sup>41</sup> provide the detailed implementation guidance by describing effluent and environmental monitoring programs. The NUREGs specify effluent monitoring and environmental sampling requirements, surveillance requirements for effluent monitors, types of monitors and samplers, sampling and analysis frequencies, types of analysis and radionuclides analyzed, lower limits of detection (LLDs), specific environmental media to be sampled, and reporting and program evaluation and revision.

6. RG 1.109 (Rev. 1, 10/1977), "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Demonstrating Compliance with 10 CFR Part 50, Appendix I,"<sup>34</sup> provides the detailed implementation guidance for demonstrating that radioactive effluents conform to the ALARA design objectives of 10 CFR 50, Appendix I. The regulatory guide describes calculational models and parameters for estimating dose from effluent releases including the dispersion of the effluent in the atmosphere and different water bodies.

These six documents, when used in an integrated manner, provide the basic guidance and implementation details for developing and maintaining effluent and environmental monitoring programs at nuclear power plants. The four regulatory guides specify the

guidance for radiological monitoring and the assessment of dose, and the two NUREGs provide the specific implementation details for effluent and environmental monitoring programs.

Section 11.5 of the SRP,<sup>3</sup> "Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems," outlines the acceptance criteria acceptable to meet the relevant requirements of NRC's regulations described above.

### 2.3.2 Accident Monitoring Instrumentation

Regulations and design criteria for accident monitoring instrumentation in power plants are outlined by Criterion 13, Criterion 19, Criterion 64 of Appendix A to 10 CFR Part 50, and Subsection (2)(xix) of 10 CFR 50.34(f).

Criterion 13, "Instrumentation and Control," requires operating reactor licensees to provide instrumentation to monitor variables and systems over their anticipated ranges for accident conditions as appropriate to ensure adequate safety.

Criterion 19, "Control Room," requires operating reactor licensees to provide a control room from which actions can be taken to maintain the nuclear power unit in a safe condition under accident conditions including loss-of-coolant accidents (LOCAs). In addition, operating reactor licensees must provide equipment (including the necessary instrumentation) at appropriate locations outside the control room with a design capability for prompt hot shutdown of the reactor.

In addition, Subsection (2)(xix) of 10 CFR 50.34(f), "Additional TMI-Related Requirements," requires operating reactor licensees to provide adequate instrumentation for use in monitoring plant conditions following an accident that includes core damage.

RG 1.97, "Criteria for Accident Monitoring Instrumentation for Nuclear Power Plants"<sup>42</sup> (Rev. 4, June 2006), describes a method that the NRC staff considers acceptable for use in complying with the agency's regulations with respect to satisfying criteria for accident monitoring instrumentation in nuclear power plants. RG 1.97<sup>42</sup> (Rev.4) endorses (with certain clarifying regulatory positions specified in Section C of the guide) the "IEEE Standard Criteria for Accident Monitoring Instrumentation for Nuclear Power Generating Stations" that the Institute of Electrical and Electronics Engineers (IEEE) promulgated as IEEE Std. 497-2002.<sup>43</sup> IEEE Std. 497-2002<sup>43</sup> specifies some requirements for instruments that are used for monitoring the magnitude of releases of radioactive materials through identified pathways.

## 2.4 Assessment and Conclusion

### 2.4.1 Item III.D.2.1(1): Evaluate the Feasibility and Perform a Value-Impact Analysis of Modifying Effluent-Monitoring Design Criteria

The overall objective of this issue, which "is to provide assurance that all possible accident effluent-release pathways are monitored and that monitors will perform properly under accident conditions," is covered by GDC 64, "Monitoring radioactivity releases." GDC 64 states that "Means shall be provided for monitoring the reactor containment

atmosphere, spaces containing components for recirculation of loss-of-coolant accident fluids, *effluent discharge paths, and the plant environs for radioactivity that may be released from normal operations, including anticipated operational occurrences, and from postulated accidents.*" Moreover, Subsection (2)(xvii)(E) 10 CFR 50.34(f) establishes the requirement for monitoring noble gas effluents and continuous sampling of radioactive iodines and particulates in gaseous effluents. According to this part of the regulation, "each applicant for a light-water-reactor construction permit or manufacturing license whose application was pending as of February 16, 1982" in addition to "each applicant for a design certification, design approval, combined license, or manufacturing license under part 52" of 10 CFR needs to "provide instrumentation to measure, record and readout in the control room: ... (E) noble gas effluents at all potential, accident release points. Provide for continuous sampling of radioactive iodines and particulates in gaseous effluents from all potential accident release points, and for onsite capability to analyze and measure these samples." Finally, Subsections (2)(xxvii) and (2)(xxviii) of 10 CFR 50.34(f) establish requirements for monitoring of inplant radiation and airborne radioactivity for a broad range of routine and accident conditions and for evaluating potential pathways for radioactivity and radiation that may lead to control room habitability problems under accident conditions.

In addition to regulations stated above, Section 11.5 of the SRP,<sup>3</sup> "Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems," states that "Provisions should be made for the installation of instrumentation and monitoring equipment and/or sampling and analyses of all normal and potential effluent pathways for release of radioactive materials to the environment, including nonradioactive systems that could become radioactive through interfaces with radioactive systems." Table 1 of Section 11.5 of the SRP<sup>3</sup> specifies the gaseous streams or effluent release points that should be monitored and sampled. In addition, for monitoring the effluents during a postulated event, Section 11.5 of the SRP<sup>3</sup> states that "Provisions should be made for monitoring instrumentation, sampling, and sample analyses for all identified gaseous effluent release paths in the event of a postulated accident."

As explained earlier, implementation of the proposed solutions has no impact on the core-melt accident frequency. Moreover, "while protective actions can be recommended based on effluent releases in progress, the probability for a core-melt scenario was such that actions would be recommended based on anticipated releases prior to the actual release themselves. Under this assumption, monitoring effluent releases would have little or no impact on public risk and would be mainly for confirmation and quantification."

Specific requirements related to some of the factors in the proposed design criteria mentioned in NUREG-0660 have not been established; however, based on the review of NRC's regulations presented above, staff concludes that the overall objectives of Item III.D.2.1 (1) are met by the existing regulations. Moreover, the low safety significance of the issue does not warrant further actions to evaluate and implement the proposed solutions. Therefore, the staff recommends changing the status of Item III.D.2.1 (1) and dropping this issue from further pursuit.

#### 2.4.2 Item III.D.2.1(2): Study the Feasibility of Requiring the Development of Effective Means for Monitoring and Sampling Noble Gases and Radioiodine Released To the Atmosphere

In addition to Criterion 64, "Monitoring radioactivity releases," of the GDC, Subsection (2)(xvii)(E) of 10 CFR 50.34(f) establishes the requirement for monitoring noble gas effluents and continuous sampling of radioactive iodines and particulates in gaseous effluents. According to this part of the regulation, "each applicant for a light-water-reactor construction permit or manufacturing license whose application was pending as of February 16, 1982" in addition to "each applicant for a design certification, design approval, combined license, or manufacturing license under part 52" of 10 CFR needs to "Provide instrumentation to measure, record and readout in the control room: ... (E) noble gas effluents at all potential, accident release points. Provide for continuous sampling of radioactive iodines and particulates in gaseous effluents from all potential accident release points, and for onsite capability to analyze and measure these samples."

Based on the review of NRC's regulations related to this issue presented above and the low safety significance of this issue, the staff concludes that Item III.D.2.1 (2) is adequately addressed by the existing regulations. Therefore, the staff recommends changing the status of Item III.D.2.1 (2) and dropping this issue from further pursuit.

#### 2.4.3 Item III.D.2.1(3): Revise Regulatory Guides

NUREG-0660<sup>29</sup> called for this issue to "revise Regulatory Guide 1.21, Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants, Standard Review Plan Section 11.5, Process and Effluent Radiological Monitoring and Sampling Systems, and further revise Regulatory Guide 1.97, as necessary." All of these documents have been updated since the issuance of NUREG-0660.<sup>29</sup> Some specific factors of the design criteria mentioned in NUREG-0660<sup>29</sup> have not been included in these updates. However, the overall objective of the issue has been thoroughly addressed in these updates. As of April 2010, the latest revision of each document is available as follows: RG 1.21,<sup>37</sup> Rev. 2 (June 2009); SRP<sup>3</sup> Section 11.5 (March 2007); and RG 1.97,<sup>42</sup> Rev. 4 (June 2006).

Because of the revisions made on RG 1.21,<sup>37</sup> SRP<sup>3</sup> Section 11.5 and RG 1.97,<sup>42</sup> staff recommends changing the status of Item III.D.2.1 (3) and dropping this issue from further pursuit.

### **3. GENERIC ISSUE 81: IMPACT OF LOCKED DOORS AND BARRIERS ON PLANT AND PERSONNEL SAFETY**

#### **3.1 Overview**

Generic issue 81, "Impact of Locked Doors and Barriers on Plant and Personnel Safety," was proposed to address the risk of possible locked doors failure that may be required for fire protection, radiation protection, flood protection, and administrative controls during abnormal or accident situations when emergency conditions may require prompt and unlimited access. This issue was initially placed in the DROP category in 1984 and was given a LOW-priority ranking later in 1992. Staff conducted a review of this issue in 2010 to determine whether any new information would necessitate reassessment of original prioritization evaluation. Staff determined that the operating experience has not indicated a change in the significance of this issue. In addition, staff verified that the regulations related to this issue establish requirements that provide prompt access to affected areas and equipment during emergencies. These regulations include Subsections (e)(9)(i), (g)(5)(i), (g)(5)(ii), (e)(8)(iii), (e)(9)(ii) of 10 CFR 73.55, Appendix R to 10 CFR Part 50, "Fire Protection Program for Nuclear Power Facilities," and RG 5.65, "Vital Area Access Controls, Protection of Physical Security Equipment, and Key and Lock Controls." Because the existing regulations and guidance adequately address this issue and the operating experience has not indicated a change in the significance of this issue, staff recommends changing the status of generic issue 81 and dropping this issue from further pursuit.

Section 3.2 describes a historical background of the identification and prioritization of generic issue 81. Section 3.3 presents an overview of the NRC regulatory framework and publication related to protection of vital equipment at nuclear power reactors. Finally, in Section 3.4 a discussion is provided to demonstrate the application of the NRC regulatory framework to this issue and to support its disposition.

#### **3.2 Historical Background**

##### **3.2.1 Description**

The possible failure of locked doors and barriers that may be required for fire protection, radiation protection, flood protection, and administrative controls is of special concern during abnormal or accident situations when emergency conditions may require prompt and unlimited access of the plant operators to safety equipment to assure proper plant shutdown.

In October 1982, the Executive Director for Operations appointed the Committee to Review Safety Requirements at Power Reactors (CRSRPR) to review NRC security requirements at nuclear power plants with a view toward evaluating the impact of these requirements on operational safety. Overall, the CRSRPR did not identify any clear operational safety problems associated with implementation of NRC's security requirements. However, the Committee found that there was the potential for security measures at a site to adversely affect safety and issued its recommendations in a report<sup>44</sup> on February 28, 1983. In view of one of the findings in this report, a memorandum<sup>45</sup> was issued on May 31, 1983, identifying this issue and suggesting that a

multidisciplinary group be convened to perform an integrated assessment of the potential safety problem associated with locked doors and barriers. Based on the responses to the memorandum, a consensus supported the creation of the multidisciplinary group to gather the necessary information and to prepare a scope of the issue for appropriate consideration.<sup>46</sup> This approach was approved,<sup>47</sup> and action on this matter was formally initiated.<sup>48</sup>

The multidisciplinary group held its first meeting on February 28, 1984, and issued a report on June 8, 1984.<sup>49</sup> Because a proposed rule (SECY-83-311)<sup>50</sup> specifically designed to address the security barrier issue had been prepared independently and IE Information Notice No. 83-36<sup>51</sup> also had been issued, the work of the group was limited to nonsecurity barriers.

The proposed rule<sup>52</sup> was eventually adopted and stated that "NRC is amending its regulations to provide a more safety conscious safeguards system while maintaining current levels of protection." Regulatory changes included: (1) permitting suspension of security based upon 10 CFR 50.54(x) and (y); (2) requiring the access authorization system to be designed to accommodate the potential need for rapid ingress and egress of individuals during emergency conditions or situations that could lead to emergency conditions; and (3) ensuring prompt access to vital equipment by periodically reviewing physical security plans for potential impact on plant and personnel safety. The rule was implemented with RG 5.65, "Vital Area Access Controls, Protection of Physical Security Equipment, and Key and Lock Controls,"<sup>53</sup> and Generic Letter 87-08,<sup>54</sup> which addressed the issuance of vital area keys to operations personnel. At the time of evaluation of this issue in 1995, the Reactor Safeguards Branch in the Office of Nuclear Reactor Regulation (NRR) indicated that almost all licensees were in compliance with RG 5.65<sup>53</sup> and Generic Letter 87-08<sup>54</sup> and had implemented mechanical key overrides for electronically controlled access doors. The rulemaking resulted in security plan amendments that increased the focus on plant and personnel safety.

Subsequent to the above work, a main feedwater pipe rupture event at the Surry plant (see Generic Issue 139, "Thinning of Carbon Steel Piping in LWRs"<sup>2</sup>) caused the failure of a security card-reader that was located about 50 feet from the break point. This failure was caused by intrusion of water and steam that saturated the card-reader. As a result, key cards could not be used to open plant doors. The control room doors were opened to provide access to the control room, and security personnel were assigned to the control room to provide access security. One operator was temporarily trapped in a stairway because of the card-reader failure. Electric override switches were later installed to remedy this problem. Because of the failure of the security card-reader during the Surry event, the staff determined that Issue 81 should be expanded to include potential electric door lock failures and reevaluated to determine whether the previous priority ranking (DROP) should be changed.<sup>55</sup>

### 3.2.2 Possible Solution

Staff proposed in NUREG-0933<sup>2</sup> that "[a]n evaluation of each plant's locked doors and barriers might be required and appropriate procedural and hardware changes may have to be made to establish that operator access is unimpeded during emergency, abnormal, or accident conditions, and that prompt operator action, as required, is possible."

### 3.2.3 Priority Determination

In the event of an accident, failure of the electronic card-reader access control system (ACS) could result in an impediment to operator actions outside of the control room that are required for recovery. Some examples of possible operator actions are: (1) locally overriding a failed component, (2) replacing or repairing a failed component, or (3) realigning valves to bypass a failed pump or clogged pipe. If the card-reader ACS fails, the operator will be impeded in his access through the door.

Even if the ACS fails, there is a large probability that the plant will have a mechanical key override or that the locks will fail open. The study conducted by the CRSRPR estimated that a majority of plants did not have problems with ACS computer failure either because the doors fail open, mechanical key overrides are available, or the number of controlled areas is small.<sup>56</sup> An NRR review of plant safeguards revealed that only one plant that did not have a mechanical key override on ACS-controlled doors had locks that failed open. Based on these data, a probability of 0.01 was assumed to account for the occurrence of no key override due to lost or misplaced keys, mechanical failure of the override, or failure of an electronic ACS to fail open if so designed.<sup>2</sup>

The estimated frequency of card-reader ACS failure and its impact on plant safety indicated that improvements in this area were not a cost-effective way to increase overall plant safety.<sup>2</sup> Moreover, the multidisciplinary task group concluded that the locks and barriers associated with these areas could easily be defeated or bypassed in an emergency situation, if necessary, provided enough time was available to take the necessary steps. In addition, implementation of the regulatory guidance associated with rulemaking<sup>52</sup> resulted in better coordination between plant security and operations personnel. Thus, this issue was given a LOW-priority ranking. Consideration of a 20-year license renewal period did not change the priority of the issue.<sup>56</sup>

## 3.3 NRC Regulations and Policies

NRC's principal requirements with respect to the protection of items of vital equipment at nuclear power reactors are contained in 10 CFR Part 73, "Physical Protection of Plants and Materials." These requirements are aimed at safeguarding against sabotage that could cause a radiological release. 10 CFR Part 73 "prescribes requirements for the establishment and maintenance of a physical protection system that will have capabilities for the protection of special nuclear material at fixed sites and in transit and of plants in which special nuclear material is used." The physical security plan provides high assurance against the design basis threat outlined in 10 CFR Part 73.1(a) to ensure activities involving special nuclear material are not inimical to common defense and security and do not constitute an unreasonable risk to the public health and safety.

10 CFR 73.55 establishes the detailed requirements for development and implementation of a physical security plan. The physical security plan defines the administrative, physical, and operational measures that provide protection of the facility and any associated special nuclear material from both internal and external threats. Compliance with 10 CFR 73.55 provides high assurance that a facility is protected against theft or diversion of nuclear material or radiological sabotage. 10 CFR 73.55(e), "Physical Barriers;" 10 CFR 73.55(g), "Access Controls;" and 10 CFR 73.55(g), "Testing



and Maintenance,” contain rules that are related to generic issue 89 that will be discussed in the next section

RG 5.65, “Vital Area Access Controls, Protection of Physical Security Equipment, and Key and Lock Controls,”<sup>53</sup> (September 1986) describes measures the NRC staff considers acceptable to implement regulatory requirements on access controls. The purpose of these measures, in part, is to ensure adequate access for safety purposes while providing necessary physical security.

Finally, guidance for review of combined license applications is located in SRP<sup>3</sup> 13.6.1, “Physical Security - Combined License Review Responsibilities.” The same guidance applies to licensing actions under Part 50. Guidance for the review of design certification applications is located in SRP<sup>3</sup> 13.6.2, “Physical Security - Design Certification.” Lastly, guidance for the review of early site permit applications is located in SRP<sup>3</sup> 13.6.3, “Physical Security - Early Site Permit.”

### **3.4 Assessment and Conclusion**

According to Subsection (9)(i) of 10 CFR 73.55(e), “Vital equipment must be located only within vital areas, which must be located within a protected area so that access to vital equipment requires passage through at least two physical barriers, except as otherwise approved by the Commission and identified in the security plans.” During emergencies or abnormal conditions, it may be necessary for certain licensee personnel to gain quick access to vital equipment to mitigate or terminate some adverse plant condition. Paragraph 73.55(g)(5)(i) requires that “The licensee shall design the access control system to accommodate the potential need for rapid ingress or egress of authorized individuals during emergency conditions or situations that could lead to emergency conditions.” Moreover, paragraph 73.55(g)(5)(ii) states that “To satisfy the design criteria of paragraph (g)(5)(i) of this section during emergency conditions, the licensee shall implement security procedures to ensure that authorized emergency personnel are provided prompt access to affected areas and equipment.”

In addition, requirements have been established to ensure that personnel can quickly evacuate vital areas if the emergency condition results in high radiation or other dangerous conditions within the vital area. Paragraphs 73.55(e)(8)(iii) and 73.55(e)(9)(ii) state, in part, this requirement for protected area and vital area, respectively. 73.55(e)(8)(iii) states that “All emergency exits in the protected area must be alarmed and secured by locking devices that allow prompt egress during an emergency and satisfy the requirements of this section for access control into the protected area.” In addition, for 73.55(e)(9)(ii) states that “The licensee shall protect all vital area access portals and vital area emergency exits with intrusion detection equipment and locking devices that allow rapid egress during an emergency and satisfy the vital area entry control requirements of this section.”

Finally, Appendix R to 10 CFR Part 50, “Fire Protection Program for Nuclear Power Facilities,” states that administrative controls shall establish procedures to define the strategies for fighting fires in all safety-related areas and areas presenting a hazard to safety-related equipment. Under these strategies, in part, “All access and egress routes that involve locked doors should be specifically identified in the procedure with the appropriate precautions and methods for access specified.”

In addition to regulations stated above, for emergencies or abnormal conditions, RG 5.65<sup>53</sup> states that "Licensees can provide for rapid ingress/egress during such conditions by providing backup keys to vital areas and methods of opening locked doors in the case of computer or power failure." Moreover, RG 5.65<sup>53</sup> describes acceptable procedures for providing for safe ingress/egress during a power or computer outage.

Based on the review of NRC's regulations related to this issue presented above, the staff concludes that the existing regulations adequately establish requirements that provide prompt access to affected areas and equipment during emergencies. Therefore, the staff recommends changing the status of generic issue 81 and dropping this issue from further pursuit.

## **4. GENERIC ISSUE 127: MAINTENANCE AND TESTING OF MANUAL VALVES IN SAFETY-RELATED SYSTEMS**

### **4.1 Overview**

Generic issue 127, "Maintenance and Testing of Manual Valves in Safety-Related Systems," was proposed in 1986 to assess the adequacy of the maintenance program for manual valves. This issue was given a LOW priority ranking in 1987, as reported in Supplement 7 to NUREG-0933. Staff conducted a review of this issue in 2010 to determine whether any new information would necessitate reassessment of original prioritization evaluation. Based on the review of NRC's regulations, staff determined that this issue is addressed by Subsections (b)(2)(i) and (b)(2)(ii) of 10 CFR 50.65, "Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants," and Chapter 17.6, "Maintenance Rule," of the SRP (revised in 2007). In addition, the operating experience has not indicated a change in the safety significance of this issue. Because the existing regulations and guidance adequately address this issue and the operating experience has not indicated a change in the significance of this issue, staff recommends changing the status of generic issue 127 and dropping this issue from further pursuit.

Section 4.2 describes a historical background of the identification and prioritization of this issue. Section 4.3 presents an overview of the NRC regulatory framework and publication related to the maintenance rule. Finally, in Section 4.4 a discussion is provided to demonstrate the application of the NRC regulatory framework to this issue and to support its disposition.

### **4.2 Background**

#### **4.2.1 Description**

This issue was identified in the NRC Incident Investigation Team (IIT) report on the loss of integrated control system (ICS) power event at Rancho Seco on December 26, 1985 (NUREG-1195).<sup>57</sup> Following the event, it was requested that the adequacy of the maintenance program for manual valves be prioritized as a generic issue.<sup>59</sup> In addition, the staff drafted an Information Notice<sup>58</sup> that was later issued as IE Information No. 86-61, "Failure of Auxiliary Feedwater Manual Isolation Valve,"<sup>60</sup> on July 28, 1986.

In the Rancho Seco event, power was lost to the ICS and the plant responded as designed—the Auxiliary Feedwater (AFW) ICS flow-control valves and other valves went to the 50-percent open position. However, AFW flow was excessive and an unsuccessful attempt was made to manually close the flow control valve to the "A" Once-Through Steam Generator (OTSG). The operator then attempted to close the manual isolation valve and failed to do so as the valve was "frozen" in the open position and could not be moved even when a valve wrench was used. Consequently, this inability to reduce AFW flow resulted in an overcooling event. The IIT found that the failure of the AFW manual isolation valve was the result of a lack of preventive maintenance (including lubrication) on this valve during the entire operational life of the plant (about 10 to 12 years).

The manual isolation valve is a locked-open valve located in the AFW discharge header to the "A" OTSG. During the IIT investigation, a Sacramento Municipal Utility District

(SMUD) representative stated that the entire AFW system, which would include this manual isolation valve, is safety related. However, from other discussions with SMUD personnel, it appeared that this valve was only intended to be used to isolate the AFW (ICS) flow control valve for maintenance. The valve is categorized as an ASME Category E valve (i.e., it is normally locked open to fulfill its function). ASME Section XI (1974 edition) requires no regular testing of Category E valves. The position of the valves is merely recorded to verify that each valve is locked or sealed in its correct position. The current edition of ASME Section XI no longer includes a Category E for valves.

Following the incident, it was found that licensees did not have a regular maintenance program that applied to every manual valve. NRC did not have a requirement for maintenance and testing of convenience valves such as the locked-open manual valve involved in the Rancho Seco incident. ASME Section XI specifies inservice inspection, testing, repair, and replacement of valves that are components in systems classified as ASME Classes 1, 2, and 3 and are required to perform a specific function in shutting down a reactor to a cold shutdown condition or in mitigating the consequences of an accident. Manual valves in safety-related systems that are classified Quality Group A, B, or C in conformance with RG 1.26<sup>15</sup> are constructed to ASME Section III, Classes 1, 2, or 3 or to earlier codes and standards, as appropriate. These manual valves may be fill, vent, drain, or convenience valves and are constructed to the same code class as the system, or part of a system, of which they are a part. Such valves were not included in the inservice testing (IST) program for valves that were in conformance with ASME Section XI as noted above because they were not required to change position to perform a safety function. In the event a manual valve was required to change position to perform a safety function; it was included in the ASME Section XI IST program and classified as a safety-related valve.

At the time, the NRC requirements for valve testing were contained in 10 CFR 50.55 (a)(g) that incorporates ASME Section XI. Therefore, regulatory requirements for valve testing extended only to valves that were within the IST program. The Quality Group (Safety Class) and construction code of each valve was verified, and the valve category was also verified for conformance with Section XI, IWV-2000. In addition, the NRR staff performed a completeness review to assure that all appropriate valves within the scope of ASME Section XI were included in the IST program. The licensees are responsible for performing the testing, repair, and maintenance on the valves that are within their IST and maintenance programs.

#### 4.2.2 Possible Solutions

The staff proposed in NUREG-0933<sup>2</sup> to (1) develop or revise regulatory requirements relating to the inspection, testing, and maintenance of those fill, vent, drain, and convenience valves in safety-related systems that do not change position for the systems to perform their safety function or (2) identify this as an item for which NRC has concern, notify the licensees by an information notice, and let them determine the maintenance practices they wish to implement.

### 4.2.3 Priority Determination

In December 1987, staff made a priority determination in NUREG-0933<sup>2</sup> assigning a low priority to this issue "...due to the minimal estimated reduction in public risk resulting from the resolution of this issue." In arriving at this determination, the staff concluded in NUREG-0933<sup>2</sup> that the risk from this issue was very low and "Due to the low costs associated with maintaining the manual isolation valves, it would appear to be cost effective for plant operators to maintain them as a good practice and not require a regulatory requirement. The power replacement cost for one day of plant outage which may result from the inability to isolate would pay the plant life costs for isolation valve maintenance. In view of this cost saving potential, the release of the Information Notice may resolve this issue."

## 4.3 Regulatory Framework

### 4.3.1 Regulatory Background

Operating experience from the 1980s, including the Rancho Seco event, led the staff to implement a combination of the possible solutions noted above. Specifically, on July 10, 1991, NRC published 10 CFR 50.65, "Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants," also known as the maintenance rule. The associated RG 1.160, "Monitoring the Effectiveness of Maintenance at Nuclear Power Plants,"<sup>61</sup> provides insight into the bases for establishing the new rule. In the introduction, RG 1.160 states:

"...The NRC's determination that a maintenance rule was needed arose from the conclusion that proper maintenance is essential to plant safety. As discussed in the regulatory analysis for this rule, there is a clear link between effective maintenance and safety as it relates to such factors as the number of transients and challenges to safety systems and the associated need for operability, availability, and reliability of safety equipment. In addition, good maintenance is also important in providing assurance that failures of other than safety-related structures, systems, and components (SSCs) that could initiate or adversely affect a transient or accident are minimized."

The latter reference to failures of other than safety-related SSCs speaks directly to this generic issue and the Ranch Seco event because the malfunction of a manual isolation valve adversely affected the transient, resulting in an overcooling event.

### 4.3.2 Publications

Below is a list of RGs and Regulatory Issue Summaries (RIS) NRC publications related to the maintenance rule and nonsafety-related SSCs. This list represents the depth and breadth of the applicability of the maintenance rule to nonsafety-related SSCs. In addition to this list, the maintenance rule also has been incorporated in Section 17.6 of the SRP, "Maintenance Rule."

1. RG 1.54 (Rev.1, 07/2000), "Service Level I, II, and III Protective Coatings Applied to Nuclear Power Plants,"<sup>62</sup> is applicable to this generic issue because licensees that commit to this RG should meet the quality assurance provisions and guidance

contained in the standards in this RG and must also meet the commitments and provisions contained in their Quality Assurance Program including service level III protective coatings. These coatings are used in areas outside the reactor containment where failure could adversely affect the safety function of a safety-related SSC.

2. RG 1.160 (Rev.2, 03/1997), "Monitoring the Effectiveness of Maintenance at Nuclear Power Plants,"<sup>61</sup> is applicable to this generic issue because it covers the general provisions and guidance for complying with the Maintenance Rule including the regulatory position on nonsafety-related SSCs that are relied upon to mitigate accidents or transients.
3. RG 1.182 (05/2000), "Assessing and Managing Risk Before Maintenance Activities at Nuclear Power Plants,"<sup>63</sup> is a companion guide to RG 1.160 and provides guidance on methods acceptable to the NRC staff for assessing and managing the increase in risk that may result from maintenance activities and for implementing the optional reduction in scope of SSCs considered in the assessments. These maintenance activities also would include maintenance on nonsafety-related equipment such that failures will not occur that prevent the fulfillment of safety-related functions.
4. RIS 01-003 (01/23/2001), "Changes, Tests, and Experiments,"<sup>64</sup> among other purposes, clarifies the regulatory position on the requirements for performing 10 CFR 50.59 evaluations or 10 CFR 50.65(a)(4) maintenance risk assessments. The maintenance risk assessments also would include maintenance activities on nonsafety-related SSCs relied upon to mitigate accidents or transients.
5. RIS 06-007 (06/12/2006), "Changes to the Safety System Unavailability Performance Indicators,"<sup>65</sup> informs licensees that in April 2006 the agency replaced the Safety System Unavailability (SSU) Performance Indicators (PI) with the Mitigating Systems Performance Index (MSPI). Among other issues, the MSPI addressed the inconsistency of reporting unavailability data between the SSU PI and the maintenance rule. As such, the MSPI accounts for unavailability and unreliability contributions, some of which will be derived from activities associated with maintaining nonsafety-related SSCs relied upon to mitigate accidents or transients.

#### **4.4 Assessment and Conclusion**

The evaluation of this issue resulted in a LOW-priority rating as reported in NUREG-0933<sup>2</sup> published in December 1987. As published in 1991, sections (a) and (b) of the maintenance rule 10 CFR 50.65, "Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants," state that

"(a)(1) Each holder of an operating license for a nuclear power plant under this part and each holder of a combined license under part 52 of this chapter after the Commission makes the finding under § 52.103(g) of this chapter, shall monitor the performance or condition of structures, systems, or components, against licensee-established goals, in a manner sufficient to provide reasonable assurance that these structures, systems, and components, as defined in paragraph (b) of this section, are capable of fulfilling their intended functions. These goals shall be established

commensurate with safety and, where practical, take into account industrywide operating experience. When the performance or condition of a structure, system, or component does not meet established goals, appropriate corrective action shall be taken. For a nuclear power plant for which the licensee has submitted the certifications specified in § 50.82(a)(1) or 52.110(a)(1) of this chapter, as applicable, this section shall only apply to the extent that the licensee shall monitor the performance or condition of all structures, systems, or components associated with the storage, control, and maintenance of spent fuel in a safe condition, in a manner sufficient to provide reasonable assurance that these structures, systems, and components are capable of fulfilling their intended functions.

(b) The scope of the monitoring program specified in paragraph (a)(1) of this section shall include safety related and nonsafety related structures, systems, and components, as follows:

(1) Safety-related structures, systems and components that are relied upon to remain functional during and following design basis events to ensure the integrity of the reactor coolant pressure boundary, the capability to shut down the reactor and maintain it in a safe shutdown condition, or the capability to prevent or mitigate the consequences of accidents that could result in potential offsite exposure comparable to the guidelines in Sec. 50.34(a)(1), Sec. 50.67(b)(2), or Sec. 100.11 of this chapter, as applicable.

(2) Nonsafety related structures, systems, or components:

(i) That are relied upon to mitigate accidents or transients or are used in plant emergency operating procedures (EOPs); or

(ii) Whose failure could prevent safety-related structures, systems, and components from fulfilling their safety-related function; or

(iii) Whose failure could cause a reactor scram or actuation of a safety-related system.”

Sections (b)(2)(i) and (b)(2)(ii) address the event presented in this generic issue and, as demonstrated above with applicable operating experience, has addressed similar subsequent events. Moreover, the SRP was revised in 2007 to include Chapter 17.6, “Maintenance Rule,” which outlines the criteria for evaluating licensee applications for the scope, monitoring, evaluation, and risk assessment and management of implementing 10 CFR 50.65 including Section III, 1.B, which outlines the criteria for including nonsafety-related SSCs in accordance with 50.65(b)(2). Criterion iii of this section applies directly to this generic issue, stating that the description of the maintenance rule scoping process should address

“SSCs whose failure could prevent safety-related SSCs from fulfilling their safety-related functions in accordance with 50.65(b)(2)(ii). The applicant should describe how the process considers system interdependencies,

including failure modes and effects of nonsafety-related SSCs (e.g., support systems) that could directly affect safety-related functions.”

Based on the review of NRC’s regulations and guidance related to this issue, the staff concludes that existing regulations and guidance adequately address this issue. Therefore, the staff recommends changing the status of generic issue 127 and dropping this issue from further pursuit.



## 5. GENERIC ISSUE 167: HYDROGEN STORAGE FACILITY SEPARATION

### 5.1 Overview

Generic issue 167, "Hydrogen Storage Facility," was proposed in 1993 to address the potential risk from large H<sub>2</sub> storage facilities outside the reactor, auxiliary, and turbine buildings. This issue was given a LOW-priority ranking in June 1995. Staff conducted a review of this issue in 2010 to determine whether any new information would necessitate reassessment of original prioritization evaluation. Based on the review of NRC's regulations, staff determined that this issue is addressed by Inspection Procedures 71111.05AQ and 71111.05T. In addition, the operating experience has not indicated a change in the significance of this issue. Because the existing regulations and guidance adequately address this issue and the operating experience has not indicated a change in the significance of this issue, staff recommends changing the status of generic issue 167 and dropping this issue from further pursuit.

Section 5.2 describes a historical background of the identification and prioritization of this issue. Section 5.3 presents an overview of the NRC regulatory framework and publication related to this issue. Finally, in Section 5.4 a discussion is provided to demonstrate the application of the NRC regulatory framework to this issue and to support its disposition.

### 5.2 Background

#### 5.2.1 Description

Issue 106, "Piping and the Use of Highly Combustible Gases in Vital Areas (Rev. 2)," was resolved with the issuance of Generic Letter 93-06<sup>66</sup> that included evaluation of the risk from (1) the storage and distribution of H<sub>2</sub> for the volume control tank in PWRs and the main electric generator in boiling-water reactors (BWRs) and PWRs; (2) other sources of H<sub>2</sub> such as battery rooms, the waste gas system in PWRs, and the offgas system in BWRs; and (3) small, portable bottles of combustible gases used in maintenance, testing, and calibration. However, the potential risk from large H<sub>2</sub> storage facilities outside the reactor, auxiliary, and turbine buildings was not addressed. Studies performed during and subsequent to the resolution of Issue 106 raised concerns about the magnitude of the excluded risk.<sup>67</sup> Thus, in December 1993, this issue was identified<sup>68</sup> to address this excluded risk.

NRC Information Notice No. 89-44, "Hydrogen Storage on the Roof of the Control Room,"<sup>69</sup> was issued in May 1989, and each NRC Regional Office was expected to determine whether the plants in its region had similar safety-related concerns. The information compiled by these offices was reviewed and issued in the preliminary report SCIE-EGG-103-89.<sup>70</sup> The storage of gaseous or liquid H<sub>2</sub> at 119 power plants was then investigated, and possible accident scenarios resulting from a fireball, explosion, or presence of unburned H<sub>2</sub> gas in ventilation air intakes were examined. Explosion was identified as the scenario posing the greatest risk potential. The analysis in SCIE-EGG-103-89<sup>70</sup> focused on explosion with all quantification performed relative to this accident only.

The safety concern was whether or not adequate physical separation exists between H<sub>2</sub> storage facilities and buildings or structures housing systems important to safety at nuclear power plants. As reported in SCIE-EGG-103-89,<sup>70</sup> "[a]t the Trojan Nuclear Plant, April 17, 1989, [NRC] inspectors identified a potential safety problem concerning the storage of 32,000 standard cubic feet (scf) of hydrogen gas on the control room roof. The 32,000 scf was made up of four 8,000 scf tanks. This discovery raised concerns about possible similar hazards in the storage of hydrogen at other nuclear facilities."

#### 5.2.2 Possible Solutions

Staff stated in NUREG-0933<sup>2</sup> that "possible solutions included relocation (or placement in pits) of storage facilities, buildings, and equipment, and the construction of blast shields, or a combination of these." The resolution for this issue was assumed to be the construction of concrete walls enclosing the H<sub>2</sub> storage facility. This structure would serve as a blast shield in the event of an explosion, essentially eliminating the risk.

#### 5.2.3 Priority Determination

Based on the impact/value ratio and the potential reduction in Core Damage Frequency and public risk described in NUREG-0933,<sup>2</sup> staff assigned a LOW-priority ranking to this issue in June 1995.

### 5.3 Regulatory Framework

#### 5.3.1 Regulatory Background

In lieu of the staff-proposed solutions as cited above, NRC has addressed this issue through a combination of regulatory vehicles including the issuance and implementation of temporary instructions, rulemaking, and the continued, periodic inspection of fire protection programs and plant modifications (changes, tests, and experiments) at licensee facilities.

The foundation for these regulatory vehicles is Criterion 3 of 10 CFR 50, Appendix A which states

"...Structures, systems, and components important to safety shall be designed and located to minimize, consistent with other safety requirements, the probability and effect of fires and explosions. Noncombustible and heat resistant materials shall be used wherever practical throughout the unit, particularly in locations such as the containment and control room. Fire detection and fighting systems of appropriate capacity and capability shall be provided and designed to minimize the adverse effects of fires on structures, systems, and components important to safety. Firefighting systems shall be designed to assure that their rupture or inadvertent operation does not significantly impair the safety capability of these structures, systems, and components."

To satisfy this criterion, in November 1980, NRC added 10 CFR 50.48 and 10 CFR 50, Appendix R. Together, these regulations seek to establish safety margins through minimizing the potential for fires and explosions; rapidly detecting, controlling, and

extinguishing fires that do occur; and ensuring post-fire survival of the systems needed to shut down the reactor. The inappropriate separation of hydrogen storage facilities can challenge a licensee's ability to meet all of these objectives.

In 2000, NRC implemented the Reactor Oversight Process (ROP) that includes quarterly, annual, and triennial fire protection inspections via Inspection Procedures 71111.05AQ<sup>71</sup> and 71111.05T<sup>72</sup>. The ROP also includes the Significance Determination Process specifically for fire protection found in Inspection Manual Chapter 0609F, "Fire Protection Significance Determination Process."<sup>73</sup> In April 2002, NRC issued Temporary Instruction (TI) 2515/146, Revision 1, "Hydrogen Storage Locations." NRC issued this TI to verify licensee compliance with applicable codes and commitments regarding the location of hydrogen storage at operating nuclear power plants. NRC's supplemental oversight of this issue was in response to a hydrogen fire that occurred in the hydrogen storage facility at James A. Fitzpatrick nuclear power plant on January 14, 1999. Following this event, in May 1999, NRC conducted a survey of all operating plants to update information about hydrogen storage facilities. As a result of the less-than-complete survey responses from 30 licensees, NRC issued and implemented TI 2515/146,<sup>74</sup> Revision 1.

In July 2004, NRC approved the risk-informed and performance-based alternative regulation, 10 CFR 50.48(c), allowing licensees to focus their fire protection activities on the areas of greatest risk.

### 5.3.2 Publications

Since 1995, NRC has issued very few generic communications related specifically to this generic issue. Of note is NRC Information Notice (IN) 2001-12, "Hydrogen Fire at Nuclear Power Station,"<sup>75</sup> dated July 13, 2001. This IN alerts licensees to the potential hazards associated with hydrogen storage facilities including their separation, maintenance, and monitoring. In addition, Section 9.5.1, "Fire Protection Program" of the SRP<sup>3</sup> provides the staff with the review criteria for evaluating licensee applications with respect to comprehensive identification and analysis of fire and explosion hazards, among other elements. Included in this section is the reference to RG 1.189, "Fire Protection for Nuclear Power Plants,"<sup>76</sup> that includes guidance on the use of National Fire Protection Association codes for the separation of gaseous and liquefied hydrogen systems. Moreover, over 100 generic communications and regulatory guides exist that cover various aspects of the fire protection program and its requirements, many of which have a general reference to performing appropriate analyses for explosive hazards and separating hydrogen systems.

## 5.4 Assessment and Conclusion

This evaluation of this issue resulted in a LOW-priority rating as reported in NUREG-0933<sup>2</sup> published in June 1995. Between the publication of this generic issue in 1995 and the year 2000, very little followup was performed regarding this specific issue. During that time, most licensees committed to National Fire Protection Association code NFPA 50A, "Gaseous Hydrogen Systems at Consumer Sites," and NFPA 50B, "Liquefied Hydrogen System at Consumer Sites," as part of their licensing basis.<sup>77</sup> These codes provided separation distances for gaseous and liquefied hydrogen providing a basis for

inspection and potential enforcement, further supporting the LOW-priority rating of this generic issue.

In 2000, with the implementation of the ROP, Inspection Procedures 71111.05AQ<sup>71</sup> and 71111.05T<sup>72</sup> were issued. The objectives of these inspection procedures are to

- Evaluate the adequacy and implementation of the licensees' fire protection programs.
- Review the procedures to incorporate and implement changes to the respective fire protection programs.
- Determine the adequacy of the licensees's systems for taking corrective action when warranted by QA programs, generic deficiencies, or events.

With respect to this generic issue, these inspection procedures verify that a licensee's fire protection program included the control of combustible material, including the appropriate storage of bulk flammable gases and liquids like hydrogen. To that end, inspection procedures also verify that the licensee's fire protection program consists of a fire hazard analysis, which includes analyses for postulated hydrogen explosions. The fire protection program also includes the facility's technical specifications, which includes the appropriate limiting condition for operations to prevent the postulated fire conditions.

In December 2002, NRC reported the results of the inspections under TI 2515/146<sup>74</sup>. The report highlighted findings related to the adequate separation of hydrogen storage facilities from risk significant tanks or SSCs and from ventilation intakes. The licensees of these plants committed to taking appropriate corrective actions.

With respect to recent enforcement, in December 2008, inspectors identified a Severity Level IV non-cited violation of 10 CFR 50.59, "Changes, Tests, and Experiments," for the licensee's failure to perform a safety evaluation associated with installation of a bulk hydrogen storage facility located directly above buried Circulating Water System return lines.<sup>78</sup>

Based on the review of NRC's regulations and guidance related to this issue, the staff concludes that existing regulations and guidance adequately address this issue. Therefore, the staff recommends changing the status of generic issue 167 and dropping this issue from further pursuit.

## 6. REFERENCES

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## Kauffman, John

---

**From:** Criscione, Lawrence  
**Sent:** Friday, March 25, 2011 1:15 PM  
**To:** Kauffman, John  
**Subject:** RE: Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/18/2011. [eom]

Attended Common Cause Failure seminar  
Reviewed Operating Experience  
Reviewed MOU with STP for HRA study  
Reviewed Holden HRA study results

Next week:

Class "NRC and Its Environment" on Tuesday, Wednesday, Thursday.

---

**From:** Kauffman, John  
**Sent:** Thursday, March 17, 2011 11:52 AM  
**To:** Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Killian, Lauren; Lane, John; Reisifard, Mehdi; Perkins, Richard; Salomon, Arthur; Wegner, Mary  
**Subject:** Reminder--OEGIB Weekly Activities Input due by noon tomorrow, Friday 3/18/2011. [eom]

**From:** Homeland Security NewsWire  
**To:** Leeds, Eric  
**Subject:** Nuclear power in perspective  
**Date:** Friday, March 25, 2011 1:31:36 PM

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Homeland Security News Wire



Vol. 5, Friday, 25 March 2011

## The future of nuclear power

The brief // by Ben Franke!

Keeping it in perspective

The question we should ask about nuclear power is not whether or not it has risks; every mode of power generation comes with its own risks; rather, the questions we should ask are: How do the risks of nuclear power measure relative to the risks of other power generation methods? Was the disaster in Japan proof that nuclear power plants are riskier than we thought -- or did the disaster provide evidence for the opposite conclusions: aging plants absorbed unprecedented blows -- a double whammy of an 8.9 earthquake, followed by a massive tsunami; a series of mistakes by plant operators -- mistakes which came on top of years of wrong decisions about back-up systems and redundancy -- and yet, the plants survived: there was no meltdown; there was but little release of radioactive materials into the atmosphere; some would be moved to say this is a pretty good record under the circumstances

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AG/1113



**From:** [The Regulatory Group, Inc.](#)  
**To:** [Case, Michael](#)  
**Subject:** Federal Agency Guidance & Rulemaking Courses  
**Date:** Friday, March 25, 2011 1:32:10 PM

---

You may view our current course schedule online at <http://www.regulationwriters.com/training.shtml>

~~~~~

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**2011 Training Schedule**  
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~~~~~

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**May 19-20, 2011 -- Washington, DC**  
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**July 11-12, 2011 - San Francisco, CA**  
**August 30-31, 2011 -- Washington, DC**  
**September 20-21, 2011 -- Washington, DC**

AG/1114

This two-day course is for individuals new to rulemaking and for individuals looking to put their existing rulemaking experience into context. You will learn the fundamental legal and procedural requirements for rulemaking and how to write regulations that communicate clearly to the public. In addition to the coursebook, students will receive free copies of *An Introduction to Regulation Writing* and the *Document Drafting Handbook Annotated*. The cost is \$695. Group rates are available for three or more registrants.

This course addresses:

- Administrative Procedure Act and Federal Register requirements.
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- Compliance with Executive Orders and OMB requirements.
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- Preamble and rule writing.
- Judicial review of regulations.
- Basics of writing in plain language.

## **ADVANCED REGULATION DRAFTING COURSE**

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**March 29-30, 2011 -- Washington, DC (*Seats still available*)**  
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This two-day course is for individuals who attended the Regulatory Drafting & Process Course or have extensive experience with the regulatory process. This course uses real world exercises to provide you with the tools for improved problem solving and the skills for improved regulation writing. The cost is \$695. Group rates are available for three or more registrants.

This course addresses:

- Organization skills for regulation writing.
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- Writing for style and clarity.
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- Checklist for rule writers.

## **PAPERWORK REDUCTION ACT COMPLIANCE COURSE**

~~~~~

**May 6, 2011 -- Alexandria, VA**  
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This course addresses:

- Requirements of the Paperwork Reduction Act (PRA).
- What constitutes an information collection activity under the PRA.
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- PRA process requirements for information collections contained in a rulemaking and for information collections not contained in a rulemaking.
- Process and recommended timeline for submitting an ICR to OMB.

## **AGENCY GUIDANCE COURSE**

~~~~~

**June 24, 2011 -- Washington, DC**  
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This one-day course is designed to help Federal employees navigate the vast world of Agency Guidance. Agencies issue guidance, in the form of interpretations, policy statements, manuals, letters, and emails, to supplement or explain regulations and statutes. The cost is \$465. Group rates are available for three or more registrants.

This course addresses:

- Types of guidance documents.
- Binding versus non-binding guidance.
- Procedural requirements imposed by Executive Order 12866.
- Judicial review of agency guidance.
- Techniques for writing and organizing agency guidance.

## **FEDERAL ADMINISTRATIVE PROCESS: UPDATE AND REVIEW**

~~~~~

**April 1, 2011 -- Washington, DC (*Seats still available*)**  
**July 29, 2011 -- Washington, DC**

This one-day course is designed to bring lawyers and others working in regulatory agencies up-to-date in the field of agency rulemaking, primarily through discussion of Circuit Court and Supreme Court decisions. Registrants are encouraged to attend the Regulatory Drafting & Process Course before attending this course. The cost is \$465. Group rates are available for three or more registrants.

This course addresses:

- Review of the informal rulemaking requirements of the APA.
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**From:** Microsoft Exchange on behalf of Coyne, Kevin  
**To:** Coe, Doug  
**Subject:** Meeting Forward Notification: PRAB Weekly  
**Date:** Friday, March 25, 2011 1:45:43 PM

---

## Your meeting was forwarded

Coyne, Kevin has forwarded your meeting request to additional recipients.

### Meeting

PRAB Weekly

### Meeting Time

Tuesday, March 29, 2011 4:00 PM-4:30 PM.

### Recipients

Appignani, Peter

All times listed are in the following time zone: (GMT-05:00) Eastern Time (US & Canada)

---

Sent by Microsoft Exchange Server 2007

AG/1115

**From:** [Leeds, Eric](mailto:Leeds_Eric)  
**To:** [Diane.JACKSON@oecd.org](mailto:Diane.JACKSON@oecd.org); [Javier.REIG@oecd.org](mailto:Javier.REIG@oecd.org)  
**Subject:** FW: CNRA leadership team: Confernece call  
**Date:** Friday, March 25, 2011 1:52:00 PM

---

I'm following these emails and I'm confused. What time (US) is the call on Monday? Thanks!

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

---

**From:** [Javier.REIG@oecd.org](mailto:Javier.REIG@oecd.org) [<mailto:Javier.REIG@oecd.org>]  
**Sent:** Friday, March 25, 2011 6:20 AM  
**To:** Jean-Christophe.NIEL@asn.fr; Leeds, Eric; Johnson, Michael; Diane.JACKSON@oecd.org; Mike.Weightman@hse.gsi.gov.uk  
**Cc:** Adeline.CLOS@asn.fr; Astwood, Heather; Rosales-Cooper, Cindy; Lindsey.Moore@hse.gsi.gov.uk; Gail.Scowcroft@hse.gsi.gov.uk; Sprogeris, Patricia  
**Subject:** Re: CNRA leadership team: Confernece call

Paris time or UK time?

---

**From:** NIEL Jean-Christophe [<mailto:Jean-Christophe.NIEL@asn.fr>]  
**Sent:** Friday, March 25, 2011 10:55 AM  
**To:** Leeds, Eric <[Eric.Leeds@nrc.gov](mailto:Eric.Leeds@nrc.gov)>; Johnson, Michael <[Michael.Johnson@nrc.gov](mailto:Michael.Johnson@nrc.gov)>; JACKSON Diane, NEA/SURN; 'Mike.Weightman@hse.gsi.gov.uk' <[Mike.Weightman@hse.gsi.gov.uk](mailto:Mike.Weightman@hse.gsi.gov.uk)>  
**Cc:** CLOS Adeline <[Adeline.CLOS@asn.fr](mailto:Adeline.CLOS@asn.fr)>; Astwood, Heather <[Heather.Astwood@nrc.gov](mailto:Heather.Astwood@nrc.gov)>; Rosales-Cooper, Cindy <[Cindy.Rosales-Cooper@nrc.gov](mailto:Cindy.Rosales-Cooper@nrc.gov)>; REIG Javier, NEA/SURN; 'Lindsey.Moore@hse.gsi.gov.uk' <[Lindsey.Moore@hse.gsi.gov.uk](mailto:Lindsey.Moore@hse.gsi.gov.uk)>; 'Gail.Scowcroft@hse.gsi.gov.uk' <[Gail.Scowcroft@hse.gsi.gov.uk](mailto:Gail.Scowcroft@hse.gsi.gov.uk)>; Sprogeris, Patricia <[Patricia.Sprogeris@nrc.gov](mailto:Patricia.Sprogeris@nrc.gov)>  
**Subject:** RE: CNRA leadership team: Confernece call

Bonjour,

I will be available at 18:00, 28 march. (instead of 17:30)

Two options, up to you :

- Start at 18:00
- I join you at 18:00 during the meeting.

Cordialement,

Jean-Christophe Niel  
Directeur Général

Autorité de sûreté nucléaire  
6, Place du colonel Bourgoïn  
75575 Paris cedex 12  
Tél: +33 1 40 19 88 55  
Fax: +33 1 40 19 86 24

---

**De :** Leeds, Eric [<mailto:Eric.Leeds@nrc.gov>]

*AG/1116*

**Envoyé :** mercredi 23 mars 2011 16:26

**À :** Johnson, Michael; 'Diane.JACKSON@oecd.org'; NIEL Jean-Christophe; 'Mike.Weightman@hse.gsi.gov.uk'

**Cc :** CLOS Adeline; Astwood, Heather; Rosales-Cooper, Cindy; 'Javier.REIG@oecd.org'; 'Lindsey.Moore@hse.gsi.gov.uk'; 'Gail.Scowcroft@hse.gsi.gov.uk'; Sprogeris, Patricia

**Objet :** RE: CNRA leadership team: Confernece call

17:30 Paris time works best for me as well. But I can make the other time work, if needed.

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

---

**From:** Johnson, Michael

**Sent:** Wednesday, March 23, 2011 11:14 AM

**To:** 'Diane.JACKSON@oecd.org'; 'Jean-Christophe.NIEL@asn.fr'; Leeds, Eric; 'Mike.Weightman@hse.gsi.gov.uk'

**Cc:** 'Adeline.CLOS@asn.fr'; Astwood, Heather; Rosales-Cooper, Cindy; 'Javier.REIG@oecd.org'; 'Lindsey.Moore@hse.gsi.gov.uk'; 'Gail.Scowcroft@hse.gsi.gov.uk'; Sprogeris, Patricia

**Subject:** Re: CNRA leadership team: Confernece call

17:30 work best for me.  
From my blackberry.

---

**From:** Diane.JACKSON@oecd.org <Diane.JACKSON@oecd.org>

**To:** Jean-Christophe.NIEL@asn.fr <Jean-Christophe.NIEL@asn.fr>; Leeds, Eric; Johnson, Michael; Mike.Weightman@hse.gsi.gov.uk <Mike.Weightman@hse.gsi.gov.uk>

**Cc:** Adeline.CLOS@asn.fr <Adeline.CLOS@asn.fr>; Astwood, Heather; Rosales-Cooper, Cindy; Javier.REIG@oecd.org <Javier.REIG@oecd.org>; Lindsey.Moore@hse.gsi.gov.uk <Lindsey.Moore@hse.gsi.gov.uk>; Gail.Scowcroft@hse.gsi.gov.uk <Gail.Scowcroft@hse.gsi.gov.uk>

**Sent:** Wed Mar 23 11:02:46 2011

**Subject:** CNRA leadership team: Confernece call

Dear Mike, Jean-Christophe, Eric and Mike –

As the CNRA leadership team, we would like to have a discussion on the CNRA/NEA response to the Japanese events.

Mike W. proposes these times:

Monday, 28 March 14:30 - 15:00 (8:30-9 US, 15:30-16:00 Paris) or

Monday, 28 March 17:30 – 18:30 (11:30-12:30 US, 18:30-19:30 Paris)

Please let me know your availability and/or preference.

We have already asked the WG chairs to lead a discussion to identify activities that their WG thinks should be undertaken and to report to the CNRA in June.

For the conference call:

- What type of session do we want to address this at June CNRA meeting?

- Are there tasks that you like the CNRA, CSNI, MDEP to undertake, and by what group(s) or a special task group?
- Should operating NPPs and new builds be separate activities?
- With all of these, what should be our time lines? Near-term actions and longer-term actions.
- What changes, if any, should be made to the programme of the LTO Forum?



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

*REL*  
**From:** Leeds, Eric *MLR*  
**To:** Dean, Bill; Lew, David  
**Subject:** RE: Summary of Meeting (TELCON) Congresswoman Hayworth  
**Date:** Friday, March 25, 2011 1:53:00 PM

---

You've already got them. I would be glad to talk you through it on the phone. Later today – say 4:30, or next week?

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

---

**From:** Dean, Bill *rel*  
**Sent:** Thursday, March 24, 2011 10:43 PM  
**To:** Leeds, Eric; Borchardt, Bill; Virgilio, Martin  
**Cc:** Lew, David; Roberts, Darrell; Weber, Michael; McNamara, Nancy; Schmidt, Rebecca; Powell, Amy; Boger, Bruce; Giitter, Joseph  
**Subject:** Re: Summary of Meeting (TELCON) Congresswoman Hayworth

Thanks eric. Can we get the talking points you used as they could come in handy at our annual assessment meetings.

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

---

**From:** Leeds, Eric  
**To:** Borchardt, Bill; Virgilio, Martin  
**Cc:** Dean, Bill; Lew, David; Roberts, Darrell; Weber, Michael; McNamara, Nancy; Schmidt, Rebecca; Powell, Amy; Boger, Bruce; Giitter, Joseph  
**Sent:** Thu Mar 24 17:28:00 2011  
**Subject:** Summary of Meeting (TELCON) Congresswoman Hayworth

FYI – The only take-away was that the Congresswoman is very interested in touring IP with Region I staff. We had a very pleasant and productive discussion.

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

---

**From:** Meighan, Sean *MLR*  
**Sent:** Thursday, March 24, 2011 5:21 PM  
**To:** Leeds, Eric  
**Cc:** Hiland, Patrick; Dacus, Eugene  
**Subject:** Summary of Meeting (TELCON) Congresswoman Hayworth

Meeting with Congresswoman Hayworth:

AG/1117

At 3:00pm on Thursday, March 24<sup>th</sup> NRR participated in a TELCON with Congresswoman Hayworth (NY 19<sup>th</sup> District, which includes Indian Point). On the phone for the Office of the Congresswoman was only Congresswoman Hayworth. On the phone for the NRC was Eric Leeds (Director NRR), Patrick Hiland (Director, NRR Division of Engineering), Gene Dacus (Region I, Office of Congressional Affairs), and Sean Meighan, NRR TA.

### **High Level Topic Discussed**

Congresswoman Hayworth:

- The Congresswoman has held 3 town hall meetings on the topic of Indian Point in the last week
- The Congresswoman toured Indian Point in November of 2009
- The Congresswoman stated "there is no imminent danger due to Indian Point, and there is no need to shut down Indian Point".
- The Congresswoman then requested that NRR "offer any specifics on (NRR) perception of the seismic risks at Indian Point.

Eric Leeds then addressed:

- The fundamentals of licensing basis and discussed how environmental and location specific hazards are treated in the licensing basis.
- Also discussed was the media report discussing the journalists ranking of Indian Point related to seismic hazards.
- Briefly touched upon was the License Renewal Process.

### **Action Item:**

The Congresswoman requested the NRC arrange for The Congresswoman to "tag along" with the NRC during their day to day duties at Indian Point. Gene Dacus took the Action Item to coordinate this request with Region I.

**From:** [Norris, Wallace](#)  
**To:** [Case, Michael](#)  
**Cc:** [Csontos, Aladar](#); [Boyce, Tom \(RES\)](#); [Moyer, Carol](#)  
**Subject:** RE: 50.55a ASME Code Final Rulemaking - concurrence  
**Date:** Friday, March 25, 2011 1:54:23 PM

---

Mike, I have reviewed the draft final rule to incorporate the 2005 through 2008 Addenda of the ASME Code and recommend that you approve the draft final rule with comment. The comment being that the discussion in the draft final rule regarding the National Technology Transfer and Advancement Act (NTTAA) of 1995, Pub. L. 104-113, needs to be revised consistent with the guidance given by OGC, i.e., "the NTTAA does not require a federal agency to adopt a voluntary consensus standard simply because such a standard exists. Rather, the NTTAA requires that the federal agency use the voluntary consensus standard instead of developing a government-unique standard, unless contrary to law or impractical. Thus, if a federal agency does not intend to develop a government unique standard, the NTTAA requires no action."

OGC will be providing revised language for NRR so we do not have to suggest corrections.

Thanks, Wally

---

**From:** Padovan, Mark  
**Sent:** Saturday, March 19, 2011 2:08 PM  
**To:** Nichols, Russell; Zimmerman, Roy; Sheron, Brian  
**Cc:** Benney, Kristen; Case, Michael; Norris, Wallace; Helton, Shana; Quay, Theodore  
**Subject:** 50.55a ASME Code Final Rulemaking - concurrence

Messrs. Nichols, Zimmerman, and Sheron,

Please concur on the attached final rule to incorporate by reference the 2005 Addenda thru 2008 Addenda of ASME Boiler and Pressure Vessel Code, and the 2005 Addenda and 2006 Addenda of the Operation and Maintenance Code, into 10 CFR 50.55a by Friday, March 25, 2011. You can send me your concurrence via email.

The following are attached for your review:

- Dir of NRR Memo
- Federal Register Notice
- Notice of Final Rule:
- Regulatory and Backfit Analysis
- Approval for Publication
- EDO Daily / Weekly notes
- Congressional Letters

In addition, we prepared an Analysis of Public Comments document that is available in ADAMS (ML110280240).

AG/1118



Wally - On the bottom of page 88 of the FRN, please add the date of Regulatory Guide 1.84, "Design, Fabrication, and Materials Code Case Acceptability, ASME Section III, Proposed Revision 34." Thanks.

Mark

**From:** [Dehn, Jeff](mailto:Dehn, Jeff)  
**To:** [N.Tricot@iaea.org](mailto:N.Tricot@iaea.org)  
**Cc:** [Case, Michael](#); [Sangimino, Donna-Marie](#); [Schwartzman, Jennifer](#)  
**Subject:** RE: IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"  
**Date:** Friday, March 25, 2011 2:22:26 PM

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Dear Mr. Tricot,

I am writing on behalf of Dr. Case. Thank you for your email regarding the upcoming Consultancy Meeting. We are aware that it approaches quickly and are discussing it internally. As you no doubt understand, the past few weeks have been especially hectic here at the USNRC.

Regarding this case, and for future reference, we would appreciate if requests for USNRC support (even "informal" instances such as this) to be sent via the US attaché at the IAEA, Mark Shaffer [[ShafferMr@state.gov](mailto:ShafferMr@state.gov)]. He will forward these requests through our Office of International Programs for processing within the USNRC. The IAEA contact here is Jennifer Schwartzman.

We will be in touch with you regarding this specific request as soon as possible.

Thank you,

Jeff Dehn

International Relations Specialist  
Office of Nuclear Regulatory Research (RES)  
US Nuclear Regulatory Commission  
[jeff.dehn@nrc.gov](mailto:jeff.dehn@nrc.gov)  
+1 301-251-7672

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**From:** [N.Tricot@iaea.org](mailto:N.Tricot@iaea.org) [<mailto:N.Tricot@iaea.org>]  
**Sent:** Thursday, March 24, 2011 6:51 AM  
**To:** Case, Michael  
**Subject:** RE: IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"

Dear Dr Case

This is a reminder as we are getting closer to the Consultancy Meeting. Should you be able to assign one expert, for IAEA logistic aspects, I would appreciate it if you could let me know his name as soon as possible. The meeting will be held from 4 to 8 April 2011.

I would like to thank you again for your kind support.

With my best regards,

AG/1119

Nicolas

Nicolas TRICOT  
Safety Assessment Section  
Division of Nuclear Installation Safety  
Wagramer Strasse 5, Room B0649  
A-1400 Vienna, Austria  
Tel: 0043 1 2600 25992

---

**From:** Michael.Case@nrc.gov [mailto:Michael.Case@nrc.gov]  
**Sent:** Monday, 07 March 2011 14:06  
**To:** TRICOT, Nicolas  
**Subject:** RE: IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"

Good morning Dr. Tricot. I just wanted to let you know that we're working on this. I'll update you when I hear back from the offices with the appropriate experts.

Best regards,

Mike Case

---

**From:** N.Tricot@iaea.org [mailto:N.Tricot@iaea.org]  
**Sent:** Tuesday, March 01, 2011 8:39 AM  
**To:** Case, Michael  
**Subject:** IAEA Safety Guide on "Design of Auxiliary and Supporting Systems in Nuclear Power Plants"

Dear Dr Case

As you probably know already, I am working on developing a new IAEA Safety Guide on "**Design of Auxiliary and Supporting Systems in Nuclear Power Plants**". The development of this IAEA Safety Guide has been approved by the IAEA Commission of Safety Standards last November 2010 and the related Document Preparation Profile (DPP) that includes the roadmap for development is also attached herewith.

However, the following should be considered:

- a) the choice to include cross references to existing recommendation to avoid duplication of recommendations;*
- b) a step on performing the inventory of current recommendations in various existing safety guides prior to the commencement of the drafting of the guide in the guide development process. NUSSC requested the Secretariat to present this inventory (b) item) at its meeting in June 2011.*

To fulfil these requests, in priority item b/, and to launch the drafting of the safety guide, I would appreciate it if you could assign a Japanese representative (either from the USNRC side or from the Industry side) who would be able to participate in an IAEA Consultancy Meeting, on a cost free basis to the IAEA, that is tentatively scheduled from 4 to 8 April 2011 or 11 to 15

April (these dates are still flexible). Please let me know.

I would like to thank you in advance for your support.

With my kind regards,

Nicolas TRICOT

Safety Assessment Section

Division of Nuclear Installation Safety

Wagramer Strasse 5, Room B0649

A-1400 Vienna, Austria

Tel: 0043 1 2600 25992

<<dpp440.pdf>>

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**From:** [West, Stephanie](#)  
**To:** [RidsAcrsAcnw\\_Mail](#); [CTR Resource](#); [Howard, Kent](#); [Karagiannis, Harriet](#); [Santos, Cayetano](#); [Dias, Antonio](#); [Diaz-Sanabria, Yoira](#)  
**Cc:** [Orr, Mark](#); [Boyce, Tom \(RES\)](#); [Case, Michael](#)  
**Subject:** Draft Final Regulatory Guide 8.2, Administrative Practices in Radiation Surveys and Monitoring  
**Date:** Friday, March 25, 2011 2:24:08 PM  
**Attachments:** [ML110700395.APK](#)

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Greetings for the Regulatory Guide Development Branch,

This memorandum is written to provide the Advisory Committee on Reactor Safeguards (ACRS) an advanced copy of draft final revision 1 of Regulatory Guide 8.2, "Administrative Practices in Radiation Surveys and Monitoring."

Revision 1 of Regulatory Guide 8.2 was issued for public comments as draft regulatory guide DG-8035 on August 30, 2010 (75 FR 52996) and the public comment period closed on October 29, 2010. The draft guide has been revised to incorporate public comments, converted to the final regulatory guide format, and is now in final concurrence.

The initial version of RG 8.2 was issued in 1973 to endorse American National Standards Institute (ANSI) Standard N13.2-1969, "Administrative Practices in Radiation Monitoring (A Guide for Management)." This standard has been withdrawn and it is no longer available from the ANSI. Additionally the Nuclear Regulatory Commission (NRC) has revised 10 CFR Part 20, "Standards for Protection Against Radiation," developed NUREG-1556, "Consolidated Guidance about Materials Licenses," and NUREG-1736, "Consolidated Guidance: 10 CFR Part 20-Standards for Protection against Radiation" to further promulgate the NRC's regulatory positions. This revised draft regulatory guide describes acceptable administrative practices for surveys and monitoring of ionizing radiation in licensed institutions.

We request the ACRS determine whether they wish to review Regulatory Guide 8.2 prior to it being issued as final.

Mark Orr

AG/1120

Attachment ML110700395.APK (107 Bytes) cannot be converted to PDF format.

**Beasley, Benjamin**

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**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 2:35 PM  
**To:** Bensi, Michelle; Criscione, Lawrence; Ibarra, Jose; Kauffman, John; Killian, Lauren; Lane, John; Perkins, Richard; Reisifard, Mehdi; Salomon, Arthur; Smith, April; Wegner, Mary  
**Subject:** I have timesheets. (EOM)

**From:** [Koshy, Thomas](#)  
**To:** [Case, Michael](#); [Richards, Stuart](#)  
**Subject:** Ramadan's Battery working group meeting In Qebec  
**Date:** Friday, March 25, 2011 2:42:53 PM  
**Importance:** High

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Ms. Ramadan had been a member of the IEEE Battery working group. The PES Stationary Battery Committee will be hosting its summer meeting in Laval, Quebec from June 26-June 30<sup>th</sup>. Continued participation in this area would be beneficial for Lilly's knowledge and agency interest in endorsing standards.

This working group is associated with the development and revisions to the following standards:

IEEE Standard 535, "IEEE Standard for qualification of Class IE Lead Storage Batteries for Nuclear Power Generating Stations,"

IEEE Standard 946, "IEEE Recommended Practice for Design of DC Auxiliary Power Systems for Generating Stations,"

IEEE Standard 1189, "IEEE Guide for Battery Selection," and

IEEE Standard 1492, "IEEE Guide for Selection and Use of Battery Monitoring Equipment in Stationary Applications."

**Thomas Koshy, Chief**  
**Mechanical & Electrical Engineering Branch**  
**Division of Engineering**  
**Office of Research**  
**U S Nuclear Regulatory Commission**  
**Tel: (301) 251-7663**

AG/1122



**From:** [West, Stephanie](#)  
**To:** [RES DE](#)  
**Subject:** Timesheets  
**Date:** Friday, March 25, 2011 2:54:51 PM

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Please remember to complete your timesheets, as Phil and I will be printing first thing Monday Morning.

Thanks,

Stephanie West  
Administrative Assistant, RES/DE  
US Nuclear Regulatory Commission  
ph: 301-251-7619  
fax: 301-251-7425  
[stephanie.west@nrc.gov](mailto:stephanie.west@nrc.gov)

AG/1123

**Kauffman, John**

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**From:** Killian, Lauren  
**Sent:** Friday, March 25, 2011 3:01 PM  
**To:** Kauffman, John  
**Subject:** Out of Office: OEGIB Weekly Activities Summary for 3/21-25/2011

I am away from the office through April 11th. If you need assistance before I return, please contact my supervisor [Benjamin.Beasley@nrc.gov](mailto:Benjamin.Beasley@nrc.gov) or my co-worker [John.Kauffman@nrc.gov](mailto:John.Kauffman@nrc.gov).

Thank you,  
Lauren Killian

-----  
Reliability and Risk Engineer  
U.S. Nuclear Regulatory Commission  
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AG / 1124

**From:** [West, Stephanie](#)  
**To:** [RES International Travel Dist](#)  
**Cc:** [Case, Michael](#); [Lorette, Phillip](#); [Rivera-Lugo, Richard](#)  
**Subject:** S. Richards Pre-Trip - Paris, France - Serve as NRC representative to the PRG. Participate in PRG Discussions on future CSNI Work - April 2011  
**Date:** Friday, March 25, 2011 3:04:24 PM  
**Attachments:** [Pre-Trip Notification Paris PRG April 2011.doc](#)

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If you have any questions, please contact Stuart Richards at 301-251-7616.

Stephanie West  
Administrative Assistant, RES/DE  
US Nuclear Regulatory Commission  
ph: 301-251-7619  
fax: 301-251-7425  
[stephanie.west@nrc.gov](mailto:stephanie.west@nrc.gov)

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**From:** Richards, Stuart  
**Sent:** Thursday, March 24, 2011 11:56 AM  
**To:** West, Stephanie  
**Subject:** Pre-Trip

AG/1125

# International Travel Pre-Trip Notification

This is due 30 days before trip start date. Please complete the light shaded area.

## TRAVEL INFORMATION

|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |              |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------|
| • <b>Traveler Name(s):</b><br>(include Office/Division)                                                                            | Stuart Richards RES/DE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | • <b>Phone #(s):</b>               | 301-251-7616 |
| • <b>E-mail Address(es):</b>                                                                                                       | Stuart.Richards@nrc.gov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • <b>Location(s):</b>              | CSB 5-A02    |
| • <b>Multiple Travelers:</b>                                                                                                       | <input checked="" type="checkbox"/> <b>Less than 4</b> <input type="checkbox"/> <b>4 or more</b> (see below)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |              |
| If 4+, Coordinating Office:                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |              |
| If 4+, Office Director Approvals:                                                                                                  | (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>CHOOSE ONE OF THE FOLLOWING</b> | Date:        |
| (Office Director approves travelers                                                                                                | (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>CHOOSE ONE OF THE FOLLOWING</b> | Date:        |
| from his/her office only)                                                                                                          | (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>CHOOSE ONE OF THE FOLLOWING</b> | Date:        |
|                                                                                                                                    | (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>CHOOSE ONE OF THE FOLLOWING</b> | Date:        |
| ADAMS Accession Number:<br>[If 4+, Submit NRC Daily Note with ML# of pre-trip notification 30 days before trip start date]         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |              |
| • <b>Travel Dates</b> [mm/dd/yyyy]:                                                                                                | 04/25/2011 - 04/28/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |              |
| • <b>Destination(s)</b> [City, Country]:                                                                                           | Paris, France                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |              |
| • <b>Framework:</b>                                                                                                                | <input type="checkbox"/> <b>Export and Import Licensing</b> <input type="checkbox"/> <b>Multilateral Cooperation and Assistance</b><br><input type="checkbox"/> <b>Treaties, Agreements, and Conventions</b> <input checked="" type="checkbox"/> <b>International Cooperative Research</b><br><input type="checkbox"/> <b>Bilateral Cooperation and Assistance</b> <input type="checkbox"/> <b>Other (specify)</b>                                                                                                                                                                                                                                                       |                                    |              |
| • <b>International Organization:</b>                                                                                               | <input checked="" type="checkbox"/> <b>NEA/CSNI</b> <input type="checkbox"/> <b>NEA/CNRA</b> <input type="checkbox"/> <b>NEA/RWMC</b> <input type="checkbox"/> <b>NEA/MDEP</b><br><input type="checkbox"/> <b>NEA/CRPPH</b> <input type="checkbox"/> <b>IAEA/NS(TRANSSC)</b> <input type="checkbox"/> <b>IAEA/NS(WASSC)</b><br><input type="checkbox"/> <b>IAEA/(NUSSC)</b> <input type="checkbox"/> <b>IAEA/NS(RASSC)</b> <input type="checkbox"/> <b>IAEA/Safeguards</b><br><input type="checkbox"/> <b>IAEA/NS</b> <input type="checkbox"/> <b>IAEA/NE</b> <input type="checkbox"/> <b>IAEA/Technical Cooperation</b><br><input type="checkbox"/> <b>Other:</b> _____ |                                    |              |
| • <b>Purpose of Travel:</b>                                                                                                        | Attend the CSNI Program Review Group (PRG) Meeting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |              |
| • <b>Desired Outcome:</b>                                                                                                          | Influence the PRG recommends for CSNI projects to be consistent with NRC needs and policy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |              |
| • <b>Traveler Role(s):</b>                                                                                                         | Serve as the NRC representative to the PRG. Participate in PRG discussions on future CSNI work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |              |
| • <b>Is this an NRC Core or Non-Core Trip?</b><br>[Core means NRC-Funded. Non-Core is externally funded or travel to Canada]       | <input checked="" type="checkbox"/> Core <input type="checkbox"/> Non-Core                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |              |
| • <b>Is there a speech or presentation to be given?</b><br>[If yes, send ADAMS ML# of presentations in an EDO One Week Look Ahead] | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |              |
| • <b>Are policy issues or other items of Commission interest to be raised?</b>                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |              |
| If yes, how will the Commission be informed?                                                                                       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |              |

**From:** [Ibarra, Jose](#)  
**To:** [Rini, Brett](#)  
**Cc:** [Coe, Doug](#); [Coyne, Kevin](#)  
**Subject:** Information Digest  
**Date:** Friday, March 25, 2011 3:57:34 PM

---

Brett,

This is DRA input for the Information Digest:

We want to keep in the text on page 56 the following sub bullets:

***Experience gained from operating experience  
Probabilistic risk assessment methods***

And we want to keep the following bullet:

***Examine human factors issues including safety culture and computerization and automation of control rooms.***

We want to keep in the text on page 58 the following bullet:

***Halden Reactor Project in Norway.  
For over 50 years, this collaboration has allowed for research and development of fuel, reactor internals, plant control and monitoring, human factors, and human reliability analysis.***

Thanks. Jose

AG/1126

**From:** [Johnson, Kevin](#)  
**To:** [Demoss, Gary](#); [Coe, Doug](#); [Siu, Carolyn](#)  
**Subject:** RE: Document Status  
**Date:** Friday, March 25, 2011 4:29:10 PM

---

The package has been forwarded to the FO for review.

Kevin

---

**From:** Johnson, Kevin  
**Sent:** Friday, March 25, 2011 8:57 AM  
**To:** Demoss, Gary; Coe, Doug; Siu, Carolyn  
**Subject:** Document Status

Good Morning!

The package has been reviewed by the FO and is being returned to DRA/AA for revisions.

Kevin

One Team/One Goal

Kevin D. Johnson  
Research Information Specialist  
Office of Nuclear Regulatory Research  
RES/PMDA/HCCB  
Email: [Kevin.Johnson@nrc.gov](mailto:Kevin.Johnson@nrc.gov)  
O6A06a  
Office: 301-251-7665

AG/1127

**From:** Coyne, Kevin (RES/DRA)  
**To:** Dehn, Jeff  
**Cc:** Siu, Nathan; Coe, Doug; Correia, Richard; Santiago, Patricia; Ghosh, Tina; Helton, Donald; Bone, Alysia; Sangimino, Donna-Marie; Brock, Terry; Stutzke, Martin; Demoss, Gary  
**Subject:** Coordination for IRSN/NRC Meeting on Cost Benefit Analysis  
**Date:** Friday, March 25, 2011 4:31:50 PM

---

Jeff –

I have been working with Patrick Momal from IRSN and I think we have developed a solid draft agenda for a three day meeting on cost-benefit analysis. The meeting would be at the NRC headquarters complex sometime during the period of May 10 – June 17 (IRSN would prefer to have the meeting run from Tuesday through Thursday). As we previously discussed, I'd like to exit the loop on actually setting the details of the meeting and turn the actual coordination over to the appropriate folks in OIP if possible. Our key points of contact at IRSN are:

Patrick Momal, email: [patrick.momal@irsn.fr](mailto:patrick.momal@irsn.fr)  
Ludivine Pascucci-Cahen, email: [ludivine.pascucci-cahen@irsn.fr](mailto:ludivine.pascucci-cahen@irsn.fr)

The draft agenda includes the following items:

**Day 1 (Tuesday)**

- IRSN presentation on the economic cost of severe accidents (2 hours) – IRSN & NRC staff
- NRC Regulatory Analysis Process use of Cost-Benefit Analysis (2 hours) – NRC/Office of Nuclear Reactor Regulation (NRR)
- Open Discussion on Cost/Benefit for Regulatory Applications (3 hours) – IRSN & NRR
- Other?

**Key NRC Staff**

Brian Richter (NRR/DPR, supervisor – Chris Regan)  
Tim Reed (NRR/DPR, supervisor – Shana Helton)  
Kevin Coyne (RES/DRA, supervisor – Doug Coe)  
Nathan Siu (RES/DRA, supervisor – Doug Coe)  
Marty Stutzke (RES/DRA, supervisor – Doug Coe)  
Don Helton (RES/DSA, supervisor – Kevin Coyne)  
Alysia Bone (RES/DSA, supervisor – Kevin Coyne)  
FSME Rulemaking Staff????

**Day 2 (Wednesday)**

- Planned improvements to the economic MELCOR Accident Consequence Code System (MACCS2) model (2 hours) – NRC/Office of Nuclear Regulatory Research (RES), Sandia National Lab (SNL)
- Discussion on Residual Risk Diagnosis Diagram (R2D2) (1 hour) – IRSN
- Plans for a Comprehensive Site Level 3 Probabilistic Risk Assessment (PRA) (1 hour) - RES
- Open Discussion on research related to Cost/Benefit Analysis (2 hours) – IRSN, RES, Office of Nuclear Security and Incident Response.

AG/1128

### Key NRC Staff

Tina Ghosh (RES/DSA, supervisor – Pat Santiago)  
Carlos Navarro (RES/DSA, supervisor – Pat Santiago)  
Nate Bixler (SNL, email: [nbixler@sandia.gov](mailto:nbixler@sandia.gov))  
Dan Hudson (RES/DRA, supervisor - Doug Coe)  
Nathan Siu (RES/DRA, supervisor – Doug Coe)  
Marty Stutzke (RES/DRA, supervisor – Doug Coe)  
Alysia Bone (RES/DSA, supervisor – Kevin Coyne)  
Mary Drouin (RES/DRA, supervisor – Gary DeMoss)  
Terry Brock (RES/DSA, supervisor – Stephanie Bush-Goddard)  
Patricia Milligan (NSIR)  
Randy Sullivan (NSIR)

### Day 3 (Thursday)

- Perspectives from the Department of Homeland Security
- Other? (perhaps NRC headquarters emergency operations center tour and overview of NRC emergency response)
- Wrap up and plans for future interactions

### Key NRC Staff

NSIR, Operations Center Staff?  
Nathan Siu (RES/DRA, supervisor – Doug Coe)  
Marty Stutzke (RES/DRA, supervisor – Doug Coe)  
Alysia Bone (RES/DSA, supervisor – Kevin Coyne)

### Key DHS Staff

Tony Cheesebrough (email: [tony.cheesebrough@hq.dhs.gov](mailto:tony.cheesebrough@hq.dhs.gov), phone: (202) 343-1739 (Office))

\*\*\*\*\*

Although I indicated specific NRC on each day, obviously it would be nice if staff could also participate on the discussions on the other days if they desire.

So, will this be enough information for OIP to get the ball rolling? I know with the added workload for OIP over the last few weeks, this isn't ideal timing to start this process, but I was worried that the coordination would only become more difficult if we delayed much longer. As you recall from the IRSN coordination after the RIC, this was a topic of interest to Jacques Repussard and, given our increasing focus on potentially updated some of our cost-benefit guidance, I didn't want to let the opportunity slip away.

Thanks again for your help –

Kevin



**From:** [Coyne, Kevin](#)  
**To:** [Wood, Jeffery](#); [Appignani, Peter](#)  
**Cc:** [Ibarra, Jose](#); [Coe, Doug](#); [Correia, Richard](#); [Ott, William](#)  
**Subject:** NRR Dam Failure Frequency Information notice  
**Date:** Friday, March 25, 2011 4:35:04 PM

---

Pete, Jeff –

I just spoke with Fernando, and he is going to put the concurrence package for the dam failure IN into the RES mailroom early next week. NRR is asking for PRAB and ETB concurrence so you should probably expect to see a RES ticket soon.

Kevin

AG/1129

**From:** Bellosi, Susan  
**To:** Coe, Doug  
**Subject:** Out of Office: NRC Announcement for your review.  
**Date:** Friday, March 25, 2011 4:38:25 PM

---

I will be out of the office Monday, 2/28. If you need immediate assistance, please contact Lynn Ronewicz or Stacy Schumann, 492-3500.

Thanks.

AG 1130

## Beasley, Benjamin

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**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 4:56 PM  
**To:** Siu, Carolyn  
**Subject:** RE: John is ready.

Thanks.

ETB is done and OEGIB is done except for Michelle.

---

**From:** Siu, Carolyn  
**Sent:** Friday, March 25, 2011 4:53 PM  
**To:** Beasley, Benjamin  
**Subject:** John is ready.

## Carolyn Siu

Fiction reveals truths that reality obscures.

Division line: 301-251-7430

Direct line: 301-251-7568

Fax: 301-251-7424

Email: [Carolyn.Siu@nrc.gov](mailto:Carolyn.Siu@nrc.gov)

**From:** [ManageBetter.biz Insider](#)  
**To:** [Case, Michael](#)  
**Subject:** Improve staffers' problem-solving; Bar cliques from teams; Discipline? Try mediation; and more ...  
**Date:** Friday, March 25, 2011 4:56:35 PM

#### Motivational Manager

### Take charge of your team from the beginning

Teamwork doesn't just happen. It usually takes a focused effort from a manager...  
*Share on:* [Facebook](#) | [MySpace](#) | [Twitter](#) | [Digg](#)

#### Leading for Results

### Six steps to improve employees' problem-solving

As a manager, you've got to teach your employees how to solve common workplace problems on their own. Share this step-by-step strategy with them...  
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#### Employee Recruitment and Retention

### Engage and retain employees with active career guidance

Organize your efforts to develop your employees' skills and strengthen your ties with this advice...  
*Share on:* [Facebook](#) | [MySpace](#) | [Twitter](#) | [Digg](#)

#### Communication Solutions

### When a worker requires discipline, try opting for mediation

Disciplining workers can end up escalating problems. Fortunately, there's an alternative that provides the following benefits...  
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#### Managers Intelligence Report

### Teams are no place for cliques

If you want to keep your team productive and healthy, you have to keep the "in" crowd" from taking over...  
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## BLOGS

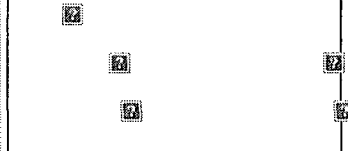
#### Efficiency

### Work Life Balance: Defining it for Yourself

As each of us is different, how we do our job and set our priorities is an individual undertaking. The same is true when defining who we are as people and determining our personal responsibility. The only person who can...  
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#### Coaching Success

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**Price: \$139**  
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Wednesday, May 4, 2011 • 2-3:15 p.m. Central

**Tweet, talk or text: How to effectively communicate in a high-tech world**  
**Price: \$139**  
**Member Price: \$99**  
Wednesday, April 20, 2011  
2-3:15 p.m. Central

**25 tips to lead your team through change**  
**Price: \$139**  
**Member Price: \$99**  
Wednesday, April 6, 2011  
2-3:15 Central

**Efficiency techniques for administrative professionals**  
**Price: \$139**  
**Member Price: \$99**  
Tuesday, March 29, 2011  
2 - 3:15 p.m. Central

#### FEATURED BLOGGER:

**K.J. McCorry** is the CEO of [Efficiency Enterprises @ Inc.](#), a professional productivity, efficiency and sustainability consulting company based out of Boulder, Colorado. K.J.'s work in office process simplification has been recognized locally and nationally in the New York Times, International Herald Tribune, Chicago Tribune, Real Simple, Better Homes & Gardens with TV and radio appearances on the Do It Yourself Network, The Peter Boyles Show, and World Talk Radio. She is also the author of *Organize Your Work Day In No Time*, released in April 2005 by Que Publishing. She is currently working on her second book on becoming a 'paperless' office.

#### BECOME A MEMBER

**Leading for Results**

AG/1132

### PowerPoint Presentation Tip for Spanish-Speaking Audience Members

I recently delivered a presentation skills training program to a group of urologists from Mexico, Central and South America - with the training conducted in New York. These physicians mostly present slides in Spanish, and they taught me a few...

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Spark

### I'm Certain About Uncertainty

We all want the guarantee--our lovers will love us forever, our investments will increase in value, our jobs will last until we retire, our computers will never crash. If you are over the age of 15, you have come to learn there are no guarantees--your pa

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## WHAT OUR MEMBERS ARE READING NOW



*Managers Intelligence Report*



**Time-management tip: Prioritize tasks**

If your to-do list is so crowded you don't know what to do first, try this technique...



*Leading for Results*



**Keep telecommuters connected this way**

Managers frequently worry that telecommuting employees will lose their feeling of connection with their company while working at home...



*Employee Recruitment and Retention*



**Experience: Good or bad? It depends on several factors**

Experience may be a legitimate factor, but it shouldn't be the only one you use...



*Communication Solutions*



**Tactics to encourage workers to share their ideas**

There's no single answer, but here are some ideas...



*Motivational Manager*



**Look for the ideal world in your workplace**

Motivation and engagement depend on the right match of values between employees and the organizations they work for...

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### The

#### Manager's Intelligence Report

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### The

#### Motivational Manager

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Price: \$149

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Ragan Communications | 111 E. Wacker Dr Ste. 500 | Chicago, IL 60601 | [cservice@ragan.com](mailto:cservice@ragan.com)

This message was sent to michael.case@nrc.gov  
#BXNDZLN

**Beasley, Benjamin**

---

**From:** Beasley, Benjamin  
**Sent:** Friday, March 25, 2011 5:00 PM  
**To:** Criscione, Lawrence; Reisifard, Mehdi; Smith, April; Perkins, Richard; Ibarra, Jose  
**Subject:** There are old timesheets in the folder with Carolyn that need your signature. (EOM)

**From:** [Coyne, Kevin](#)  
**To:** [Coe, Doug](#)  
**Subject:** TA posting and a few other items...  
**Date:** Friday, March 25, 2011 5:04:34 PM

---

Doug –

I haven't had a chance to pull together the TA package yet, but I'll try to work on it a bit next week. Other items of interest:

- Erasmia said that the POC meeting for N6673 went well
- We had the midyear initial alignment meeting – I sent the preliminary spreadsheet by separate email. We're at 40% "O" with a few on the E/O bubble. Carolyn set up a meeting on Tuesday for the final alignment.
- Scheduling note went up with an NEI "TBD" for the speaker – we never got firm confirmation from NEI, though Biff did return the call (Biff apparently needed to vet things through his management before specifically committing to the meeting – though it's hard to imagine that they would pass on this opportunity). Both Brian and Kathy looked at the note before it went up.
- We keep getting hit with IRC support requests – to help coordinate this better, Brett Rini is taking a lead to consolidate RES volunteers.
- Should get a ticket on the NRR dam failure frequency IN next week. I'm not sure how this will go with the front office, but NRR is just asking for ETB/PRAB concurrence (rather than Division director or office director).
- Alan has the lead for follow-up on the GG-14 vacancy next week – he will coordinate with Michelle Williams and keep the process moving (e.g., reference checks, etc.)
- No new guidance on how to handle the MSNBC FOIA yet – I'm hoping the computer folks will at least be able to print out hardcopies of the emails to make it easier for us to go through them.

Overall, another exciting day in DRA!

Thanks again for the opportunity to see the Division-level perspective on things during the last few weeks –

Kevin

AG/1134

**From:** [Coyne, Kevin](#)  
**To:** [RES DRA](#)  
**Cc:** [Flory, Shirley](#); [Veltri, Debra](#); [Correia, Richard](#); [Harris, Charles](#)  
**Subject:** Delegation of Authority: Peter Appignani for Kevin Coyne (DRA/PRAB) - March 28 - April 1  
**Date:** Friday, March 25, 2011 5:14:31 PM

---

Pete can be reached at (301) 251-7608.

AG/1135



*1/11/11*  
**From:** Leeds, Eric  
**To:** Holian, Brian; Galloway, Melanie; Givvines, Mary; Ferrell, Kimberly  
**Cc:** Boger, Bruce  
**Subject:** NEED TRENT BACK!  
**Date:** Friday, March 25, 2011 5:15:00 PM

---

*REL*  
We will need to swap Almas for Trent earlier than we had planned. The front office is swamped!  
We'll need to work next week. Thanks!

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

*AG/1136*

**From:** [Pat Schroeder](#)  
**To:** [Case, Michael](#)  
**Cc:** [Mary Beth Gardner](#); [Jim August](#); [Tawfik M. Raby](#); [Adams, Alexander](#); [Hull, Amy](#); [Moyer, Carol](#); [Carpenter, Gene](#); [Drouin, Mary](#); [Madden, Patrick](#); [Donald J. Spellman](#); [Robert J. Budnitz](#); [Carl Mazzola](#); [Prasad Kadambi](#)  
**Subject:** Public Review Advanced Notice of ANS Draft Standards  
**Date:** Friday, March 25, 2011 5:15:35 PM  
**Attachments:** [2011 PR Notice for NRC.pdf](#)

---

Dear Mr. Case:

Please find attached a letter from ANS Standards Board Chair Prasad Kadambi providing NRC with advanced notice of draft standards we anticipate being issued for public review and comment this year. Feel free to contact me at any time for an update.

Regards,  
Pat

Patricia Schroeder  
Standards Administrator  
American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, Illinois  
60526 USA

Tel: 708/579-8269  
Fax: 708/352-6464  
E-mail: [pschroeder@ans.org](mailto:pschroeder@ans.org)

AG/1137



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## Standards Committee

555 North Kensington Avenue  
La Grange Park, Illinois  
60526-5592 USA

Tel: +1 708 579 8269  
Fax: +1 708 352 6464  
Email: [standards@ans.org](mailto:standards@ans.org)  
[www.ans.org](http://www.ans.org)

March 25, 2011

Mr. Michael J. Case, Standards Executive  
U.S. Nuclear Regulatory Commission  
M/S 10M5  
Washington, DC 20555-0001

Subject: Public Review Advanced Notice of ANS Draft Standards in 2011

Dear Mr. Case:

Previously a request was made that we provide government agencies and key industry organizations a yearly list of draft standards that may be issued for public review. The below list of drafts that may be issued for public review in 2011 is provided for your use in planning or disseminating the information as you see fit.

Drafts released for public review are substantially complete standards that are in a relatively advanced stage of the consensus process. Such a draft generally represents a technical consensus among the most interested stakeholders within a consensus body. However, the open process required by the consensus rules may generate significant comments as a result of which substantive changes may occur, requiring further balloting and a second public review. The ANS would very much welcome comments during the public review period as this would provide the maximum opportunity to influence the end result, which is an approved American National Standard that conforms with all the requirements of the American National Standards Institute.

Each of our consensus committees was queried to provide you a list of draft standards that could potentially be released for public review this year. The drafts are listed by their managing consensus committee and are as follows:

N16

No drafts expected.

N17

ANS-19.3, "Determination of Steady-State Neutron Reaction-Rate Distributions and Reactivity of Nuclear Power Reactors" (revision of ANSI/ANS-19.3-2005)

ANS-19.11, Calculation and Measurement of the Moderator Temperature Coefficient of Reactivity for Pressurized Water Reactors (revision of ANSI/ANS-19.11-1997; R2002)

Nuclear Facilities Standards Committee

ANS-2.15, "Criteria for Modeling and Calculating Atmospheric Transport of Routine Releases from Nuclear Facilities" (new standard)

Letter to M. Case

Page 2

ANS-2.21, "Criteria for Assessing Atmospheric Effect on the Ultimate Heat Sink Nuclear Facility Sites" (new standard; 2nd PR of full draft)

ANS-41.5, "Verification and Validation of Radiological Data for Use in Water Management and Environmental Remediation" (new standard; 2nd PR of substantive changes only)

ANS-53.1, "Nuclear Safety Criteria and Safety Design Process for Modular Helium-Cooled Reactor Plants" (new standard; 2nd PR of full draft)

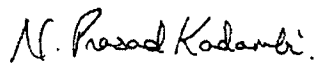
Risk Informed Standards Committee

ANS-58.22, "Low Power and Shutdown PRA Methodology" (new standard; committee review for trial use)

ANS-58.24, "Severe Accident Progression and Radiological Release (Level 2) PRA Methodology to Support Nuclear Installation Applications" (new standard; committee review for trial use)

If you have any questions on or would like an update, please contact me or direct them to Pat Schroeder, ANS Standards Administrator, by telephone at 708-579-8269 or by e-mail at [pschroeder@ans.org](mailto:pschroeder@ans.org).

Sincerely,



N. Prasad Kadambi, Ph.D., P.E.  
ANS Standards Board Chair

Cc: Donald J. Spellman, ANS Standards Board Vice Chair  
ANS Consensus Committee Chairs  
Patrick Madden, N17 NRC Representative  
Alexander Adams, N17 NRC Alternate  
Gene Carpenter, NFSC NRC Representative  
Amy Hull, NFSC NRC Alternate  
Mary Drouin, RISC NRC Representative  
Mary Beth Gardner, Publisher, ANS Scientific Publications

*NE*

**From:** Araguas, Christian *NRO*  
**To:** Araguas, Christian; Dorman, Dan; Haney, Catherine; NMSS TA; Holahan, Gary; Johnson, Michael; NRO Deputy Division Directors; NRO Division Directors; NRO TA; Boger, Bruce; Grobe, Jack; Leeds, Eric; Wertz, Trent; Correia, Richard; Diec, David; Dudek, Michael; Layton, Michael; McDermott, Brian; Miller, Chris; Shropshire, Alan; Wiggins, Jim; Burns, Stephen; Jones, Bradley; Zabler, Marian; Armstrong, Kenneth; Coe, Doug; Gibson, Kathy; Hudson, Daniel; Lui, Christiana; Santiago, Patricia; Sheron, Brian; Uhle, Jennifer; Sanfilippo, Nathan; Zaki, Tarek; Basu, Sudhamay; Scott, Michael; Montgomery, Shandeth; Raione, Richard; Tiruneh, Nebiyu; Vrahoretis, Susan; Kirkwood, Sara; Roach, Edward; NRO DSRA Branch Chiefs; Schmidt, Jeffrey; Caruso, Mark; Landry, Ralph; Dube, Donald; Rasmussen, Richard; Peralta, Juan; Kowal, Mark; Beardsley, James; Junge, Michael; Coffin, Stephanie; Giacinto, Joseph; Cozens, Ian; Rav, Neil; Weber, Carl; Norato, Michael; Wright, Lisa (Gibney); Lockhart, Denise  
**Cc:** Magruder, Stewart; Reckley, William; Mayfield, Michael; NRO ARP ARB2 Distribution; NRO ARP ARB1 Distribution  
**Subject:** Advanced Reactor Program (ARP) Weekly Update- Week of March 28, 2011.  
**Date:** Friday, March 25, 2011 5:27:04 PM  
**Attachments:** ARP Internal Stakeholder Weekly Update.docx

---

All,

Attached is the list of upcoming internal / external meetings related to advanced reactors. In an effort to keep our internal stakeholders informed of upcoming advanced reactor activities, this document will be sent weekly. Please let me know if you would like to be removed from the list or if I should be including anyone else. Thanks.

For those that are interested, this document will be located on the Advanced Reactor Sharepoint site at the link provided below, <http://epm.nrc.gov/Licensing/Advanced%20Reactor%20Program/default.aspx>. You should see the file under the links section on the right hand column.

Christian Araguas  
Technical Assistant  
Advanced Reactor Program  
Office of New Reactors

AG/1138

**ARP WEEKLY UPDATE**  
**Week of March 28, 2011**

**Significant Meetings in CY 2011**

Internal Meetings:

- ARP All Hands Meeting March 28, 2011
- Commission Meeting on SMRs March 29, 2011
- ACRS Full Committee Meeting on Emergency Planning for SMRs April 7, 2011

Periodic Meetings:

- NRC/NEI SMR Periodic Workshop April 20, 2011
- NRC/NEI SMR Periodic Workshop May 25, 2011
- NRC/NEI SMR Periodic Workshop July 13, 2011

iPWR Meetings:

- mPower Meetings
  - IST Facility and Test Plan / Design Basis LOCA PIRT Insights/Results April 19, 2011
  - ECCS Design / Fuel Assembly Mechanical Design June 21, 2011
- NuScale Meetings

NGNP Meetings:

LMR Meetings:

Conferences:

- Building the Value Chain for Commercializing SMRs (Infocast/Washington DC) March 30-31, 2011
- International Framework for Nuclear Cooperation April 19-21, 2011
- 1<sup>st</sup> Annual SMR Conference – Organized by Nuclear Energy Insider April 19-20, 2011
- ICAPP Meeting (ANS/Nice, France) May 2-5, 2011
- Platts SMR Conference May 23-24, 2011

**Significant Activities**

**From:** Dempsey, Heather  
**To:** Donaldson, Leslie; Valentin, Andrea; Gibson, Kathy; Richards, Stuart; Case, Michael; Coe, Doug; Uhle, Jennifer; Flory, Shirley; Veltri, Debra; Pope, Tia; Vera, Graciela; Lorette, Phillip; West, Stephanie; Siu, Carolyn; Greenwood, Carol; Wach, Lisa; Bano, Mahmooda; Scott, Michael  
**Cc:** Johnson, Kevin  
**Subject:** Recall: PRT Report for 3/24/11  
**Date:** Friday, March 25, 2011 5:41:48 PM

---

Dempsey, Heather would like to recall the message, "PRT Report for 3/24/11".

A6/1139

**From:** [Dempsey, Heather](#)  
**To:** [Donaldson, Leslie](#); [Valentin, Andrea](#); [Gibson, Kathy](#); [Richards, Stuart](#); [Case, Michael](#); [Coe, Doug](#); [Uhle, Jennifer](#); [Flory, Shirley](#); [Veltri, Debra](#); [Pope, Tia](#); [Vera, Graciela](#); [Lorette, Phillip](#); [West, Stephanie](#); [Siu, Carolyn](#); [Greenwood, Carol](#); [Wach, Lisa](#); [Bano, Mahmooda](#); [Scott, Michael](#)  
**Cc:** [Johnson, Kevin](#)  
**Subject:** PRT Report for 3/25/11  
**Date:** Friday, March 25, 2011 5:41:55 PM  
**Attachments:** [PRT Internal - 3-25-11.pdf](#)  
[PRT External - 3-25-11.pdf](#)

---

All:

Attached is the current Public Release Timeliness (PRT) Report for Q2 (January 1 to present). At present, we have met our objective for the timely release of internal and externally generated documents.

As a reminder, the purpose of the PRT Report is to identify documents within a defined period that appear not to have been released to the public within the time frame specified under NRC agency policy. The ADAMS Timeliness for Internally & Externally Generated Documents is a measure in RES's Operating Plan. For more information on the policy and procedures, please view the [Timely Release of Official Agency Records Web page](#).

**Current Totals for January 1 to Present:**

Internal- ~~95.7%~~ (89 of 93)  
External- ~~100%~~ (7 of 7)

Please let me know if you have any questions.

Thank you!

*Heather Dempsey*

Correspondence & Records Management Specialist  
RES/PMDA/HCCB  
Office: CSB-6A06B  
Phone: 251-7666  
Mailstop: CSB-6D20M

AG/1140



## Public Release Timeliness (PRT) Report of Internally Generated Documents

**Period Covered for this Report: January 1, 2011 through March 31, 2011 (Based on Date Actually Released to PARS)  
RES - 89 out of 93 documents (95.7%) appear to conform to release policy**

Agency policy regarding the "timely release" of publicly available documents to the public is provided in the agency's Yellow Announcement YA-00-0039 "Revised Policy Goal on Timing the Release of Documents to the Public in the ADAMS Environment" (issued May 22, 2000). This policy states, in part, that "Documents produced by the staff addressed to external entities are to be released 5 full working days after the date of the document." In addition, the policy states that "Documents produced by the staff addressed to other internal addressees or documents with no specific addressee shall be released 5 full working days after the date of the document."

The purpose of the Public Release Timeliness (PRT) Report is to inform offices of their efficiency in timely release of ADAMS documents to the public for a defined period and specifically identify (by accession number) documents which appear not to have been released to the public within the time frame specified under NRC agency policy.

Certain NRC documents have a different time period for public release, as stipulated under Yellow Announcement YA-00-0039, which had to be factored into this report generator as exceptions. In order to effectively filter these "exception" documents out, the staging queue criteria listed below is applied to documents that were not released to the public in accordance with the NRC 6th day release policy. Documents not recognized as exceptions are considered as being released late and are specifically listed on the detailed portion of the PRT report following the Summary pages. This report includes documents copied to the ADAMS Publicly Available Records System (PARS) Library during the Period of Report date range defined at the report prompt.

### Staging Queue Criteria

- Date Copied to PARS...within date range entered at "Period of Report" prompt (except 25-oct-2007 to 16-nov-2007)
- Author Affiliation...like...NRC/RES\*
- Document Date...is after...One year prior to PRT report "Start" date entered at "Period of Report" prompt

### Exceptions

- Added By User...equal...capture
- Author Affiliation...like...NRC/ACMUI
- Case/Reference Number...like...\*FOIA\*
- Docket Number...like...030\*
- Document Type...equal...Agreement States-Regulations Review
- Document Type...equal...Commission Action Memoranda (COM)
- Document Type...equal...Commission SECY Paper
- Document Type...equal...Commission Staff Requirements Memo (SRM)
- Document Type...equal...Commission Voting Record (CVR)
- Document Type...equal...Committee Letter Report
- Document Type...equal...Congressional Correspondence
- Document Type...equal...Emergency Preparedness-Emergency Plan and Post Exercise Evaluation (FEMA)
- Document Type...equal...Emergency Preparedness-Emergency Plan Exercise Objectives and Scenario
- Document Type...equal...Emergency Preparedness-Review of Emergency Plan Exercise Objectives and Scenario
- Document Type...equal...Enforcement Action
- Document Type...equal...Enforcement Notification
- Document Type...equal...Federal Register Notice
- Document Type...equal...FOIA/Privacy Act Response to Requestor
- Document Type...equal...Legal-Exhibit
- Document Type...equal...Legal-Pre-Filed Exhibits
- Document Type...equal...License-Operator License Exam, Draft
- Document Type...equal...License-Operator, Form 396, Certification of Medical Examination
- Document Type...equal...License-Operator, Form 398, Personal Qualification Statement
- Document Type...equal...License-Operator, Form 474, Simulation Facility Certification
- Document Type...equal...License-Operator, Other HQ and Regional Correspondence
- Document Type...equal...License-Operator, Part 55 Examination Related Material
- Document Type...equal...Management Directive
- Document Type...equal...Meeting Transcript
- Document Type...equal...NUREG

## Staging Queue Criteria - Exceptions (continued)

- Document Type...equal...NUREG, Draft
- Document Type...equal...OCFO Fee Policy Documentation
- Document Type...equal...OMB Clearance Material
- Document Type...equal...Privacy Impact Assessment
- Document Type...equal...Regulatory Guide
- Document Type...equal...Regulatory Guide, Draft
- Document Type...equal...Route Approval Letter to Licensee
- Document Type...equal...Safety and Compliance Inspection Record, NRC Form 591
- Keyword...like...\*+rur\*
- Keyword...like...\*NRR/DLR/OGC Email\*
- Keyword...like...\*OMB 300\*
- Keyword...like...\*Redacted Public Version\*
- Keyword...like...\*Retrofit\*
- Title...like...\*certified index\*
- Title...like...COMSECY\*
- Title...like...SECY\*
- Keyword...like...\*MLRoot\*
- Document Type...equal...NRO Safety Evaluation Report (SER)-Delayed
- Document Type...equal...Differing Professional Opinion Case File
- (Document Type...equal...Meeting Agenda) ...and... (Author Affiliation...like...NRC/ACRS\*)
- (Document Type...equal...Meeting Agenda) ...and... (Author Affiliation...like...NRC/ACNW\*)
- (Document Type...equal...Meeting Minutes) ...and... (Author Affiliation...equal...NRC/CRGR)
- (Document Type...equal...Legal-Hearing Transcript) ...and... (Author Affiliation...like...NRC/ASLBP\*)
- (Original File Name...like...NR1\*) ...and... (Addressee Affiliation...like...NRC/NRO\*)
- (Document Type...equal...Environmental Report) ...and... (Addressee Affiliation...like...NRC/FSME\*)

### Release Compliant Criteria

- Documents that DO NOT qualify as an exemption from PRT and were "Copied to PARS" more than six (6) workdays after their "Document Date", are listed on the following detailed page(s).

Report Version v1.4.14723

**NRC Internal Documents That Appear to Meet Policy for Release to the Public 1-Jan-2011 to 31-Mar-2011**

**RES - 89 out of 93 documents (95.7%) documents appear to conform to release policy**

|                                                                                                 | Author Affiliation | Document Date | Policy Release Date | DPC Folder Date | Staff Release Date | Actual Release Date |
|-------------------------------------------------------------------------------------------------|--------------------|---------------|---------------------|-----------------|--------------------|---------------------|
| NRC/RES/DRA - 0 out of 15 documents (0.0%) documents do not appear to conform to release policy |                    |               |                     |                 |                    |                     |
|                                                                                                 |                    |               |                     |                 |                    |                     |

**NRC Internal Documents That Appear to Meet Policy for Release to the Public 1-Jan-2011 to 31-Mar-2011**

**RES - 89 out of 93 documents (95.7%) documents appear to conform to release policy**

|                                                                                                    |                                                                                                                                   | Author Affiliation                     | Document Date | Policy Release Date | DPC Folder Date | Staff Release Date | Actual Release Date |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------|---------------------|-----------------|--------------------|---------------------|
| <b>NRC/RES - 3 out of 47 documents (6.4%) documents do not appear to conform to release policy</b> |                                                                                                                                   |                                        |               |                     |                 |                    |                     |
| <b>ML110530467</b>                                                                                 | Letter of Acceptance of Position with ASC INMM N15.                                                                               | NRC/RES                                | 9-Mar-11      | 17-Mar-11           | 10-Mar-11       | 18-Mar-11          | 18-Mar-11           |
| <b>ML110700023</b>                                                                                 | ORNL/NRC/LTR-247, "Structural Integrity Assessments Modular - Probabilistic Fracture Mechanics (SIAM-PFM): Users Guide for xLPR." | NRC/RES, Oak Ridge National Lab (ORNL) | 30-Sep-10     | 8-Oct-10            | 11-Mar-11       | 11-Mar-11          | 11-Mar-11           |
| <b>ML110700026</b>                                                                                 | ORNL/NRC/LTR-248, "SIAM-xLPR Version 1.0 Framework Report."                                                                       | NRC/RES, Oak Ridge National Lab (ORNL) | 30-Sep-10     | 8-Oct-10            | 11-Mar-11       | 1-Mar-11           | 11-Mar-11           |

**NRC Internal Documents That Appear to Meet Policy for Release to the Public 1-Jan-2011 to 31-Mar-2011**

**RES - 89 out of 93 documents (95.7%) documents appear to conform to release policy**

|                                                                                                       |                                                                                           | Author Affiliation                                      | Document Date | Policy Release Date | DPC Folder Date | Staff Release Date | Actual Release Date |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------|---------------------|-----------------|--------------------|---------------------|
| <b>NRC/RES/DE - 1 out of 29 documents (3.4%) documents do not appear to conform to release policy</b> |                                                                                           |                                                         |               |                     |                 |                    |                     |
| <b>ML110660292</b>                                                                                    | Enclosure re - xLPR Version 1.0 Report - Technical Basis and Pilot Study Program Results. | Electric Power Research Institute (EPRI),<br>NRC/RES/DE | 28-Feb-11     | 8-Mar-11            | 15-Mar-11       | 15-Mar-11          | 15-Mar-11           |

**NRC Internal Documents That Appear to Meet Policy for Release to the Public 1-Jan-2011 to 31-Mar-2011**

**RES - 89 out of 93 documents (95.7%) documents appear to conform to release policy**

|                                                                                                | Author Affiliation | Document Date | Policy Release Date | DPC Folder Date | Staff Release Date | Actual Release Date |
|------------------------------------------------------------------------------------------------|--------------------|---------------|---------------------|-----------------|--------------------|---------------------|
| NRC/RES/DSA - 0 out of 2 documents (0.0%) documents do not appear to conform to release policy |                    |               |                     |                 |                    |                     |
|                                                                                                |                    |               |                     |                 |                    |                     |

## Public Release Timeliness (PRT) Report of Externally Generated Documents

**Period Covered for this Report: January 1, 2011 through March 31, 2011 (Based on Date Actually Released to PARS)  
All Offices - 7 out of 7 documents (100.0%) appear to conform to release policy**

Agency policy regarding the "timely release" of publicly available documents to the public is provided in the agency's Yellow Announcement YA-00-0039 "Revised Policy Goal on Timing the Release of Documents to the Public in the ADAMS Environment" (issued May 22, 2000). This policy states, in part, that "Documents received by the NRC are to be released to the public on the 6th working day after the document is added to the ADAMS Main Library. This allows NRC staff time to review a document received by NRC to ensure no proprietary, privacy, or other sensitive information is made public.@"

The purpose of the Public Release Timeliness (PRT) Report is to inform offices of their efficiency in timely release of ADAMS documents to the public for a defined period and specifically identify (by accession number) documents which appear not to have been released to the public within the time frame specified under NRC agency policy.

Certain NRC documents have a different time period for public release, as stipulated under Yellow Announcement YA-00-0039, which had to be factored into this report generator as exceptions. In order to effectively filter these "exception" documents out, the staging queue criteria listed below is applied to documents that were not released to the public in accordance with the NRC 6th day release policy. Documents not recognized as exceptions are considered as being released late and are specifically listed on the detailed portion of the PRT report following the Summary pages. This report includes documents copied to the ADAMS Publicly Available Records System (PARS) Library during the Period of Report date range defined at the report prompt.

### Staging Queue Criteria

- Date copied to PARS...within date range entered at "Period of Report" prompt
- Date added to ADAMS ML after 1-Oct-2009
- Addressee Affiliation...like...NRC/\*
- Author Affiliation...not like...NRC\*
- Document Date...is after...One year prior to PRT report "Start" date entered at "Period of Report" prompt

### Exceptions

- Added By User...equal...capture
- Author Affiliation...like...NRC/ACMUJ
- Case/Reference Number...like...\*FOIA\*
- Docket Number...like...030\*
- Document Type...equal...Agreement States-Regulations Review
- Document Type...equal...Commission Action Memoranda (COM)
- Document Type...equal...Commission SECY Paper
- Document Type...equal...Commission Staff Requirements Memo (SRM)
- Document Type...equal...Commission Voting Record (CVR)
- Document Type...equal...Committee Letter Report
- Document Type...equal...Congressional Correspondence
- Document Type...equal...Emergency Preparedness-Emergency Plan and Post Exercise Evaluation (FEMA)
- Document Type...equal...Emergency Preparedness-Emergency Plan Exercise Objectives and Scenario
- Document Type...equal...Emergency Preparedness-Review of Emergency Plan Exercise Objectives and Scenario
- Document Type...equal...Enforcement Action
- Document Type...equal...Enforcement Notification
- Document Type...equal...Federal Register Notice
- Document Type...equal...FOIA/Privacy Act Response to Requestor
- Document Type...equal...Legal-Exhibit
- Document Type...equal...Legal-Pre-Filed Exhibits
- Document Type...equal...License-Operator License Exam, Draft
- Document Type...equal...License-Operator, Form 396, Certification of Medical Examination
- Document Type...equal...License-Operator, Form 398, Personal Qualification Statement
- Document Type...equal...License-Operator, Form 474, Simulation Facility Certification
- Document Type...equal...License-Operator, Other HQ and Regional Correspondence
- Document Type...equal...License-Operator, Part 55 Examination Related Material
- Document Type...equal...Management Directive
- Document Type...equal...Meeting Transcript

## Staging Queue Criteria - Exceptions (continued)

- Document Type...equal...NUREG
- Document Type...equal...NUREG, Draft
- Document Type...equal...OCFO Fee Policy Documentation
- Document Type...equal...OMB Clearance Material
- Document Type...equal...Privacy Impact Assessment
- Document Type...equal...Regulatory Guide
- Document Type...equal...Regulatory Guide, Draft
- Document Type...equal...Route Approval Letter to Licensee
- Document Type...equal...Safety and Compliance Inspection Record, NRC Form 591
- Keyword...like...\*+rur\*
- Keyword...like...\*NRR/DLR/OGC Email\*
- Keyword...like...\*OMB 300\*
- Keyword...like...\*Redacted Public Version\*
- Keyword...like...\*Retrofit\*
- Title...like...\*certified index\*
- Title...like...COMSECY\*
- Title...like...SECY\*
- Keyword...like...\*MLRoot\*
- Document Type...equal...NRO Safety Evaluation Report (SER)-Delayed
- Document Type...equal...Differing Professional Opinion Case File
- (Document Type...equal...Meeting Agenda) ...and... (Author Affiliation...like...NRC/ACRS\*)
- (Document Type...equal...Meeting Agenda) ...and... (Author Affiliation...like...NRC/ACNW\*)
- (Document Type...equal...Meeting Minutes) ...and... (Author Affiliation...equal...NRC/CRGR)
- (Document Type...equal...Legal-Hearing Transcript) ...and... (Author Affiliation...like...NRC/ASLBP\*)
- (Original File Name...like...NR1\*) ...and... (Addressee Affiliation...like...NRC/NRO\*)
- (Document Type...equal...Environmental Report) ...and... (Addressee Affiliation...like...NRC/FSME\*)

### Release Compliant Criteria

- Documents that DO NOT qualify as an exemption from PRT and were "Copied to PARS" more than six (6) workdays after their "Date Added", are listed on the following detailed page(s).

Report Version v1.4.14723



**NRC External Documents That Appear to Meet Policy for Release to the Public 1-Jan-2011 to 31-Mar-2011**

RES - All 7 documents were released according to policy

**NRC External Documents That Appear to Meet Policy for Release to the Public 1-Jan-2011 to 31-Mar-2011**

**RES - 0 out of 7 documents (0.0%) do not appear to conform to release policy**

|  | Addressee Affiliation | Date Added to ADAMS | Date Declared | Non-Public Pending Review | Date Reviewed for Public Release | Policy Release Date | Profile Date to be Released | Actual Release Date |
|--|-----------------------|---------------------|---------------|---------------------------|----------------------------------|---------------------|-----------------------------|---------------------|
|  |                       |                     |               |                           |                                  |                     |                             |                     |

**From:** [Sheron, Brian](#)  
**To:** [Richards, Stuart](#)  
**Cc:** [Gibson, Kathy](#); [Case, Michael](#); [Schaperow, Jason](#)  
**Subject:** RE: NUREG/CR-6920  
**Date:** Friday, March 25, 2011 5:59:39 PM

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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

AGN/1141

*REL*  
**From:** Leeds, Eric *mel*  
**To:** Brown, Frederick; Nelson, Robert  
**Cc:** Giitter, Joseph; Boger, Bruce; Grobe, Jack  
**Subject:** RE: Regional feedback  
**Date:** Friday, March 25, 2011 6:27:00 PM

---

*REL* Fred -

That's "OUT-standing support". Great work, Nelson - thank you!

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

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

*mel*  
**From:** Brown, Frederick  
**Sent:** Friday, March 25, 2011 6:10 PM  
**To:** Nelson, Robert  
**Cc:** Giitter, Joseph; Boger, Bruce; Grobe, Jack; Leeds, Eric  
**Subject:** Regional feedback

Bob,

After you left, all 4 regions passed on their thanks for the outstanding support you are providing them.

Fred

AG/1142

*MLK*  
**From:** [Leeds, Eric](#)  
**To:** [Shane, Raeann](#)  
**Cc:** [Powell, Amy](#)  
**Subject:** RE: Hill Briefing Request  
**Date:** Friday, March 25, 2011 6:42:00 PM

---

*REL*  
I understand you got a response. Sorry, but I was busy as a one-armed-paper-hanger today.  
Enjoy the weekend.

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

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**From:** Shane, Raeann *ORA*  
**Sent:** Friday, March 25, 2011 2:10 PM  
**To:** Leeds, Eric  
**Cc:** Powell, Amy  
**Subject:** Hill Briefing Request  
**Importance:** High

Eric:

We got a late request for a briefing.....Can you suggest someone who could do a phone briefing this afternoon for a staffer from Senator Alexander's Appropriations staff? He is looking for information as it relates to US plants that are similar to the Fukushima plants. Also, the "improvements" he wants info on are the things we have done to improve the Mark I containment design over time ( at a high level). I know that Chairman has stated that we have made improvements to it, or required other things.

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**From:** Swager, Curtis (Alexander) [[mailto:Curtis\\_Swager@alexander.senate.gov](mailto:Curtis_Swager@alexander.senate.gov)]  
**Sent:** Friday, March 25, 2011 9:50 AM  
**To:** Shane, Raeann  
**Subject:** RE: NRC info

Raeann,

Per our phone conversation below are some specific points I would like to discuss in a phone call.

1. reactors in operation today design basis
  - o explanation of what it means
  - o listing of reactors and their design limits (specific reference to quake zones)
  - o ground acceleration numbers relative to magnitude to quake – is this possible?
1. Development of safety requirements over time
  - o INPO, NRC, technology, operations, capital improvements
  - o Mark I containment in U.S. versus what we know about Fukushima Daiichi

Thanks,

AG/1143

Curtis

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**From:** Shane, Raeann [mailto:Raeann.Shane@nrc.gov]  
**Sent:** Friday, March 25, 2011 9:35 AM  
**To:** Swager, Curtis (Alexander)  
**Subject:** NRC info

Curtis:

My contact info is below. We will try to get something set up this morning.

Raeann Shane  
Sr. Intergovernmental and External Affairs Officer  
Office of Congressional Affairs  
U.S. NRC  
301-415-1699  
rms2@nrc.gov

**From:** Johnson, Kevin  
**To:** Sheron, Brian; Uhle, Jennifer; Sangimino, Donna-Marie; Donaldson, Leslie; Dempsey, Heather; Rini, Brett; Ramirez, Annie; Ibarra, Jose; Rivera-Lugo, Richard; Case, Michael; Richards, Stuart; Coe, Doug; Lam, Kim; Goldfeiz, Banu; Grancorvitz, Teresa; Kardaras, Tom; Valentin, Andrea; Parks, Jazel  
**Subject:** Items of Importance for the Week of 4/1/11  
**Date:** Friday, March 25, 2011 7:29:10 PM

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**DE - G20110146** – Draft Final Regulatory Guides 1.34, 1.43, 1.44, and 1.50  
Due to EDO – 3/31/11 – Current Status – With Division

**DE – WITS 200800100** – Status of the Regulatory Guide Update Program  
Due to EDO – 4/1/11 – Current Status – With FO for review

**DE – G20100585** – Groundwater Task Force Report – Dialogue on Groundwater Protection Through CSNI  
Due to EDO – 4/1/11 – Current Status – With Division

**PMDA – G20110151** – Update to the Enclosure of the 2010 Annual Report on IAEA/NEA  
..  
Due to OIP & OEDO – 3/28/11 – Current Status – With Division

**RES – 20110156** – Update of the Information Digest  
Due to Glenn Ellmers/OEDO – 3/28/11 – Current Status – With Division

**All Divisions:** FY 2011 2<sup>nd</sup> Quarter Performance Report (Op Plan)  
Due to Kim and Sibel – 3/31/11

**All Divisions** – Please keep in mind the FOIA Requests that are due this and week and after.

Thanks

Kevin

One Team/One Goal

Kevin D. Johnson  
Research Information Specialist  
Office of Nuclear Regulatory Research  
RES/PMDA/HCCB  
Email: Kevin.Johnson@nrc.gov  
O6AO6a  
Office: 301-251-7665

AG/1144

**From:** [Johnson, Kevin](#)  
**To:** [Gibson, Kathy](#); [Beasley, Benjamin](#); [Case, Michael](#); [Coe, Doug](#); [Coyne, Kevin](#); [Csontos, Aladar](#); [Demoss, Gary](#); [Donaldson, Leslie](#); [Gavrilas, Mirela](#); [Gibson, Kathy](#); [Hogan, Rosemary](#); [Hoxie, Chris](#); [Kardaras, Tom](#); [Koshy, Thomas](#); [Lee, Richard](#); [Oklesson, Edward](#); [Ott, William](#); [Peters, Sean](#); [Richards, Stuart](#); [Rini, Brett](#); [Salley, MarkHenry](#); [Santiago, Patricia](#); [Sheron, Brian](#); [Srinivasan, Makuteswara](#); [Sydnor, Russell](#); [Sangimino, Donna-Marie](#); [Uhle, Jennifer](#); [Cupidon, Les](#); [Zabel, Joseph](#); [Dempsey, Heather](#); [DO, HA](#); [Dion, Jeanne](#); [Ibarra, Jose](#); [Rivera-Lugo, Richard](#); [Ramirez, Annie](#); [Kardaras, Tom](#); [Valentin, Andrea](#)  
**Subject:** ATMIS REPORT - 3/25/2011  
**Date:** Friday, March 25, 2011 7:48:37 PM  
**Attachments:** [rptCombinedReportByDivision.pdf](#)

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ATTACHED

ATMIS REPORT – 3/25/2011

KEVIN

One Team/One Goal

Kevin D. Johnson  
Research Information Specialist  
Office of Nuclear Regulatory Research  
RES/PMDA/HCCB  
Email: [Kevin.Johnson@nrc.gov](mailto:Kevin.Johnson@nrc.gov)  
O6AO6a  
Office: 301-251-7665

AG/1145



Action Items for Division DE

| Task Source  | Roadmap                  | Reference     | DIR/Branch | Task Description                                                                              | Special Instructions                                                                                                                                                                                               | Current Status      | Responsible  |
|--------------|--------------------------|---------------|------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| RES #2010478 | <input type="checkbox"/> | EDO #20110146 | RES NONE   | Draft Final Regulatory Guides 1.34, 1.43, 1.44, and 1.50 (EDATS:OEDO-2011-0170) (Due to FO) ; | Please prepare response to ACRS for the signature of the EDO. Add the Commission and SECY as cc's. Also, include: RidsAcrsAcnw_MailCTR to your distribution on the concurrence page. USE SUBJECT LINE IN RESPONSE. |                     | Michael Case |
|              |                          |               |            | <b>Milestone Description</b>                                                                  | <b>Original Dat</b>                                                                                                                                                                                                | <b>Revised Date</b> |              |
|              |                          |               |            | Due to FO                                                                                     | 3/28/2011                                                                                                                                                                                                          |                     |              |
|              |                          |               |            | Briefing/FO                                                                                   | 3/29/2011                                                                                                                                                                                                          |                     |              |
|              |                          |               |            | Due to EDO                                                                                    | 3/31/2011                                                                                                                                                                                                          |                     |              |
| RES #2010480 | <input type="checkbox"/> |               | RES NONE   | Senior Performance Official (SPO) Reports (Ticket 1) (Task 1)                                 | Task 1: Divisions provide input to central SPO and RES self-assessment                                                                                                                                             |                     | Michael Case |
|              |                          |               |            | <b>Milestone Description</b>                                                                  | <b>Original Dat</b>                                                                                                                                                                                                | <b>Revised Date</b> |              |
|              |                          |               |            | Task 1                                                                                        | 3/23/2011                                                                                                                                                                                                          | 3/28/2011           |              |
| RES #2010501 | <input type="checkbox"/> |               | RES NONE   | ACRS Biennial Review and ROMA Update (Task 1)                                                 | T1, Enter the relevant technical area T2, Review the scope, T3, Review the current Need entry, Also, please review the attached email for detail instructions and milestones as it pertains to the action item.    |                     | Michael Case |
|              |                          |               |            | <b>Milestone Description</b>                                                                  | <b>Original Dat</b>                                                                                                                                                                                                | <b>Revised Date</b> |              |
|              |                          |               |            | Task 1                                                                                        | 3/28/2011                                                                                                                                                                                                          |                     |              |
|              |                          |               |            | Task 3                                                                                        | 3/28/2011                                                                                                                                                                                                          |                     |              |
|              |                          |               |            | Task 2                                                                                        | 3/28/2011                                                                                                                                                                                                          |                     |              |

Action Items for Division DE

| Task Source  | Roadmap                  | Reference       | DIR/Branch | Task Description                                                                                                                                                            | Special Instructions                                                                                | Current Status      | Responsible  |
|--------------|--------------------------|-----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------|--------------|
| RES #2010509 | <input type="checkbox"/> |                 | RES NONE   | MD and Handbook 3.7, "NUREG-SERIES PUBLICATIONS" AND MD and Handbook 3.11, "CONFERENCES AND CONFERENCE PROCEEDINGS" (Due to Joe Zabel)                                      | Please review the Management Directives and provide comments if any to Joe Zabel by March 25, 2011. |                     | Michael Case |
|              |                          |                 |            | <b>Milestone Description</b>                                                                                                                                                | <b>Original Dat</b>                                                                                 | <b>Revised Date</b> |              |
|              |                          |                 |            | Due to Joe Zabel                                                                                                                                                            | 3/25/2011                                                                                           | 3/28/2011           |              |
| RES #2008053 | <input type="checkbox"/> | WITS #200800100 | DE NONE    | Provide the Commission with an annual summary of progress in the Reg. Guide Update Program [EDATS: SECY-2008-0059/ EDATS: RES-2009-0054] (EDATS:SECY-2010-0180) (Due to FO) |                                                                                                     |                     | M. Case      |
|              |                          |                 |            | <b>Milestone Description</b>                                                                                                                                                | <b>Original Dat</b>                                                                                 | <b>Revised Date</b> |              |
|              |                          |                 |            | Due to FO                                                                                                                                                                   | 3/29/2011                                                                                           |                     |              |
|              |                          |                 |            | Briefing/FO                                                                                                                                                                 | 3/30/2011                                                                                           |                     |              |
|              |                          |                 |            | Due to EDO/SECY                                                                                                                                                             | 4/1/2011                                                                                            |                     |              |
| RES #2010240 | <input type="checkbox"/> | EDO #20100585   | RES NONE   | Groundwater Task Force Report - Dialogue on Groundwater Protection Through CSNI (EDATS:OEDO-2010-0765) (Due to FO)                                                          | Please review the green ticket for more detailed instructions pertaining to the action item.        |                     | Mike Case    |
|              |                          |                 |            | <b>Milestone Description</b>                                                                                                                                                | <b>Original Dat</b>                                                                                 | <b>Revised Date</b> |              |
|              |                          |                 |            | Due to FO                                                                                                                                                                   | 3/29/2011                                                                                           |                     |              |
|              |                          |                 |            | Briefing/FO                                                                                                                                                                 | 3/30/2011                                                                                           |                     |              |
|              |                          |                 |            | Due to EDO                                                                                                                                                                  | 4/1/2011                                                                                            |                     |              |
| RES #2010497 | <input type="checkbox"/> |                 | RES NONE   | OEDO Procedure 510 and OEDO Procedure 520 (Due to Brett Rini)                                                                                                               | Please review and provide comments if any to Brett Rini by March 29, 2011.                          |                     | Michael Case |
|              |                          |                 |            | <b>Milestone Description</b>                                                                                                                                                | <b>Original Dat</b>                                                                                 | <b>Revised Date</b> |              |
|              |                          |                 |            | Due to Brett Rini                                                                                                                                                           | 3/29/2011                                                                                           |                     |              |
| RES #2010470 | <input type="checkbox"/> |                 | RES NONE   | FY 2011 2nd Quarter Performance Report (Op Plan) (EDATS:RES-2011-0018) (Due to K. Lam & S. Goldfeiz)                                                                        | Please review the attached email for detail instructions pertaining to the action item.             |                     | Michael Case |
|              |                          |                 |            | <b>Milestone Description</b>                                                                                                                                                | <b>Original Dat</b>                                                                                 | <b>Revised Date</b> |              |
|              |                          |                 |            | Due to K. Lam & S. Goldfeiz                                                                                                                                                 | 4/4/2011                                                                                            | 3/31/2011           |              |

Action Items for Division DE

| Task Source  | Roadmap                  | Reference     | DIR/Branch | Task Description                                                                                                                       | Special Instructions                                                                                                                                                | Current Status      | Responsible                 |
|--------------|--------------------------|---------------|------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------|
| RES #2010406 | <input type="checkbox"/> |               | RES NONE   | Revising OI-PRM-001: Process for New Work Requests (EDATS:RES-2011-0011) (Division concurrence)                                        | Provide division concurrence on final version of OI-PRM-001                                                                                                         |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                           | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |                             |
|              |                          |               |            | Division concurrence                                                                                                                   | 3/16/2011                                                                                                                                                           | 4/4/2011            |                             |
| RES #2010149 | <input type="checkbox"/> |               | RES NONE   | National Lab Visits (May - August)                                                                                                     | Please identify all lab visits every 4 months and provide an update to Pat Santiago on the following dates: September 3, 2010, December 10, 2010 and April 8, 2011. |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                           | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |                             |
|              |                          |               |            | May - August                                                                                                                           | 4/8/2011                                                                                                                                                            |                     |                             |
| RES #2010489 | <input type="checkbox"/> |               | RES NONE   | User Need Request for Diablo Canyon Power Plant Shoreline Fault Review (NRR-2011-003) (Update the FO)                                  |                                                                                                                                                                     |                     | Michael Case\Annie Kammerer |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                           | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |                             |
|              |                          |               |            | Update the FO                                                                                                                          | 4/8/2011                                                                                                                                                            |                     |                             |
| RES #2010095 | <input type="checkbox"/> |               | RES NONE   | Propose article for Researcher (Due to PMDA/FO)                                                                                        | Please prepare a draft technical article from your division for Amy Bonaccorso and cc RES TA.                                                                       |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                           | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |                             |
|              |                          |               |            | Due to PMDA/FO                                                                                                                         | 4/15/2011                                                                                                                                                           |                     |                             |
| RES #2010211 | <input type="checkbox"/> |               | RES NONE   | Provide input on MIT Summer Safety Course (Due to Brett Rini)                                                                          | See incoming                                                                                                                                                        |                     | Mike Case                   |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                           | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |                             |
|              |                          |               |            | Due to Brett Rini                                                                                                                      | 4/15/2011                                                                                                                                                           |                     |                             |
| RES #2010405 | <input type="checkbox"/> | EDO #20110012 | RES NONE   | IAEA Draft Safety Guide "External Expert Support on Safety Issues" (DS-429) (Due to IAEA: 4/30/11) (EDATS:OEDO-2011-0013) (Due to EDO) | Coordinate with other NRC offices, as appropriate, the review and comments on IAEA Draft Safety Guide (ML110100055).                                                |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                           | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |                             |
|              |                          |               |            | Due to EDO                                                                                                                             | 4/15/2011                                                                                                                                                           |                     |                             |
|              |                          |               |            | Due to IAEA                                                                                                                            | 4/30/2011                                                                                                                                                           |                     |                             |

Action Items for Division DE

| Task Source  | Roadmap                  | Reference     | DIR/Branch | Task Description                                                                                                                                        | Special Instructions                                                                                                         | Current Status      | Responsible                 |
|--------------|--------------------------|---------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------|
| RES #2010524 | <input type="checkbox"/> |               | RES NONE   | Proposed construction of a nuclear plant in Payette County Idaho (Update the RES Mailroom)                                                              |                                                                                                                              |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                            | <b>Original Dat</b>                                                                                                          | <b>Revised Date</b> |                             |
|              |                          |               |            | Update the RES Mailroom                                                                                                                                 | 4/22/2011                                                                                                                    |                     |                             |
| RES #2010537 | <input type="checkbox"/> |               | RES NONE   | Draft User Need Request - Extended Storage and Transportation Regulatory Program Review (NMSS-2011-002) (Update the FO)                                 |                                                                                                                              |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                            | <b>Original Dat</b>                                                                                                          | <b>Revised Date</b> |                             |
|              |                          |               |            | Update the FO                                                                                                                                           | 4/25/2011                                                                                                                    |                     |                             |
| RES #2010447 | <input type="checkbox"/> | EDO #20110094 | RES NONE   | IAEA Draft Safety Guide "Criticality Safety for Facilities and Activities Handling Fissionable Material" (DS407) (EDATS:OEDO-2011-0106) (Update the FO) | Please review the green ticket attachment for more detail instructions pertaining to the action.                             |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                            | <b>Original Dat</b>                                                                                                          | <b>Revised Date</b> |                             |
|              |                          |               |            | Update the FO                                                                                                                                           | 4/27/2011                                                                                                                    |                     |                             |
|              |                          |               |            | Due to EDO                                                                                                                                              | 4/29/2011                                                                                                                    |                     |                             |
| RES #2010515 | <input type="checkbox"/> |               | RES NONE   | Revision of Designation Guide for Safeguards Information (DG-SGI-1) (Due to ISB)                                                                        | Please review and provide comments if any to the ISB no later than April 29, 2011.                                           |                     | Michael Case/Rosemary Hogan |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                            | <b>Original Dat</b>                                                                                                          | <b>Revised Date</b> |                             |
|              |                          |               |            | Due to ISB                                                                                                                                              | 4/29/2011                                                                                                                    |                     |                             |
| RES #2010512 | <input type="checkbox"/> |               | RES NONE   | GG Mid-year Reviews (Due to Debbie Chan)                                                                                                                | Division Directors certify via email that GG mid-year performance reviews, discussions, and ratings are completed by 5/6/11. |                     | Michael Case                |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                            | <b>Original Dat</b>                                                                                                          | <b>Revised Date</b> |                             |
|              |                          |               |            | Due to Debbie Chan                                                                                                                                      | 5/6/2011                                                                                                                     |                     |                             |

Action Items for Division DRA

| Task Source  | Roadmap                  | Reference       | DIR/Branch | Task Description                                                                                     | Special Instructions                                                                                                                                                                                               | Current Status                                                     | Responsible         |
|--------------|--------------------------|-----------------|------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------|
| RES #2010503 | <input type="checkbox"/> |                 | RES NONE   | ACRS Biennial Review and ROMA Update (Task 3)                                                        | T1, Enter the relevant technical area<br>T2, Review the scope, T3, Review the current Need entry, Also, please review the attached email for detail instructions and milestones as it pertains to the action item. |                                                                    | Doug Coe            |
|              |                          |                 |            | <b>Milestone Description</b>                                                                         | <b>Original Dat</b>                                                                                                                                                                                                | <b>Revised Date</b>                                                |                     |
|              |                          |                 |            | Task 3                                                                                               | 3/28/2011                                                                                                                                                                                                          |                                                                    |                     |
|              |                          |                 |            | Task 1                                                                                               | 3/28/2011                                                                                                                                                                                                          |                                                                    |                     |
|              |                          |                 |            | Task 2                                                                                               | 3/28/2011                                                                                                                                                                                                          |                                                                    |                     |
|              |                          |                 |            | Task 4                                                                                               | 3/30/2011                                                                                                                                                                                                          |                                                                    |                     |
|              |                          |                 |            | Task 5                                                                                               | 4/1/2011                                                                                                                                                                                                           |                                                                    |                     |
|              |                          |                 |            | Task 6                                                                                               | 4/15/2011                                                                                                                                                                                                          |                                                                    |                     |
| RES #2010499 | <input type="checkbox"/> |                 | RES NONE   | OEDO Procedure 510 and OEDO Procedure 520 (Due to Brett Rini)                                        | Please review and provide comments if any to Brett Rini by March 29, 2011.                                                                                                                                         |                                                                    | Doug Coe            |
|              |                          |                 |            | <b>Milestone Description</b>                                                                         | <b>Original Dat</b>                                                                                                                                                                                                | <b>Revised Date</b>                                                |                     |
|              |                          |                 |            | Due to Brett Rini                                                                                    | 3/29/2011                                                                                                                                                                                                          |                                                                    |                     |
| RES #2010471 | <input type="checkbox"/> |                 | RES NONE   | FY 2011 2nd Quarter Performance Report (Op Plan) (EDATS:RES-2011-0018) (Due to K. Lam & S. Goldfeiz) | Please review the attached email for detail instructions pertaining to the action item.                                                                                                                            |                                                                    | Doug Coe            |
|              |                          |                 |            | <b>Milestone Description</b>                                                                         | <b>Original Dat</b>                                                                                                                                                                                                | <b>Revised Date</b>                                                |                     |
|              |                          |                 |            | Due to K. Lam & S. Goldfeiz                                                                          | 4/4/2011                                                                                                                                                                                                           | 3/31/2011                                                          |                     |
| RES #2003097 | <input type="checkbox"/> | WITS #200300066 | NONE OEGIB | Semiannual Report to Congress (EDATS:2010-0324) (Update the FO/Brett Rini)                           |                                                                                                                                                                                                                    | Waiting for DRA to send EDO closeout info. before clsoing in ATMIS | Doug Coe/B. Beasley |
|              |                          |                 |            | <b>Milestone Description</b>                                                                         | <b>Original Dat</b>                                                                                                                                                                                                | <b>Revised Date</b>                                                |                     |
|              |                          |                 |            | Update the FO/Brett Rini                                                                             | 4/4/2011                                                                                                                                                                                                           |                                                                    |                     |
|              |                          |                 |            | Due to OEDO/Roger Rihm                                                                               | 4/6/2011                                                                                                                                                                                                           |                                                                    |                     |

**Action Items for Division DRA**

| Task Source  | Roadmap Reference        | DIR/Branch | Task Description                                                                                | Special Instructions                                                                                                                                                | Current Status      | Responsible |
|--------------|--------------------------|------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|
| RES #2010408 | <input type="checkbox"/> | RES NONE   | Revising OI-PRM-001: Process for New Work Requests (EDATS:RES-2011-0011) (Division concurrence) | Provide division concurrence on final version of OI-PRM-001                                                                                                         |                     | Doug Coe    |
|              |                          |            | <b>Milestone Description</b>                                                                    | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |             |
|              |                          |            | Division concurrence                                                                            | 3/16/2011                                                                                                                                                           | 4/4/2011            |             |
| RES #2010151 | <input type="checkbox"/> | RES NONE   | National Lab Visits (May - August)                                                              | Please identify all lab visits every 4 months and provide an update to Pat Santiago on the following dates: September 3, 2010, December 10, 2010 and April 8, 2011. |                     | Doug Coe    |
|              |                          |            | <b>Milestone Description</b>                                                                    | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |             |
|              |                          |            | May - August                                                                                    | 4/8/2011                                                                                                                                                            |                     |             |
| RES #2010212 | <input type="checkbox"/> | RES NONE   | Provide input on MIT Summer Safety Course (Due to Brett Rini)                                   | See incoming                                                                                                                                                        |                     | Doug Coe    |
|              |                          |            | <b>Milestone Description</b>                                                                    | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |             |
|              |                          |            | Due to Brett Rini                                                                               | 4/15/2011                                                                                                                                                           |                     |             |
| RES #2010514 | <input type="checkbox"/> | RES NONE   | GG Mid-year Reviews (Due to Debbie Chan)                                                        | Division Directors certify via email that GG mid-year performance reviews, discussions, and ratings are completed by 5/6/11.                                        |                     | Doug Coe    |
|              |                          |            | <b>Milestone Description</b>                                                                    | <b>Original Dat</b>                                                                                                                                                 | <b>Revised Date</b> |             |
|              |                          |            | Due to Debbie Chan                                                                              | 5/6/2011                                                                                                                                                            |                     |             |

**Action Items for Division DSA**

| Task Source  | Roadmap Reference        | DIR/Branch | Task Description                                                                        | Special Instructions                                                                                                                                                                                            | Current Status      | Responsible                    |
|--------------|--------------------------|------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| RES #2010366 | <input type="checkbox"/> | RES NONE   | Office Instruction Bi-Annual Update (PRM-010), (TEC-003) (Due to Jazel Parks)           | Please confirm if the OI is current, if it is not please confirm a date when the OI draft will be sent to Jazel Parks for review.                                                                               |                     | Kathy Gibson/Kenneth Armstrong |
|              |                          |            | <b>Milestone Description</b>                                                            | <b>Original Dat</b>                                                                                                                                                                                             | <b>Revised Date</b> |                                |
|              |                          |            | Due to Jazel Parks                                                                      | 3/28/2011                                                                                                                                                                                                       |                     |                                |
| RES #2010369 | <input type="checkbox"/> | RES NONE   | Office Instruction Bi-Annual Update (COM-010), (ADM-007) (Due to Jazel Parks)           | Please confirm if the OI is current, if it is not please confirm a date when the OI draft will be sent to Jazel Parks for review.                                                                               |                     | Pat Santiago                   |
|              |                          |            | <b>Milestone Description</b>                                                            | <b>Original Dat</b>                                                                                                                                                                                             | <b>Revised Date</b> |                                |
|              |                          |            | Due to Jazel Parks                                                                      | 3/28/2011                                                                                                                                                                                                       |                     |                                |
| RES #2010466 | <input type="checkbox"/> | RES NONE   | Long-Term Research Program - LTRP Budget (EDATS:RES-2011-0016) (Update Sergio Gonzalez) | Please edit the attached spreadsheet on the G/DIROFF/Technical Assistant/LTRP Budget by March 18 and notify Sergio Gonzalez, RidsResPmdaMailResource and cc Ruth Spencer and Kathleen Stout in PMDA.            |                     | Kathy Gibson                   |
|              |                          |            | <b>Milestone Description</b>                                                            | <b>Original Dat</b>                                                                                                                                                                                             | <b>Revised Date</b> |                                |
|              |                          |            | Update Sergio Gonzalez                                                                  | 3/18/2011                                                                                                                                                                                                       | 3/28/2011           |                                |
| RES #2010502 | <input type="checkbox"/> | RES NONE   | ACRS Biennial Review and ROMA Update (Task 1)                                           | T1, Enter the relevant technical area T2, Review the scope, T3, Review the current Need entry, Also, please review the attached email for detail instructions and milestones as it pertains to the action item. |                     | Kathy Gibson                   |
|              |                          |            | <b>Milestone Description</b>                                                            | <b>Original Dat</b>                                                                                                                                                                                             | <b>Revised Date</b> |                                |
|              |                          |            | Task 1                                                                                  | 3/28/2011                                                                                                                                                                                                       |                     |                                |
|              |                          |            | Task 3                                                                                  | 3/28/2011                                                                                                                                                                                                       |                     |                                |
|              |                          |            | Task 2                                                                                  | 3/28/2011                                                                                                                                                                                                       |                     |                                |

Action Items for Division DSA

| Task Source  | Roadmap                  | Reference | DIR/Branch | Task Description                                                                                                                                                     | Special Instructions                                                                    | Current Status      | Responsible  |
|--------------|--------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------|--------------|
| RES #2010498 | <input type="checkbox"/> |           | RES NONE   | OEDO Procedure 510 and OEDO Procedure 520 (Due to Brett Rini)                                                                                                        | Please review and provide comments if any to Brett Rini by March 29, 2011.              |                     | Kathy Gibson |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                                         | <b>Original Dat</b>                                                                     | <b>Revised Date</b> |              |
|              |                          |           |            | Due to Brett Rini                                                                                                                                                    | 3/29/2011                                                                               |                     |              |
| RES #2010472 | <input type="checkbox"/> |           | RES NONE   | FY 2011 2nd Quarter Performance Report (Op Plan) (EDATS:RES-2011-0018) (Due to K. Lam & S. Goldfeiz)                                                                 | Please review the attached email for detail instructions pertaining to the action item. |                     | Kathy Gibson |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                                         | <b>Original Dat</b>                                                                     | <b>Revised Date</b> |              |
|              |                          |           |            | Due to K. Lam & S. Goldfeiz                                                                                                                                          | 4/4/2011                                                                                | 3/31/2011           |              |
| RES #2010407 | <input type="checkbox"/> |           | RES NONE   | Revising OI-PRM-001: Process for New Work Requests (EDATS:RES-2011-0011) (Division concurrence)                                                                      | Provide division concurrence on final version of OI-PRM-001                             |                     | Kathy Gibson |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                                         | <b>Original Dat</b>                                                                     | <b>Revised Date</b> |              |
|              |                          |           |            | Division concurrence                                                                                                                                                 | 3/16/2011                                                                               | 4/4/2011            |              |
| RES #2010525 | <input type="checkbox"/> |           | RES NONE   | Prepare response to (User Need : NMSS-2011-001): "Request for Research to Continue Assisting NMSS to Review CFD Methods Applied to Storage Casks Design" (Due to FO) |                                                                                         |                     | Kathy Gibson |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                                         | <b>Original Dat</b>                                                                     | <b>Revised Date</b> |              |
|              |                          |           |            | Due to FO                                                                                                                                                            | 4/13/2011                                                                               |                     |              |
|              |                          |           |            | Due to NMSS                                                                                                                                                          | 4/15/2011                                                                               |                     |              |
| RES #2010213 | <input type="checkbox"/> |           | RES NONE   | Provide input on MIT Summer Safety Course (Due to Brett Rini)                                                                                                        | See incoming                                                                            |                     | Kathy Gibson |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                                         | <b>Original Dat</b>                                                                     | <b>Revised Date</b> |              |
|              |                          |           |            | Due to Brett Rini                                                                                                                                                    | 4/15/2011                                                                               |                     |              |
| RES #2010485 | <input type="checkbox"/> |           | RES NONE   | OECD/NEA - STEM Project for Statement of Interest by Countries (Due to Jean Gauvain)                                                                                 | Please review and provide comments to Jean Gauvain by May 5, 2011.                      |                     | Kathy Gibson |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                                         | <b>Original Dat</b>                                                                     | <b>Revised Date</b> |              |
|              |                          |           |            | Due to Jean Gauvain                                                                                                                                                  | 5/5/2011                                                                                |                     |              |



**Action Items for Division DSA**

| Task Source  | Roadmap                  | Reference       | DIR/Branch | Task Description    | Special Instructions                                                                  | Current Status | Responsible                    |
|--------------|--------------------------|-----------------|------------|---------------------|---------------------------------------------------------------------------------------|----------------|--------------------------------|
| RES #2010455 | <input type="checkbox"/> | FOIA #2011-0083 | RES SPB    | SOARCA (Due to OIS) | Please provide all information requested within this FOIA to Jazel Parks by 2/21/2011 |                | Kathy Gibson/Kenneth Armstrong |

**Milestone Description**

**Original Dat Revised Date**

|                 |           |          |
|-----------------|-----------|----------|
| Due to OIS      | 2/22/2011 | 5/6/2011 |
| Due to J. Parks | 2/21/2011 | 5/6/2011 |

|              |                          |  |          |                                          |                                                                                                                              |  |              |
|--------------|--------------------------|--|----------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--|--------------|
| RES #2010513 | <input type="checkbox"/> |  | RES NONE | GG Mid-year Reviews (Due to Debbie Chan) | Division Directors certify via email that GG mid-year performance reviews, discussions, and ratings are completed by 5/6/11. |  | Kathy Gibson |
|--------------|--------------------------|--|----------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--|--------------|

**Milestone Description**

**Original Dat Revised Date**

|                    |          |  |
|--------------------|----------|--|
| Due to Debbie Chan | 5/6/2011 |  |
|--------------------|----------|--|

**Action Items for Division PMDA**

| Task Source  | Roadmap                  | Reference     | DIR/Branch | Task Description                                                                                                                                                        | Special Instructions                                                                                                                                 | Current Status      | Responsible                |
|--------------|--------------------------|---------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| RES #2010479 | <input type="checkbox"/> | EDO #20110151 | RES NONE   | Update to the Enclosure of the 2010 Annual Report on IAEA/NEA Activity Descriptions and Associated Draft Communication Paper (EDATS:OEDO-2011-0175) (Due to OIP & OEDO) | Please provide input to Jennifer Schwartzman, OIP with cc: to Shawn Williams, OEDO and RidsEdoMailCenter, RidsResPmdaMailResource by March 28, 2011. |                     | Antony Calvo/Jeff Dehn     |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                                            | <b>Original Dat</b>                                                                                                                                  | <b>Revised Date</b> |                            |
|              |                          |               |            | Due to OIP & OEDO                                                                                                                                                       | 3/28/2011                                                                                                                                            |                     |                            |
| RES #2010486 | <input type="checkbox"/> |               | RES NONE   | MD and Handbook 3.7, "NUREG-SERIES PUBLICATIONS" AND MD and Handbook 3.11, "CONFERENCES AND CONFERENCE PROCEEDINGS" (Input from Divisions)                              |                                                                                                                                                      |                     | Leslie Donaldson/Joe Zabel |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                                            | <b>Original Dat</b>                                                                                                                                  | <b>Revised Date</b> |                            |
|              |                          |               |            | Input from Divisions                                                                                                                                                    | 3/25/2011                                                                                                                                            | 3/28/2011           |                            |
|              |                          |               |            | Due to B. Martin & K.A. Kribs                                                                                                                                           | 3/30/2011                                                                                                                                            |                     |                            |
| RES #2010505 | <input type="checkbox"/> |               | RES NONE   | ACRS Biennial Review and ROMA Update (Task 1)                                                                                                                           | Please review the attached email for detail instructions and milestones as it pertains to the action item.                                           |                     | Teresa Grancorvitz         |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                                            | <b>Original Dat</b>                                                                                                                                  | <b>Revised Date</b> |                            |
|              |                          |               |            | Task 1                                                                                                                                                                  | 3/28/2011                                                                                                                                            |                     |                            |
|              |                          |               |            | Task 2                                                                                                                                                                  | 3/28/2011                                                                                                                                            |                     |                            |
|              |                          |               |            | Task 3                                                                                                                                                                  | 3/28/2011                                                                                                                                            |                     |                            |
|              |                          |               |            | Task 4                                                                                                                                                                  | 3/30/2011                                                                                                                                            |                     |                            |
|              |                          |               |            | Task 5                                                                                                                                                                  | 4/1/2011                                                                                                                                             |                     |                            |
|              |                          |               |            | Task 6                                                                                                                                                                  | 4/15/2011                                                                                                                                            |                     |                            |
| RES #2010473 | <input type="checkbox"/> |               | RES NONE   | FY 2011 2nd Quarter Performance Report (Op Plan) (EDATS:RES-2011-0018) (Due to K. Lam & S. Goldfeiz)                                                                    | Please review the attached email for detail instructions pertaining to the action item.                                                              |                     | PMDA BCs and TLs           |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                                            | <b>Original Dat</b>                                                                                                                                  | <b>Revised Date</b> |                            |
|              |                          |               |            | Due to K. Lam & S. Goldfeiz                                                                                                                                             | 4/4/2011                                                                                                                                             | 3/31/2011           |                            |

Action Items for Division PMDA

| Task Source  | Roadmap                  | Reference | DIR/Branch | Task Description                                                                                         | Special Instructions                                                                                                                                    | Current Status      | Responsible                  |
|--------------|--------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|
| RES #2010474 | <input type="checkbox"/> |           | RES NONE   | FY 2011 2nd Quarter Performance Report (Op Plan) (EDATS:RES-2011-0018) (Due to Kim Lam & S. Goldfeiz)    | Please review the attached email for detail instructions pertaining to the action item.                                                                 |                     | Antony Calvo/Wendy Eisenberg |
|              |                          |           |            | <b>Milestone Description</b>                                                                             | <b>Original Dat</b>                                                                                                                                     | <b>Revised Date</b> |                              |
|              |                          |           |            | Due to Kim Lam & S. Goldfeiz                                                                             | 4/4/2011                                                                                                                                                | 3/31/2011           |                              |
| RES #2010493 | <input type="checkbox"/> |           | RES NONE   | Continuation of Agency Virtual Meeting Services (Due to Tammy Trocki, OIS)                               | Please return the enclosed Memorandum of Understanding (MOU) and a completed Request for Procurement Action by April 1, 2011.                           |                     | Leslie Donaldson             |
|              |                          |           |            | <b>Milestone Description</b>                                                                             | <b>Original Dat</b>                                                                                                                                     | <b>Revised Date</b> |                              |
|              |                          |           |            | Due to Tammy Trocki, OIS                                                                                 | 4/1/2011                                                                                                                                                |                     |                              |
| RES #2010520 | <input type="checkbox"/> |           | RES NONE   | Fiscal Year 2011 Funds Utilization Plan and Third Quarter Advance Procurement Plan (Due to OCFO/DPB/ADM) | Third Quarter FUP submission due to OCFO/DPB on 4/5/11. Update - The APP date is extended to April 1st and the FUP date has been extended to April 8th. |                     | Teresa Grancorvitz           |
|              |                          |           |            | <b>Milestone Description</b>                                                                             | <b>Original Dat</b>                                                                                                                                     | <b>Revised Date</b> |                              |
|              |                          |           |            | Due to OCFO/DPB/ADM                                                                                      | 4/1/2011                                                                                                                                                |                     |                              |
|              |                          |           |            | Due to OCFO/DPB/ADM                                                                                      | 4/8/2011                                                                                                                                                |                     |                              |
| RES #2010410 | <input type="checkbox"/> |           | RES NONE   | Revising OI-PRM-001: Process for New Work Requests (EDATS:RES-2011-0011) (Task 2)                        | Task 1: Obtain division comments on OI-PRM-001 from J. Dion<br>Task 2: Prepare final OI for FO review, Task 3: Process approved OI                      |                     | Tom Kardaras/Jazel Parks     |
|              |                          |           |            | <b>Milestone Description</b>                                                                             | <b>Original Dat</b>                                                                                                                                     | <b>Revised Date</b> |                              |
|              |                          |           |            | Task 2                                                                                                   | 2/11/2011                                                                                                                                               | 4/4/2011            |                              |
|              |                          |           |            | Task 3                                                                                                   | 4/14/2011                                                                                                                                               |                     |                              |

**Action Items for Division PMDA**

| Task Source  | Roadmap                  | Reference | DIR/Branch | Task Description                                                                                                                                  | Special Instructions                                                                                                                                                                                                         | Current Status      | Responsible                  |
|--------------|--------------------------|-----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|
| RES #2010494 | <input type="checkbox"/> |           | RES NONE   | SES Mid-year Appraisals (Task 1)                                                                                                                  | T1, Wording for D/DD, T2, B. Rini completes draft wording, T3, Input to support mid-year review, T4, Mid-year discussions completed, T5, Completed SES Performance Plans, T6, copy of each SES Performance Plan/J. Gallagher |                     | Leslie Donaldson/Debbie Chan |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                      | <b>Original Dat</b>                                                                                                                                                                                                          | <b>Revised Date</b> |                              |
|              |                          |           |            | Task 1                                                                                                                                            | 4/4/2011                                                                                                                                                                                                                     |                     |                              |
|              |                          |           |            | Task 2                                                                                                                                            | 4/11/2011                                                                                                                                                                                                                    |                     |                              |
|              |                          |           |            | Task 3                                                                                                                                            | 4/15/2011                                                                                                                                                                                                                    |                     |                              |
| RES #2010507 | <input type="checkbox"/> |           | RES NONE   | Nuclear Energy Agency Steering Committee for Nuclear Energy Meeting 28th - 29th of April 2011 (Background Information Requested) (Input from DSA) | Please review and provide your input to Charles Miller with a copy to Dr. Donald A. Cool by April 7, 2011.                                                                                                                   |                     | Donna-Marie-Sangimino        |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                      | <b>Original Dat</b>                                                                                                                                                                                                          | <b>Revised Date</b> |                              |
|              |                          |           |            | Input from DSA                                                                                                                                    | 4/5/2011                                                                                                                                                                                                                     |                     |                              |
|              |                          |           |            | Due to FSME                                                                                                                                       | 4/7/2011                                                                                                                                                                                                                     |                     |                              |
| RES #2010521 | <input type="checkbox"/> |           | RES NONE   | Computer Matching Programs (Due to Sandra Northern, OIS)                                                                                          | Send your response by e-mail to Sandra Northern, no later than April 8, 2011.                                                                                                                                                |                     | Tom Kardaras                 |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                      | <b>Original Dat</b>                                                                                                                                                                                                          | <b>Revised Date</b> |                              |
|              |                          |           |            | Due to Sandra Northern, OIS                                                                                                                       | 4/8/2011                                                                                                                                                                                                                     |                     |                              |
| RES #2010536 | <input type="checkbox"/> |           | RES NONE   | External Awards\Recognition (Due to Anthony Barnes/SBCR)                                                                                          | Please provide a list of those employees from your office that have received external awards/recognition during FY 2010-2011 for NRC mission related professional achievements.                                              |                     | Leslie Donaldson\Ed Oklesson |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                      | <b>Original Dat</b>                                                                                                                                                                                                          | <b>Revised Date</b> |                              |
|              |                          |           |            | Due to Anthony Barnes/SBCR                                                                                                                        | 4/13/2011                                                                                                                                                                                                                    |                     |                              |
| RES #2010425 | <input type="checkbox"/> |           | RES NONE   | Second Quarter Performance Report (Due to Mike Weber, OEDO)                                                                                       |                                                                                                                                                                                                                              |                     | Teresa Grancorvitz           |
|              |                          |           |            | <b>Milestone Description</b>                                                                                                                      | <b>Original Dat</b>                                                                                                                                                                                                          | <b>Revised Date</b> |                              |

Action Items for Division PMDA

| Task Source  | Roadmap                  | Reference     | DIR/Branch | Task Description                                                                                                                                                                                      | Special Instructions                                                                                                                                                                            | Current Status      | Responsible                  |
|--------------|--------------------------|---------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|
| RES #2010492 | <input type="checkbox"/> |               | RES NONE   | Due to Mike Weber, OEDO<br>SORRTG Questionnaire and CSNI Position Paper (Due to Greg Lamarre)                                                                                                         | 4/15/2011<br><br>Please review and provide comments if any to Greg Lamarre by April 15, 2011.                                                                                                   |                     | Antony Calvo                 |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                                                                          | <b>Original Dat</b>                                                                                                                                                                             | <b>Revised Date</b> |                              |
|              |                          |               |            | Due to Greg Lamarre                                                                                                                                                                                   | 4/15/2011                                                                                                                                                                                       |                     |                              |
| RES #2010539 | <input type="checkbox"/> | EDO #20110206 | RES NONE   | Solicitation of Information for DEDR Topics of Discussion for the 29th Meeting of the Commission on Safety Standards (CSS) in Vienna, Austria, May 25-27, 2011 (EDATS:OEDO-2011-0217) (Update the FO) | Please review the green ticket for detail instructions as it pertains to the action item.                                                                                                       |                     | Donna Marie-Sangimino        |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                                                                          | <b>Original Dat</b>                                                                                                                                                                             | <b>Revised Date</b> |                              |
|              |                          |               |            | Update the FO                                                                                                                                                                                         | 5/2/2011                                                                                                                                                                                        |                     |                              |
|              |                          |               |            | Due to EDO                                                                                                                                                                                            | 5/4/2011                                                                                                                                                                                        |                     |                              |
| RES #2010496 | <input type="checkbox"/> |               | RES NONE   | GG Mid-year Reviews (Task 1)                                                                                                                                                                          | T1, Division Directors certify via email that mid-year performance reviews, discussions, and ratings are completed. T2, Certification of completion of mid-year review is sent to HR via email. |                     | Leslie Donaldson\Debbie Chan |
|              |                          |               |            | <b>Milestone Description</b>                                                                                                                                                                          | <b>Original Dat</b>                                                                                                                                                                             | <b>Revised Date</b> |                              |
|              |                          |               |            | Task 1                                                                                                                                                                                                | 5/6/2011                                                                                                                                                                                        |                     |                              |

Action Items for Division RES

| Task Source  | Roadmap                  | Reference | DIR/Branch | Task Description                                              | Special Instructions                                                                                                                                                                                                                       | Current Status      | Responsible |
|--------------|--------------------------|-----------|------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|
| RES #2010482 | <input type="checkbox"/> |           | RES NONE   | Senior Performance Official (SPO) Reports (Ticket 1) (Task 2) | T2, Mtg to discuss draft Mid-Year's SPOs, T3, RES assessment offices/regions, T4, Discussions btw offices, as needed, T5, RES self-assessment, T6, self-assessment/all office assessments, T7, OEDO/DEDOs/discussions, Op Plan w/OD's/RA's |                     | Brett Rini  |
|              |                          |           |            | <b>Milestone Description</b>                                  | <b>Original Dat</b>                                                                                                                                                                                                                        | <b>Revised Date</b> |             |
|              |                          |           |            | Task 2                                                        | 3/28/2011                                                                                                                                                                                                                                  |                     |             |
|              |                          |           |            | Task 3                                                        | 4/1/2011                                                                                                                                                                                                                                   |                     |             |
|              |                          |           |            | Task 5                                                        | 4/11/2011                                                                                                                                                                                                                                  |                     |             |
|              |                          |           |            | Task 4 - (04/04-04/14/11)                                     | 4/4/2011                                                                                                                                                                                                                                   | 4/11/2011           |             |
|              |                          |           |            | Task 6                                                        | 4/15/2011                                                                                                                                                                                                                                  |                     |             |
|              |                          |           |            | Task 7                                                        | 4/22/2011                                                                                                                                                                                                                                  |                     |             |
|              |                          |           |            | Op Plan with OD's/RA's                                        | 4/29/2011                                                                                                                                                                                                                                  |                     |             |

|              |                          |               |          |                                                                                      |                                                                                                                                                           |                     |            |
|--------------|--------------------------|---------------|----------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------|
| RES #2010487 | <input type="checkbox"/> | EDO #20110156 | RES NONE | Update of the Information Digest (EDATS:OEDO-2011-0181) (Due to Glenn Ellmers, OEDO) | See guidance attached. Please provide all material via email to Glenn Ellmers, OEDO and the RidsEdoMailCenter, RidsResPmdaMailResource by March 28, 2011. |                     | Brett Rini |
|              |                          |               |          | <b>Milestone Description</b>                                                         | <b>Original Dat</b>                                                                                                                                       | <b>Revised Date</b> |            |
|              |                          |               |          | Due to Glenn Ellmers, OEDO                                                           | 3/28/2011                                                                                                                                                 |                     |            |

|              |                          |  |          |                                                                  |                     |                     |            |
|--------------|--------------------------|--|----------|------------------------------------------------------------------|---------------------|---------------------|------------|
| RES #2010500 | <input type="checkbox"/> |  | RES NONE | OEDO Procedure 510 and OEDO Procedure 520 (Input from Divisions) |                     |                     | Brett Rini |
|              |                          |  |          | <b>Milestone Description</b>                                     | <b>Original Dat</b> | <b>Revised Date</b> |            |
|              |                          |  |          | Input from Divisions                                             | 3/29/2011           |                     |            |
|              |                          |  |          | Due to Kathy Clayton, OEDO                                       | 3/31/2011           |                     |            |

**Action Items for Division RES**

| Task Source  | Roadmap                  | Reference       | DIR/Branch | Task Description                              | Special Instructions                                                                                                                                                                                                  | Current Status      | Responsible         |
|--------------|--------------------------|-----------------|------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| RES #2010504 | <input type="checkbox"/> |                 | RES NONE   | ACRS Biennial Review and ROMA Update (Task 4) | T4, Sort the final inputs T5, Send data on which projects/tech review, T6, Work with PMDA/User Need, Also, please review the attached email for detail instructions and milestones as it pertains to the action item. |                     | Brett Rini          |
|              |                          |                 |            |                                               | <b>Milestone Description</b>                                                                                                                                                                                          | <b>Original Dat</b> | <b>Revised Date</b> |
|              |                          |                 |            |                                               | Task 4                                                                                                                                                                                                                | 3/30/2011           |                     |
|              |                          |                 |            |                                               | Task 5                                                                                                                                                                                                                | 4/1/2011            |                     |
|              |                          |                 |            |                                               | Task 6                                                                                                                                                                                                                | 4/15/2011           |                     |
| RES #2010516 | <input type="checkbox"/> | FOIA #2010-0119 | RES NONE   | March 11 Earthquake (J. Parks)                | Please provide all information as stated in the request to J. Parks COB March 30, 2011                                                                                                                                |                     | Kenneth Armstrong   |
|              |                          |                 |            |                                               | <b>Milestone Description</b>                                                                                                                                                                                          | <b>Original Dat</b> | <b>Revised Date</b> |
|              |                          |                 |            |                                               | J. Parks                                                                                                                                                                                                              | 3/30/2011           |                     |
|              |                          |                 |            |                                               | OIS                                                                                                                                                                                                                   | 3/31/2011           |                     |
| RES #2010517 | <input type="checkbox"/> | FOIA #2011-0119 | DRA NONE   | March 11th Earthquake (J. Parks)              | Please provide all information as stated in the request to J. Parks COB March 30, 2011                                                                                                                                |                     | Jose Ibarra         |
|              |                          |                 |            |                                               | <b>Milestone Description</b>                                                                                                                                                                                          | <b>Original Dat</b> | <b>Revised Date</b> |
|              |                          |                 |            |                                               | J. Parks                                                                                                                                                                                                              | 3/30/2011           |                     |
|              |                          |                 |            |                                               | OIS                                                                                                                                                                                                                   | 3/31/2011           |                     |
| RES #2010518 | <input type="checkbox"/> | FOIA #2011-0119 | DE SGSEB   | March 11th Earthquake (Due to J. Parks)       | Please provide all information as stated in the request to J. Parks by COB March 30, 2011                                                                                                                             |                     | Richard Rivera-Lugo |
|              |                          |                 |            |                                               | <b>Milestone Description</b>                                                                                                                                                                                          | <b>Original Dat</b> | <b>Revised Date</b> |
|              |                          |                 |            |                                               | Due to J. Parks                                                                                                                                                                                                       | 3/30/2011           |                     |
|              |                          |                 |            |                                               | Due to OIS                                                                                                                                                                                                            | 3/31/2011           |                     |

**Action Items for Division RES**

| Task Source  | Roadmap                  | Reference       | DIR/Branch | Task Description                                                                  | Special Instructions                                                                                                                                                                                                                                           | Current Status      | Responsible |
|--------------|--------------------------|-----------------|------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|
| RES #2010519 | <input type="checkbox"/> | FOIA #2011-0119 | RES NONE   | March 11th Earthquake (Due to J. Parks)                                           | Please provide all information as stated in the request to J. Parks by COB March 30, 2011                                                                                                                                                                      |                     | Brett Rini  |
|              |                          |                 |            | <b>Milestone Description</b>                                                      | <b>Original Dat</b>                                                                                                                                                                                                                                            | <b>Revised Date</b> |             |
|              |                          |                 |            | Due to J. Parks                                                                   | 3/30/2011                                                                                                                                                                                                                                                      |                     |             |
|              |                          |                 |            | Due to OIS                                                                        | 3/30/2011                                                                                                                                                                                                                                                      |                     |             |
| RES #2010305 | <input type="checkbox"/> |                 | RES NONE   | ROMA Query Report (Review ROMA Report)                                            |                                                                                                                                                                                                                                                                |                     | Brett Rini  |
|              |                          |                 |            | <b>Milestone Description</b>                                                      | <b>Original Dat</b>                                                                                                                                                                                                                                            | <b>Revised Date</b> |             |
|              |                          |                 |            | Review ROMA Report                                                                | 11/23/2010                                                                                                                                                                                                                                                     | 4/1/2011            |             |
| RES #2010409 | <input type="checkbox"/> |                 | RES NONE   | Revising OI-PRM-001: Process for New Work Requests (EDATS:RES-2011-0011) (Task 3) | Task 1: Incorporate comments and provide TAs<br>Task 2: Send revised OI to Jazel,<br>Task 3: Send Jazel announcement of OI publication                                                                                                                         |                     | Brett Rini  |
|              |                          |                 |            | <b>Milestone Description</b>                                                      | <b>Original Dat</b>                                                                                                                                                                                                                                            | <b>Revised Date</b> |             |
|              |                          |                 |            | Task 3                                                                            | 3/24/2011                                                                                                                                                                                                                                                      | 4/4/2011            |             |
| RES #2010530 | <input type="checkbox"/> | FOIA #2011-0140 | RES NONE   | MSNBC FOIA REGARDING MARCH 11th EARTHQUAKE (Due to H. Dempsey)                    | Please provide all email or electronic messages sent or reviewed including any attachments whether sent internally or externally from 12:00 am. ET on 3/11 through 11:59 ET on Friday 3/18 on Jennifer Uhle. Please provide all records to H.Dempsey on 4/6/11 |                     | Brett Rini  |
|              |                          |                 |            | <b>Milestone Description</b>                                                      | <b>Original Dat</b>                                                                                                                                                                                                                                            | <b>Revised Date</b> |             |
|              |                          |                 |            | Due to H. Dempsey                                                                 | 4/6/2011                                                                                                                                                                                                                                                       |                     |             |
|              |                          |                 |            | Due to OIS                                                                        | 4/8/2011                                                                                                                                                                                                                                                       |                     |             |



**Action Items for Division RES**

| Task Source  | Roadmap                  | Reference       | DIR/Branch | Task Description                                               | Special Instructions                                                                                                                                                                                                                                           | Current Status      | Responsible         |
|--------------|--------------------------|-----------------|------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| RES #2010531 | <input type="checkbox"/> | FOIA #2011-0140 | DRA PRAB   | MSNBC FOIA REGARDING MARCH 11TH EARTHQUAKE (Due to H. Dempsey) | Please provide all email or electronic messages sent or reviewed including any attachments whether sent internally or externally from 12:00 am. ET on 3/11 through 11:59 ET on Friday 3/18 on Jennifer Uhle. Please provide all records to H.Dempsey on 4/6/11 |                     | Jose Ibarra         |
|              |                          |                 |            | <b>Milestone Description</b>                                   | <b>Original Dat</b>                                                                                                                                                                                                                                            | <b>Revised Date</b> |                     |
|              |                          |                 |            | Due to H. Dempsey                                              | 4/6/2011                                                                                                                                                                                                                                                       |                     |                     |
|              |                          |                 |            | Due to OIS                                                     | 4/8/2011                                                                                                                                                                                                                                                       |                     |                     |
| RES #2010532 | <input type="checkbox"/> | FOIA #2011-0141 | DE NONE    | MSNBC FOIA REGARDING MARCH 11TH EARTHQUAKE (Due to H. Dempsey) | Please provide all electronic communication received including attachments sent internally or externally from 12:00 am ET on 3/11 to 11:59 ET on 3/25 from the people highlighted on the request to H. Dempsey by 04/06/2011                                   |                     | Richard Rivera-Lugo |
|              |                          |                 |            | <b>Milestone Description</b>                                   | <b>Original Dat</b>                                                                                                                                                                                                                                            | <b>Revised Date</b> |                     |
|              |                          |                 |            | Due to H. Dempsey                                              | 4/6/2011                                                                                                                                                                                                                                                       |                     |                     |
|              |                          |                 |            | Due to OIS                                                     | 4/8/2011                                                                                                                                                                                                                                                       |                     |                     |
| RES #2010533 | <input type="checkbox"/> | FOIA #2011-0141 | DRA NONE   | (Due to H. Dempsey)                                            | Please provide all electronic communication sent or reviewed including any attachments whether sent internally or externally from 12:00 am. ET on 3/11 through 11:59 ET on 3/25 on the highlighted people. Please provide all records to H.Dempsey on 4/6/11   |                     | Jose Ibarra         |
|              |                          |                 |            | <b>Milestone Description</b>                                   | <b>Original Dat</b>                                                                                                                                                                                                                                            | <b>Revised Date</b> |                     |
|              |                          |                 |            | Due to H. Dempsey                                              | 4/6/2011                                                                                                                                                                                                                                                       |                     |                     |
|              |                          |                 |            | Due to OIS                                                     | 4/8/2011                                                                                                                                                                                                                                                       |                     |                     |

Action Items for Division RES

| Task Source  | Roadmap                  | Reference       | DIR/Branch | Task Description                                                              | Special Instructions                                                                                                                                                                                                                                   | Current Status      | Responsible  |
|--------------|--------------------------|-----------------|------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| RES #2010534 | <input type="checkbox"/> | FOIA #2011-0141 | RES NONE   | MSNBC FOIA Regarding March 11th EARTHQUAKE<br>(Due to H. Dempsey)             | Please provide all email or electronic messages sent or reviewed including any attachments whether sent internally or externally from 12:00 am. ET on 3/11 through 11:59 ET on 3/25 on Brian Sheron. Please provide all records to H.Dempsey on 4/6/11 |                     | Brett Rini   |
|              |                          |                 |            | <b>Milestone Description</b>                                                  | <b>Original Dat</b>                                                                                                                                                                                                                                    | <b>Revised Date</b> |              |
|              |                          |                 |            | Due to H. Dempsey                                                             | 4/6/2011                                                                                                                                                                                                                                               |                     |              |
|              |                          |                 |            | Due to OIS                                                                    | 4/8/2011                                                                                                                                                                                                                                               |                     |              |
| RES #2010535 | <input type="checkbox"/> | FOIA #2011-0141 | RES NONE   | MSNBC FOIA REGARDING MARCH 11TH EARTHQUAKE (Due to H. Dempsey)                | Please provide all email or electronic messages sent or reviewed including any attachments whether sent internally or externally from 12:00 am. ET on 3/11 through 11:59 ET on 3/25 on Joseph Zabel. Please provide all records to H.Dempsey on 4/6/11 |                     | Joseph Zabel |
|              |                          |                 |            | <b>Milestone Description</b>                                                  | <b>Original Dat</b>                                                                                                                                                                                                                                    | <b>Revised Date</b> |              |
|              |                          |                 |            | Due to H. Dempsey                                                             | 4/6/2011                                                                                                                                                                                                                                               |                     |              |
|              |                          |                 |            | Due to OIS                                                                    | 4/8/2011                                                                                                                                                                                                                                               |                     |              |
| RES #2010214 | <input type="checkbox"/> |                 | RES NONE   | Provide final MIT Summer Safety Course Presentation<br>(Input from Divisions) | Division to provide input on presentation by 4/15/2011                                                                                                                                                                                                 |                     | Brett Rini   |
|              |                          |                 |            | <b>Milestone Description</b>                                                  | <b>Original Dat</b>                                                                                                                                                                                                                                    | <b>Revised Date</b> |              |
|              |                          |                 |            | Input from Divisions                                                          | 4/15/2011                                                                                                                                                                                                                                              |                     |              |
|              |                          |                 |            | Due to FO                                                                     | 5/2/2011                                                                                                                                                                                                                                               |                     |              |

**From:** ManageBetter.biz Insider  
**To:** Cass, Michael  
**Subject:** Improve staffers' problem-solving; Bar cliques from teams; Discipline? Try mediation; and more ...  
**Date:** Friday, March 25, 2011 1:13:21 PM



#### Motivational Manager

### Take charge of your team from the beginning

Teamwork doesn't just happen. It usually takes a focused effort from a manager...

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#### Leading for Results

### Six steps to improve employees' problem-solving

As a manager, you've got to teach your employees how to solve common workplace problems on their own. Share this step-by-step strategy with them...

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#### Employee Recruitment and Retention

### Engage and retain employees with active career guidance

Organize your efforts to develop your employees' skills and strengthen your ties with this advice...

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#### Communication Solutions

### When a worker requires discipline, try opting for mediation

Disciplining workers can end up escalating problems. Fortunately, there's an alternative that provides the following benefits...

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#### Managers Intelligence Report

### Teams are no place for cliques

If you want to keep your team productive and healthy, you have to keep the "in crowd" from taking over...

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#### BLOGS

##### Efficiency

### Work Life Balance: Defining it for Yourself

As each of us is different, how we do our job and set our priorities is an individual undertaking. The same is true when defining who we are as people and determining our personal responsibility. The only person who can...

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[Coaching Success](#)

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**Price: \$139**  
**Member Price: \$99**

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### Tweet, talk or text: How to effectively communicate in a high-tech world

**Price: \$139**  
**Member Price: \$99**

Wednesday, April 20, 2011  
2-3:15 p.m. Central

### 25 tips to lead your team through change

**Price: \$139**  
**Member Price: \$99**

Wednesday, April 6, 2011  
2-3:15 Central

### Efficiency techniques for administrative professionals

**Price: \$139**  
**Member Price: \$99**

Tuesday, March 29, 2011  
2 - 3:15 p.m. Central

#### FEATURED BLOGGER:

**K.J. McCorry** is the CEO of [Efficiency Enterprises @ Inc.](#), a professional productivity, efficiency and sustainability consulting company based out of Boulder, Colorado. K.J.'s work in office process simplification has been recognized locally and nationally in the New York Times, International Herald Tribune, Chicago Tribune, Real Simple, Better Homes & Gardens with TV and radio appearances on the Do It Yourself Network, The Peter Boyles Show, and World Talk Radio. She is also the author of *Organize Your Work Day In No Time*, released in April 2005 by Que Publishing. She is currently working on her second book on becoming a 'paperless' office.

#### BECOME A MEMBER

[Leading for Results](#)

## PowerPoint Presentation Tip for Spanish-Speaking Audience Members

I recently delivered a presentation skills training program to a group of urologists from Mexico, Central and South America - with the training conducted in New York. These physicians mostly present slides in Spanish, and they taught me a few...

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*Spark*

### I'm Certain About Uncertainty

We all want the guarantee--our lovers will love us forever, our investments will increase in value, our jobs will last until we retire, our computers will never crash. If you are over the age of 15, you have come to learn there are no guarantees--your pa

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## WHAT OUR MEMBERS ARE READING NOW



*Managers Intelligence Report*



**Time-management tip: Prioritize tasks**

If your to-do list is so crowded you don't know what to do first, try this technique...



*Leading for Results*



**Keep telecommuters connected this way**

Managers frequently worry that telecommuting employees will lose their feeling of connection with their company while working at home...



*Employee Recruitment and Retention*



**Experience: Good or bad? It depends on several factors**

Experience may be a legitimate factor, but it shouldn't be the only one you use...



*Communication Solutions*



**Tactics to encourage workers to share their ideas**

There's no single answer, but here are some ideas...



*Motivational Manager*



**Look for the ideal world in your workplace**

Motivation and engagement depend on the right match of values between employees and the organizations they work for...

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### The



### Manager's Intelligence Report

Published: Monthly  
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### The



### Motivational Manager

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Do not reply to this message

**From:** [do\\_not\\_reply@ilearnnrc.plateau.com](mailto:do_not_reply@ilearnnrc.plateau.com)  
**To:** [Case, Michael](#)  
**Subject:** Notification of Course Evaluation  
**Date:** Friday, March 25, 2011 1:51:01 AM

---

You recently completed a course.

You now have the opportunity to submit a brief and voluntary training evaluation survey in iLearn. These course evaluations improve HRTD's ability to collect and analyze course evaluation data and continually measure online course effectiveness.

To complete the course evaluation now, simply click on the following hyperlink. After you login into iLearn, you will automatically be routed to the Course Evaluations page.

[https://ilearnnrc.plateau.com/plateau/user/deeplink.do?linkId=QUESTIONNAIRE\\_SURVEY](https://ilearnnrc.plateau.com/plateau/user/deeplink.do?linkId=QUESTIONNAIRE_SURVEY)

You can also access the course evaluation by:

1. Login to iLearn
2. Click on Learning in the navigation bar
3. Click on Course Evaluations in the drop down box
4. Find the course and click on Launch Evaluation to the right of the course title.

For more information please refer to the following job aid: [Completing a Course Evaluation](#)

**Why should I complete a Course Evaluation?**

The course evaluations improve HRTD's ability to collect and analyze course evaluation data and continually measure online course effectiveness. Reaction data is a critical factor in improving or redesigning training programs.

For additional information please contact your training coordinator.

The name and contact information for training coordinators may be found at:

<http://papaya.nrc.gov/Training/coordinators.cfm>

Please tell us whether this notification was helpful by clicking on the following link.

<https://www.surveymonkey.com/s/6M25CCR>

\*\*\*\*\*

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\*\*\*\*\*

**From:** [West, Stephanie](#)  
**To:** [Boyce, Tom \(RES\)](#)  
**Cc:** [Richards, Stuart](#); [Case, Michael](#)  
**Subject:** ACRS Response  
**Date:** Friday, March 25, 2011 4:28:22 PM

---

Tom,

Mekonen came back to me regarding the ACRS response. He had me add the Conclusion back in to the document and advised me to drop OGC off the concurrence grid. All of your other edits remain in place.

As a result of these changes, I ran it past Stu Friday evening. He wants to confirm this is how the document should be before giving it to Brian. Stu assured that Brian will not be reviewing anything today anyway. The document is with me and I will have it on the top of my list for Monday morning.

Stephanie West  
Administrative Assistant, RES/DE  
US Nuclear Regulatory Commission  
ph: 301-251-7619  
fax: 301-251-7425  
[stephanie.west@nrc.gov](mailto:stephanie.west@nrc.gov)

**From:** [Federal Computer Week and GCN](#)  
**To:** [Case, Michael](#)  
**Subject:** A core technology for cloud computing  
**Date:** Friday, March 25, 2011 9:01:26 AM

---



This Federal Computer Week and GCN exclusive webcast is sponsored by IBM

Dear Michael,

EMA research has shown that the service catalog is pivotal for deployment of virtual computing environments where employee, customer and partner interaction is high.

This exclusive webcast featuring EMA Research Director Lisa Erickson-Harris and IBM Product Manager Pandian Athirajan will discuss what is driving renewed investment in the service catalog and how it has grown beyond the IT shop, as well as learn:

- Highlights from end-user research justifying the service catalog in virtual computing strategies;
- How the service catalog can be useful outside of IT;
- Toolset requirements for flexibility and
- Tips for avoiding the mishaps often experienced in service catalog design.

#### SPEAKERS

**Lisa Erickson-Harris**, Research Director, IBM

**Pandian Athirajan**, Product Manager, IBM

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#### **LIVE WEBCAST**

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#### **Webcast Details**

#### **Service Catalog: A Core Technology for Cloud Computing and Enterprise Services**

Date: **March 31, 2011 (Thurs)**

Time: **2 pm (ET) / 11 am (PT)**

Location: **Your Computer**

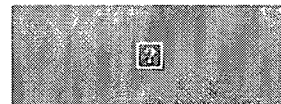
Cost: **FREE**

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**From:** [Ramadan, Liliana](#)  
**To:** [Case, Michael](#)  
**Cc:** [Richards, Stuart](#); [Koshy, Thomas](#)  
**Subject:** RE: Battcon Technical Conference Presentation Slides  
**Date:** Friday, March 25, 2011 8:22:19 AM  
**Attachments:** [Battery Presentation Battcon 3232011.pptx](#)

---

Good morning Mike,

As described below, the presentation slides are attached. Your comments are greatly appreciated.

Thanks,

*Lily Ramadan*

Project Manager-Electrical Engineering Branch  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20850  
301-251-7642

---

**From:** Ramadan, Liliana  
**Sent:** Tuesday, March 08, 2011 3:50 PM  
**To:** Case, Michael  
**Cc:** Richards, Stuart; Koshy, Thomas  
**Subject:** Battcon Technical Conference Paper  
**Importance:** High

Hi Mike,

I have attached a paper that will be presented at a technical battery conference May 2011. This paper has been collaborated with NRR and BNL. However, I would like to get your comments before its finalized.

I can brief you on the intent of the paper tomorrow morning or when your schedule better allows. At this point, I'm working on the presentation slides that will be incorporated as part of the NRC package for this upcoming conference.

Please feel free to ask me further questions,

*Lily Ramadan*

Project Manager-Electrical Engineering Branch  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20850  
301-251-7642

Attachment Battery Presentation\_Battcon\_3232011.pptx (2359206 Bytes) cannot be converted to PDF format.

**From:** [NRC Announcement](#)  
**To:** [NRC Announcement](#)  
**Subject:** Daily: 3 New Items from Friday, March 25, 2011  
**Date:** Friday, March 25, 2011 10:01:18 PM

REF  
NRC Daily Announcements

Highlighted Information and Messages

**Friday March 25, 2011 -- Headquarters Edition**

**[Employee Resources: Holocaust Remembrance Program 2011](#)**

**[Employee Resources: Eligible Leave Share list](#)**

**[Policy: Continued Implementation of Homeland Security Presidential Directive-12 for Access to U.S. Nuclear Regulatory Commission Facilities and Information Systems](#)**

### **Employee Resources: Holocaust Remembrance Program 2011**

The annual Federal Inter-Agency Holocaust Remembrance Program is being held on Friday, May 4, 2011 at 11:30 a.m. at the Lincoln Theatre in Washington, DC. This program is a part of the National Days of Remembrance observances being held from May 1 to May 8, 2011, to commemorate the Holocaust, remember and honor the victims, and educate citizens so people will never forget. The theme for this year's program is *Survival*. This program is approximately two hours long, is free, and is open to the public.

For more information, please refer to the Office of Personnel Management's [announcement](#).

NRC employees who wish to attend this program may be authorized excused absence for a reasonable period of time with proper notice to their manager in advance.

Contact your servicing [Human Resources representative](#).



(2011-03-25 00:00:00.0)

[View item in a new window](#)

### **Employee Resources: Eligible Leave Share list**

The Office of Human Resources Web page for Eligible Leave Transfer Program Recipients has been updated to add the following eligible recipient:

Debra Bower, OCFO

For more information on the Voluntary Leave Transfer Program and to view the current list of eligible recipients who have exhausted all of their available leave due to personal or family illness, visit the [Eligible Recipient List Web page](#). The Web site also provides the following information about the Leave Transfer Program: Overview, Donor Information, the Application to Become a Leave Recipient, and Time & Labor

AG/1146

Reporting Guidance.

Contact: Terri Barnes (phone 301-415-2805)

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If you have difficulty accessing a Web link in this announcement, contact the NRC Announcement Coordinator, Beverly Martin, ADM/DAS, 301-492-3674.



(2011-03-25 00:00:00.0)

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**Policy: Continued Implementation of Homeland Security Presidential Directive-12 for Access to U.S. Nuclear Regulatory Commission Facilities and Information Systems**

Yellow Announcement No. 038, "Continued Implementation of Homeland Security Presidential Directive-12 for Access to U.S. Nuclear Regulatory Commission Facilities and Information Systems," is now available on the internal Web site under Yellow Announcements.

This announcement can also be found in the ADAMS 2011 Yellow Announcements folder in the Main Library of the ADAMS Document Manager. In the folder, Yellow Announcements are arranged in report number order.

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If you have difficulty accessing a Web link in this announcement, contact the NRC Announcement Coordinator, Beverly Martin, ADM/DAS, 301-492-3674.



(2011-03-25 00:00:00.0)

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**From:** [Grobe, Jack](#)  
**To:** [Ruland, William](#)  
**Cc:** [Leeds, Eric](#)  
**Subject:** Fw: AFTER ACTION REPORT - STRATEGIC ACQUISITION EXECUTIVE STEERING COMMITTEE  
**Date:** Friday, March 25, 2011 11:02:48 PM

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REL

This will be yours. Get up to speed.  
-----Original Message-----

From: Narick, Marianne  
To: Eric Leeds  
Cc: Kimberly Ferrell  
Cc: Mary Givvines  
Cc: Jack Grobe  
Cc: Bruce Boger  
Subject: AFTER ACTION REPORT - STRATEGIC ACQUISITION EXECUTIVE STEERING COMMITTEE  
Sent: Mar 24, 2011 6:05 PM

Eric:

I attended the first Strategic Acquisition Executive Steering Committee (SA/ESC) meeting on March 22, 2011. Minutes will be issued by Phyllis Bower but are not available yet, so I'm providing a summary of the meeting at this time to ensure that you are aware of the current status of the Strategic Acquisition initiative. Attached are briefing charts used in support of the meeting and a draft Charter for the group. Darren Ash kicked off the meeting; Phyllis Bower facilitated. The only take away was a request that the Offices provide feedback on the Charter within 1 week of the date of the meeting.

The purpose of the SA/ESC is described in more detail in the Charter but it is essentially to provide support for the Strategic Acquisition initiative and as noted by Darren Ash, to identify any impediments to the success of the initiative. Members are Office Directors and/or their designees. Darren Ash will chair the meetings. The committee will meet monthly for 1 hour and is meant to be a fairly short term activity that will disband once full implementation of strategic acquisition is achieved.

Phyllis Bower provided an overview of the Strategic Acquisition initiative stating that it will lead to increased operational efficiencies, streamlined NRC acquisition practices through enterprise-wide procurements, support of greater transparency, standardization of procurement processes across the agency, and improved alignment of budget execution and formulation activities. Phyllis  
Jack Grobe, Deputy Director, NRR

AG/1147

**From:** Richards, Stuart  
**To:** Sheron, Brian  
**Cc:** Case, Michael; Hogan, Rosemary; Graves, Herman; Gibson, Kathy  
**Subject:** FW: NUREG/CR-6920  
**Date:** Friday, March 25, 2011 11:35:58 PM

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Brian

As Herman notes below, NUREG/CR-6920 is cited by Ed Lyman in a Time magazine website article from earlier in the week. This might be the source of the question that you got today on your conference call.

fyi  
Stu

---

**From:** Graves, Herman  
**Sent:** Friday, March 25, 2011 6:49 PM  
**To:** Richards, Stuart  
**Cc:** Hogan, Rosemary; Case, Michael  
**Subject:** RE: NUREG/CR-6920

Stu,

This is the Times article that may be the source of the inquiry (title of NUREG/CR-6920 is cited in the 2nd to the last paragraph of article).

<http://www.time.com/time/world/article/0,8599,2058700,00.html>

<<Herman>>  
<<301.251.7625>>  
mail to: Herman.Graves@nrc.gov<<mailto:Herman.Graves@nrc.gov>>

**From:** Richards, Stuart  
**Sent:** Friday, March 25, 2011 6:03 PM  
**To:** Sheron, Brian  
**Cc:** Gibson, Kathy; Case, Michael; Hogan, Rosemary; Graves, Herman  
**Subject:** RE: NUREG/CR-6920

Brian

We'll work with DSA on Monday.

Stu

**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.

[cid:image001.jpg@01CBEB1D.6F8865E0]

**From:** Sheron, Brian  
**Sent:** Friday, March 25, 2011 6:00 PM

AG/1148

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