

From: [Wood, Jeffery](#)
To: [Drouin, Mary](#)
Cc: [Covne, Kevin](#); [Kuritzky, Alan](#); [Demoss, Gary](#)
Subject: FW: Update on ACRS briefing on NGNP R&D
Date: Tuesday, March 15, 2011 10:27:50 AM

Mary,

Are you able to or were you planning to support this ACRS briefing? I just realized I will be travelling that week.

Thanks,
Jeff

From: Basu, Sudhamay
Sent: Friday, March 11, 2011 4:17 PM
To: Kelly, Joseph; Wood, Jeffery; Rubin, Stuart; Srinivasan, Makuteswara; Malik, Shah; Sydnor, Russell; Basu, Sudhamay; Hull, Amy; Aissa, Mourad; Esmaili, Hossein; Graves, Herman; Herrity, Thomas; Weaver, Thomas; Lee, Richard; Fleger, Stephen; Drouin, Mary; Hudson, Nathanael; Yang, Yaguang
Cc: Zaki, Tarek; Scott, Michael
Subject: Update on ACRS briefing on NGNP R&D

Folks,

Below is the update on the subject. ACRS staffer Maitri is developing a formal agenda. As soon as that becomes available I will share with you. In the meantime, please take note of the following.

The meeting is scheduled on April 5, 2011. It will start at 10:00 a.m. and end at 5:00 p.m. with a lunch break between 12 noon and 1:00 p.m. That will give us 6 hours. ACRS Future plants Design subcommittee wants us to cover all technical areas in the plan. This means human factors, DI&C, and PRA folks are now on the hook. Below is the agenda

Overview by Basu (30 minutes)

Presentation on T/F, nuclear analysis, and FP by Kelly, Aissa, and Hossein with Kelly taking the lead (90 min)

Fuel by Stuart Rubin (45 min of which 15 min should be devoted to INL's fuel program),

Graphite by Srinivasan (30 min),

High temperature material by Shah (30 min),

Structural analysis (including seismic) by Graves or substitute (30 min)

PRA, HF, DI&C by respective technical leads (20 minutes each for a total of 60 min)

Remaining time currently set aside for any overflow and for subcommittee deliberation. The subcommittee chair also expressed a strong interest in the following topics.

1. Lessons learned from INL's AGR program and the impact it has on fuel and FP components of the NGNP R&D Plan.
2. Graphite burning
3. Seismic consideration – two aspects: (1) core compaction or instability due to a seismic event and implication for neutronics (reactivity, etc.) and thermal-fluids (bypass, cooling, etc.); (2) seismic consideration and margin in structural analysis
4. Siting consideration as it may impact R&D – several aspects: (1) geosstructural consideration; (2) co-location issue; and (3) physical security aspect.

AS/80

5. Integration of security into safety.

I plan to address items 4 (with the exception of geotechnical consideration) and 5 in my overview. I will expect that the respective technical leads will address other items in their presentations.

Please do not forget draft slides of your presentation are due March 21. Dry run is scheduled March 28. Final slides are due to ACRS April 4.

Thank you all.

From: Boger, Bruce
To: Raspa, Rossana
Cc: Leeds, Eric; Schwarz, Sherry
Subject: FW: OI-3-2010-034 (Exelon Decommissioning Financial Assurance)
Date: Tuesday, March 15, 2011 10:31:30 AM
Attachments: Conv Record re OI-3-2010-034.PDF

(b)(5)

From: Langan, Scott
Sent: Thursday, March 03, 2011 5:11 PM
To: Boger, Bruce
Cc: Heck, Jared; McGinty, Tim; Mullins, Charles; Pederson, Cynthia; McCrary, Cheryl; Krupnick, David
Subject: RE: OI-3-2010-034 (Exelon Decommissioning Financial Assurance)

Bruce,

(b)(5)

If you have any questions, please feel free to call me,

Scott

From: Boger, Bruce
Sent: Thursday, March 03, 2011 3:24 PM
To: Pederson, Cynthia
Cc: Heck, Jared; McGinty, Tim; Mullins, Charles; Langan, Scott
Subject: FW: OI-3-2010-034 (Exelon Decommissioning Financial Assurance)

Cindy, Thanks for bringing this to my attention. The information below is intended to

(b)(5)

AS/81

(b)(5)

FYI—it is my intent to provide the complaint to the OIG. As noted below, Exelon could also choose that route.

From: McGinty, Tim

Sent: Thursday, March 03, 2011 12:51 PM

To: Boger, Bruce

Cc: Blount, Tom

Subject: RE: OI-3-2010-034 (Exelon Decommissioning Financial Assurance)

Bruce – regarding information that should be shared with Jared for the purposes of calling Exelon back:

(b)(5)

(b)(5)

I hope you find this information helpful. Tim

From: Boger, Bruce
Sent: Tuesday, March 01, 2011 4:50 PM
To: Blount, Tom
Cc: McGinty, Tim
Subject: FW: OI-3-2010-034 (Exelon Decommissioning Financial Assurance)

(b)(5)

Thanks.

From: Boger, Bruce
Sent: Wednesday, February 23, 2011 4:40 PM
To: Blount, Tom
Subject: FW: OI-3-2010-034 (Exelon Decommissioning Financial Assurance)

Tom, Please consider the attached and let's chat about next steps. Thanks.

From: Pederson, Cynthia
Sent: Wednesday, February 23, 2011 4:36 PM
To: Boger, Bruce
Cc: Heck, Jared
Subject: FW: OI-3-2010-034 (Exelon Decommissioning Financial Assurance)

Official Use Only – Sensitive Allegation Information

Hi Bruce,

(b)(5)

(b)(5)

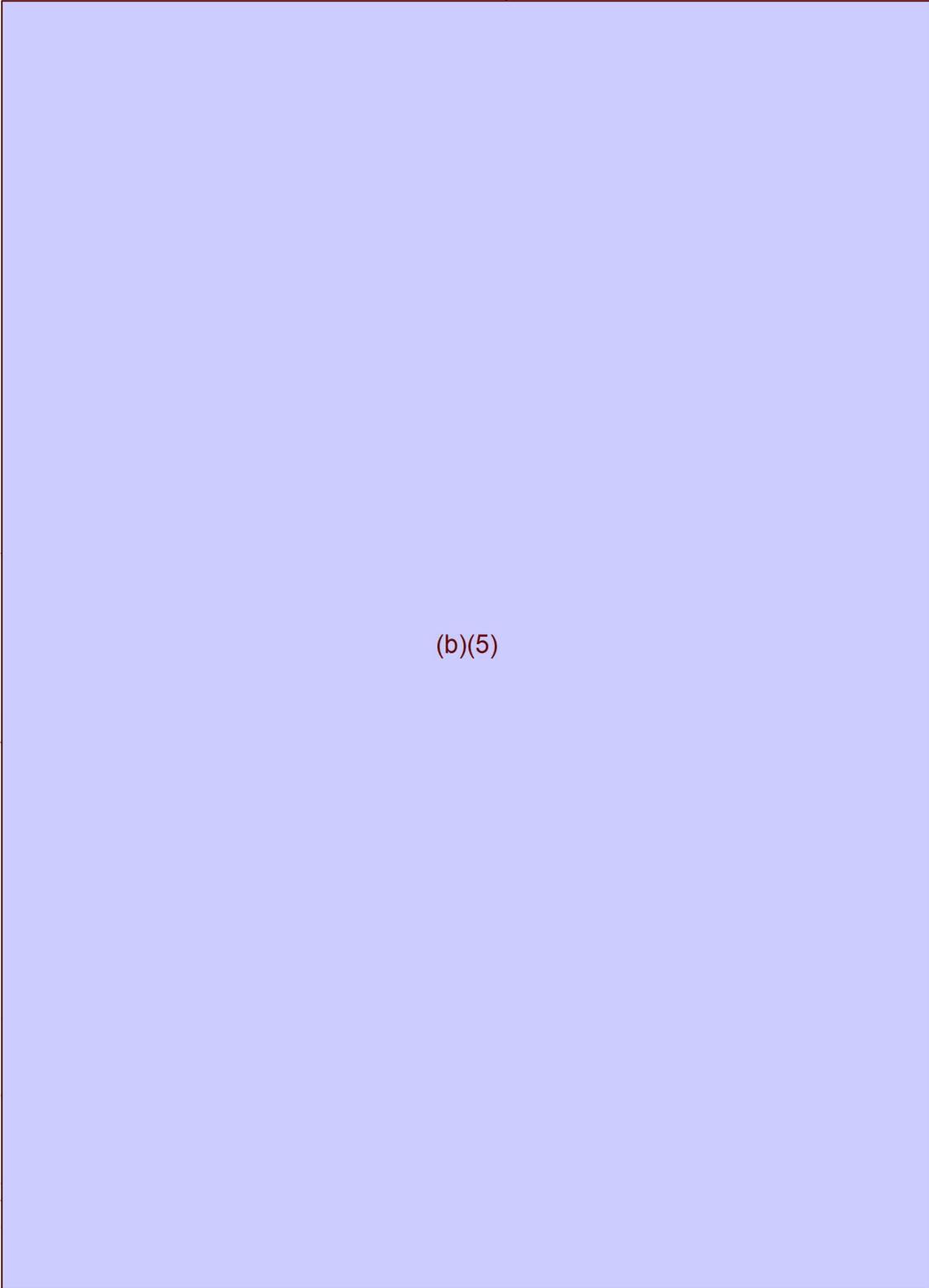
Please let me know if we can be of further assistance.
Thanks, Cindy

~~Official Use Only - Sensitive Allegation Information~~

Conversation Record

February 23, 2011

J. Heck



(b)(5)

(b)(5)

From: Case, Michael
To: Lorette, Phillip
Subject: FW: March 2011 MECC Agenda
Date: Tuesday, March 15, 2011 10:33:00 AM
Attachments: [ASM Failure Investigation Course.pdf](#)
[Comment Sheet -IP 7111108.docx](#)
[Screening Criteria WG Item 10.docx](#)
[ip71111.08_cklist_weld_version.doc](#)

Please print.

From: Wallace, Jay
Sent: Monday, March 14, 2011 5:15 PM
To: Adams, James; Alley, David; Anchondo, Isaac; Baquera, Mica; Bilik, Tom; Bloodgood, Michael; Bozga, John; Brand, Javier; Burket, Elise; Burns, Thomas; Carrion, Robert; Case, Michael; Chaudhary, Suresh; Chou, Rich; Clayton, Kelly; Collins, Brendan; Collins, Jay; Conte, Richard; Coursey, Michael; Csontos, Aladar; Drake, James; Dykert, Jason; Failla, David; Farnholtz, Thomas; Fletcher, Cecil; Franke, Mark; Gavrilas, Mirela; Gavula, James; Gray, Harold; Hardies, Robert; Hills, David; Hiser, Allen; Holmberg, Mel; Honcharik, John; Jones, Donald; Jones, William; Jose, Benny; Karwoski, Kenneth; Kaufman, Paul; Kerr, Matthew; Kopriva, Ron; Lake, Louis; Lupold, Timothy; Makor, Shiattin; Meghani, Vijay; Michel, Eric; Mitchell, Matthew; Modes, Michael; Neurauter, James; Norato, Michael; Norris, Wallace; Nove, Carol; (b)(6); Obodoako, Aloysius; OHara, Timothy; Ray, Neil; Reichelt, Eric; Reinert, Dustin; Rezai, Ali; Rivera-Ortiz, Joel; Rudland, David; Sanchez Santiago, Elba; Sengupta, Abhijit; Shaikh, Atif; Sifre, Wayne; Stevens, Gary; Taylor, Robert; Terao, David; Wallace, Jay; Werner, Greg; Widrevitz, Dan; Williams, Robert; Young, Matt
Subject: March 2011 MECC Agenda

MATERIALS ENGINEERING COUNTERPARTS CALL

Wednesday, March 16, 2011, 2:00 PM

Purpose: Forum to share information, exchange ideas, obtain feedback, and gain consensus regarding materials engineering and degradation issues.

HQ Location: O-9B6

Conference Call #: 1-888-677-5129; PassCode (b)(6)

Agenda:

1. NRR – Division of Component Integrity

Vessel and Internals Integrity Branch

Piping and NDE Branch

SG Tube Integrity and Chemical Engineering Branch

Component Performance and Testing Branch

AS/82

2. Regional Divisions of Reactor Safety

Region I

Harold Gray, ASM Failure Investigation Course (Attachment)

Region II

Region III

Mel Holmberg, ISI Working Group discussion on procedure comment resolution (Attachments)

Region IV

3. RES – Division of Engineering

Component Integrity Branch

Corrosion and Metallurgy Branch

4. NRO – Division of Engineering

Component Integrity, Performance, and Testing Branch 1

Component Integrity, Performance, and Testing Branch 2

5. Emergent Topics

How to Organize and Run a Failure Investigation

1.3 CEUs



Daniel P. Dennies, PhD

In this two-day course you will learn a proven, systematic approach to failure investigation, which utilizes examples from the aerospace industry and teaches the steps you need to follow. The effect of various failure sources, such as corrosion, on the organization of the investigation will be analyzed. It will provide a learning platform for engineers from all disciplines; materials, design, manufacturing, quality and management.

February 28 - March 1

Location: Foothill Ranch, CA

September 26-27

Location: ASM Headquarters, Materials Park, OH

Price: \$880 / ASM Member: \$729



This course is most beneficial when taken together with the 3-day Principles of Failure Analysis course. **Attend both and SAVE.**

Price: \$1969 / ASM Member: \$1669

February 28 - March 4

September 26-28

SAVE \$200!

THIS ASM COURSE WAS VERY WELL DONE. A SUMMATION OF THE KINDS OF QUESTIONS AND ISSUES THAT MATERIALS ENGINEERS SEE OFTEN.

COMBINATION OF BOTH COURSES.

Principles of Failure Analysis - 3 Day

2.0 CEUs



Daniel P. Dennies, PhD

This condensed lecture course is designed to provide the knowledge to bridge the gap between theory and practice of failure analysis. This course is presented in a very practical approach for those who are new to the field or those who need an update. It is also designed for technicians with the pre-requisites and for those interested in understanding how a deeper knowledge of failure analysis can lead to better productivity. Causes of fractures are explained using diagrams of stress application and distribution. Several case histories of failures and their elimination are discussed throughout the course.

March 2-4

Location: Foothill Ranch, CA

September 28-30

Location: ASM Headquarters, Materials Park, OH

Price: \$1325 / ASM Member: \$1170



2011 ASM EDUCATION COURSES YEAR AT A GLANCE

www.asminternational.org/training

| Course Title | Pg | Jan |
|---|----|-------|
| Materials Engineering | | |
| Aluminum and Its Alloys | 43 | |
| Corrosion | 42 | |
| Elements of Metallurgy | 42 | |
| Introduction to Polymers and Polymer Testing | 43 | |
| Metallurgy for the Non-Metallurgist | 41 | 10-14 |
| Metallurgy of Steel for the Non-Metallurgist | 41 | |
| Oilfield Metallurgy | 42 | |
| Stainless Steels | 41 | |
| Titanium and Its Alloys | 42 | |
| Nuclear | | |
| Materials for Nuclear Power Plants | 43 | |
| Heat Treating | | |
| Introduction to Heat Treating | 44 | |
| Advanced Heat Treating | 44 | |
| Heat Treating for the Non Heat Treater | 45 | |
| Heat Treatment, Microstructure & Performance of Carbon and Alloy Steels | 44 | |
| Practical Heat Treating | 45 | |
| Practical Induction Heat Treating | 44 | |
| Welding | | |
| Metallurgy of Welding and Joining | 45 | 24-28 |
| Welding Inspection and Quality Control | 45 | |
| Metallography | | |
| Metallographic Techniques | 46 | |
| Advanced Metallographic Techniques | 46 | |
| NEW! Fastener Metallography I | 48 | |
| NEW! Fastener Metallography II | 48 | |
| Introduction to Metallurgical Lab Practices | 47 | |
| Metallographic Interpretation | 47 | |
| Metallography for Failure Analysis | 47 | 10-15 |
| Steel Metallography | 47 | |
| Practical Interpretation of Microstructures | 46 | |
| Failure Analysis | | |
| Applied Techniques of Failure Analysis | 49 | |
| Fractography | 50 | |
| How to Organize and Run a Failure Investigation | 49 | |
| Practical Fractography | 50 | |
| Practical Fracture Mechanics | 50 | |
| Principles of Failure Analysis 3-day | 49 | |
| Principles of Failure Analysis 5-day | 49 | |
| Mechanical Testing | | |

| Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---------------------|-------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|
| | | | | 6-10 | | | | 3-7 | | |
| | | | 23-27 | | | | | | | 12-16 |
| | | 11-15 | | | | | 19-23 | | | |
| | | 4-6 | | | | | | | | |
| | | | 16-20 | | | | 12-16 | | 7-11 | |
| | | | 9-11 | | | | | 3-5 | | |
| | 14-16 | | | | | | | | 14-16 | |
| | | | 16-20 | | | | | | | |
| | 21-25 | | | | | | | 24-28 | | |
| Feb 28-Mar 4 | | | | | | | | | | |
| | | | | | | | | 10-14 | | |
| 14-16 | | | | | | | | | 7-9 | |
| 17-18 | | | | | | | | | 10-11 | |
| | | | | 20-22 | | | | | 2-4 | |
| | | | 9-11 | | | | 26-30 | | | |
| | 21-25 | | | | | 1-5 | | | | |
| | | 4-8 | | | | | | 24-28 | | |
| 18-22 | | | | | | | | | | |
| | | | 2-6 | | | | | 10-14 | | |
| | 7-11 | | | 20-24 | | | 19-23 | | | 5-9 |
| | | 4-8 | | | 18-22 | | | | 7-11 | |
| 1-2 | | | | 13-14 | | | | | | |
| 8-9 | | | | 15-16 | | | | | | |
| 21-23 | | | | 27-29 | | | | | 14-16 | |
| | | | | | 11-15 | | | | | |
| | | | | | | 22-26 | | | | |
| | | | | | | | 12-16 | | | |
| | 7-11 | | | | | | 26-30 | | | |
| 10-14 | | | | | | | | | | |
| | | | | | | Aug 29-Sept 2 | | | | |
| Feb 28-Mar 1 | | | | | | | 26-27 | | | |
| | | | 18-20 | | | | 28-30 | | | |
| | | | 16-18 | | | | 26-28 | | | |
| | 2-4 | | | | | | 28-30 | | | |
| | | | | 13-17 | | | | | | 5-9 |

GENERAL INFORMATION

Complementary membership is included with all courses at nonmember price.

To register visit www.asminternational.org/training or call 1.800.336.5152. Course fee includes instructor-led training, course materials, lunch (Mon.-Thurs.) and coffee breaks. You will receive a confirmation letter, invoice and maps after confirmed registration. Upon completion you will receive a certificate stating CEUs earned. ASM reserves the right to reschedule or cancel classes with low registration and notify students. Students should review the ASM Late Registration and Cancellation Policy and purchase airline tickets and hotel accommodations accordingly. Students may stay at the hotel of their choosing; however, ASM has arranged a discount with Homewood Suites* Beachwood for \$89/night single occupancy. Complete ASM Education information is available at www.asminternational.org/training.

**Note: During ASM headquarters renovation May 1, 2010-August 1, 2011 ASM training classes will be held at the Homewood Suites in Beachwood, Ohio or at the location noted in the course description. Course dates after August 1, 2011 which do not have a location indicated will be held at our renovated Headquarters location. Class hours are 8:30-4:30 Monday-Thursday, 8:30-Noon Friday unless noted.*

SELF-STUDY MATERIALS

Learn Anytime, Anywhere. With an ASM Self-Study Course you get everything you need: Access to course materials, quiz and examination materials- all online. Earn 1.3-3.0 CEUs and a Certificate of Completion. Complete list of available self-study courses can be found at www.asminternational.org/selfstudy Choose from: *Metallurgy for the Non-Metallurgist*®, *Principles of Failure Analysis, Corrosion*, or 19 others!

METALLOGRAPHY CERTIFICATE OF ACHIEVEMENT

If you wanted to major in metallography, ASM offers a structure 11-12 course program of required and elective courses focusing on aspects not taught in college and too time consuming to learn on the job. Program highlights can be obtained at www.asminternational.org/MetCert or by calling Member Services at 1.800.336.5152, ext. 0.

ONLINE COURSES

Available 24/7. Start an ASM Online Course when you're ready and learn at your own pace. There's no travel and no hassle! Course material, quizzes and examinations are all delivered online. And, our training professionals are with you every step of the way- contact your instructor at any time via email or chat during specified online "office hours." Earn CEUs to keep your professional certification current. Complete list of available online courses can be found at www.asminternational.org/OnlineCourses. Choose from: *Metallurgy for the Non-Metallurgist*®, *How to Organize and Run a Failure Investigation* or 72 others!

EXTENSION DIPLOMAS

Looking for a way to be recognized for your efforts to stay ahead of the curve and increase your knowledge? An ASM Extension Diploma demonstrates your accomplishment in one of seven areas. Applicants completing five courses (required and elective) in any of these areas are eligible for the extension diploma. Diplomas are available in: Ceramic Technology, Corrosion-Chemical & Elevated Temperature, Heat Treating, Ferrous Metallurgy, Applied General Metallurgy, Nonferrous Metallurgy, Testing & Inspection and Welding Metallurgy. For complete listing of the required and elective courses visit www.asminternational.org/ExtensionDiploma or call Member Services at 1.800.338.5152, ext. 0.



ASM INTERNATIONAL'S LEARNING MANAGEMENT SYSTEM!

Implemented in 2010 the LMS offers accessible learning around the clock. Registration, track course enrollment and progress, completions, certificates earned, test results and CEUs are all maintained by the system so you, the student, can concentrate on the learning! Effectively and conveniently achieve your career development goals.

IP 7111108 (ISI) – Procedure Comments/Suggestions for Discussion- 2/16/2011

| Item Number and WG Action | Submitted by & Date | Comment or Suggestion | Reason for Change |
|--|--|-----------------------|-------------------|
| Item 1- WG Action- RII L. Lake R. Williams | 12/2010 – Ken Karwoski – NRR DCI and Mel Holmberg- RIII | (b)(5) | |
| Item 2- WG Action- RII L. Lake R. Williams | 12/2010 Ken Karwoski – NRR DCI | | |
| Item 3- WG Action- RII L. Lake R. Williams | 12/2010 Mel Holmberg- RIII | | |
| Item 4- WG Action- RI T. O'hara T. Burns | 12/2010 Mel Holmberg- RIII | | |

| | | |
|---|--------------------------------------|--------|
| Item 5- WG Action- RIII M. Holmberg | 12/2010 Ken Karwoski – NRR DCI | (b)(5) |
| Item 6- WG Action RIV J. Drake I Anchondo | 1/2011 John Jandovitz - RIII | |
| Item 7 WG Action RIV J. Drake I Anchondo | 1/2011 David Hills | |
| Item 8 WG Action- RI T. O'hara T. Burns | 01/2011 Isaac Anchondo - RIV | |
| Item 9 WG Action- RI T. O'hara T. Burns | 01/2011 Isaac Anchondo - RIV | |

| | | |
|--|----------------------------------|--------|
| | | |
| Item 10 WG Action- RIII M. Holmberg | 01/2011 Harold Gray - RI | |
| Item 11 WG Action- RI T. O'hara T. Burns | 01/2011 Jason Dykert - RIV | (b)(5) |

| | | |
|---|-------------------------------------|--------|
| | | |
| Item 12 WG Action- RIII M. Holmberg | 01/2011 Isaac Anchondo, - RIV | (b)(5) |

| | | |
|---|--|--------|
| | | |
| Item 13 WG Action- RIII M. Holmberg | 02/03/2011 David Hills - RIII | (b)(5) |
| Item 14 WG Action- RII L. Lake R. Williams | 2/16/2011 Paul Kaufman- Region 1 | |

| | | |
|---|---|---------------|
| <p>Item 15</p> <p>WG Action- RI</p> <p>T. O'hara</p> <p>T. Burns</p> | <p>2/16/2011</p> <p>M. Holmberg- Region III</p> | <p>(b)(5)</p> |
|---|---|---------------|

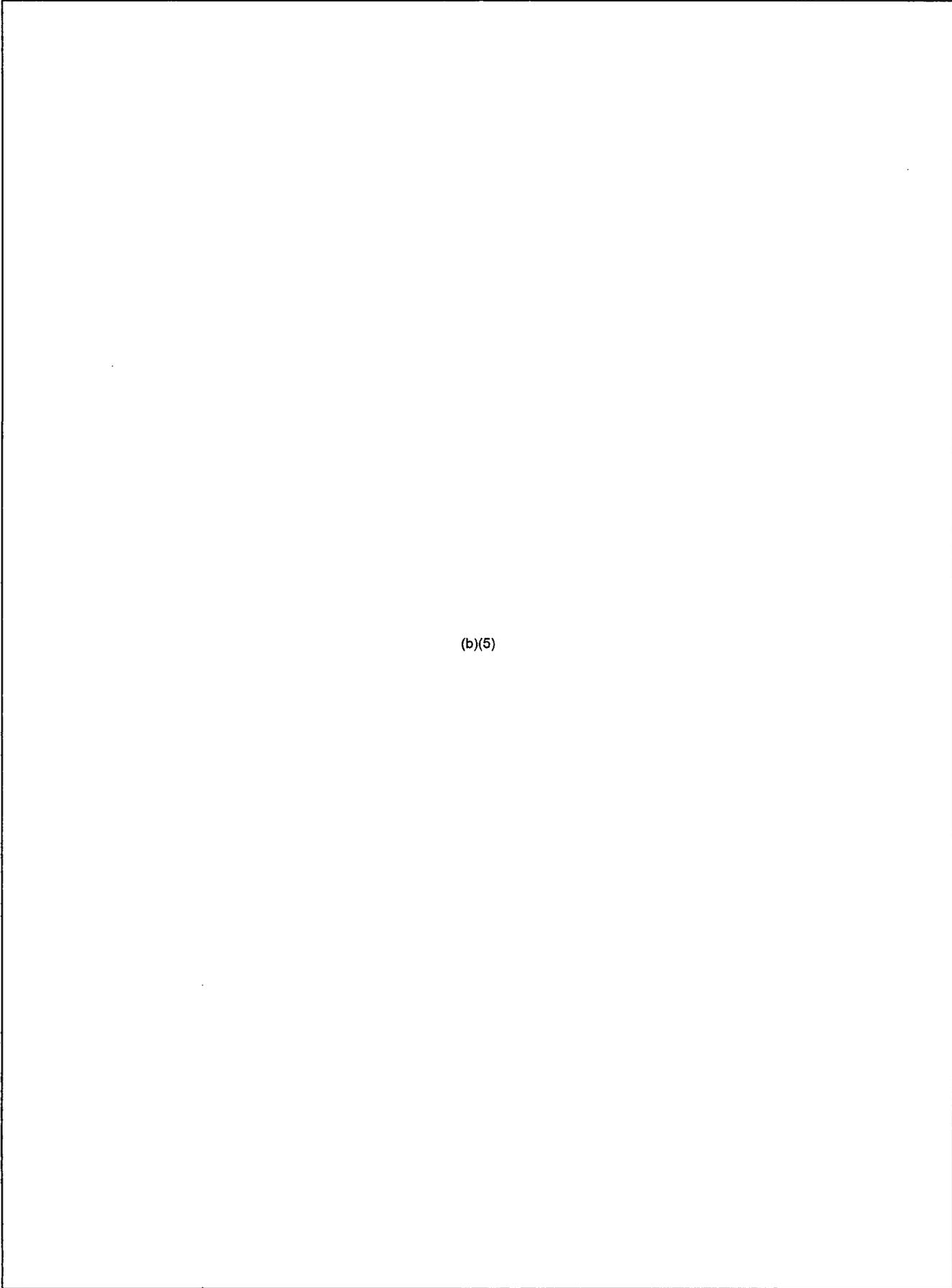
| | | |
|---------|--------------------------|--------|
| Item 16 | 2/23/11 Tim OHara, R1 | (b)(5) |
| Item 17 | 3/4/11 Holmberg | |

Screening Criteria for Working Group Evaluation of Proposed Changes to ISI Procedure

Work Group Item Number 10 Title Clarify Procedure to Identify Attributes vs Requirements

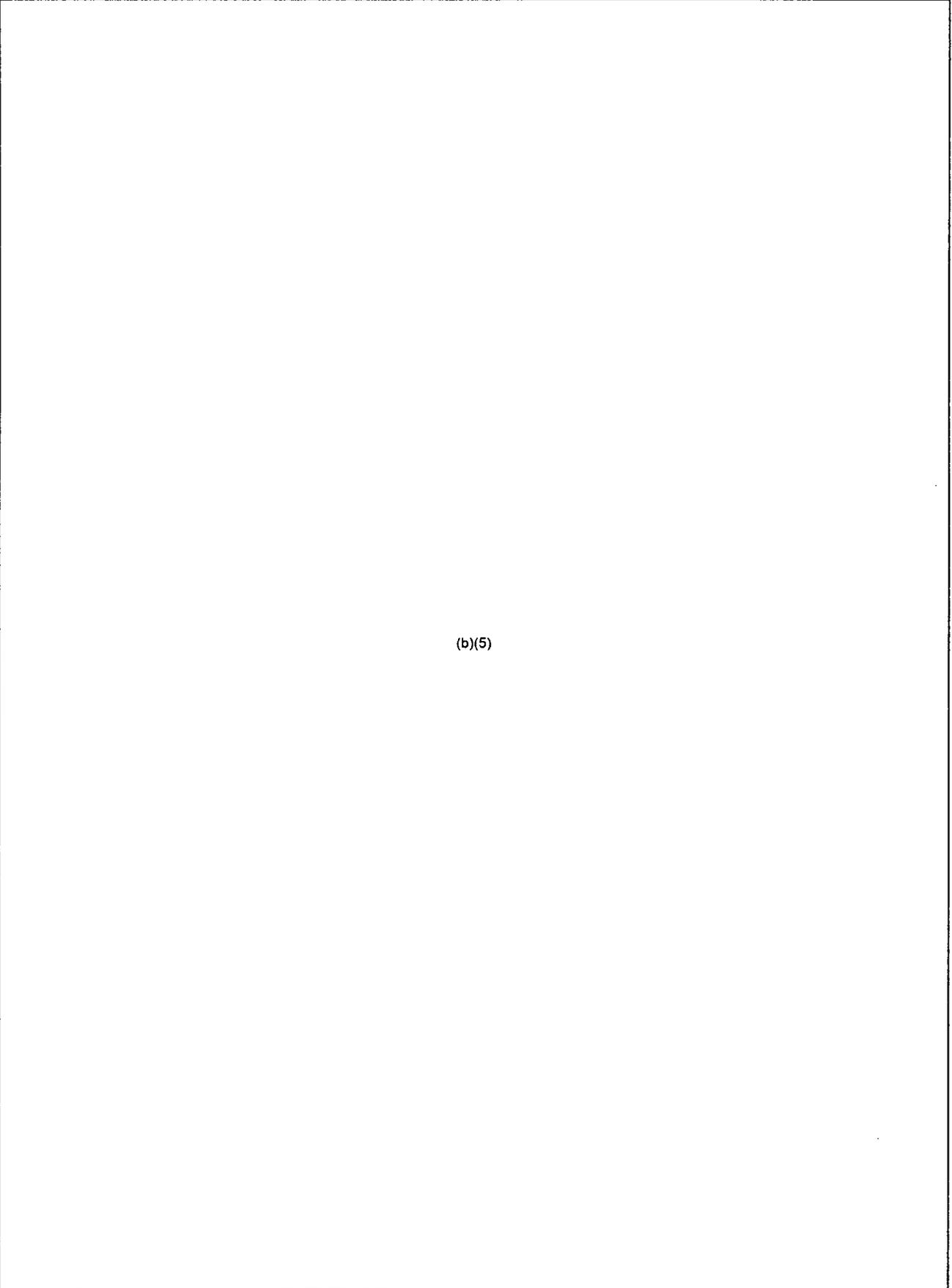
(b)(5)

(b)(5)



(b)(5)

-



(b)(5)

ATTACHMENT 1

REVISION HISTORY FOR IP 71111.08

| Commitment Tracking Number | Issue Date | Description of Change | Training Needed | Training Completion Date | Comment Resolution Accession Number |
|---|-----------------------|---|-----------------|--------------------------|-------------------------------------|
| C-1 Reference: DBLLTF 3.3.4(3) | | Revision History Reviewed for last four years. Develop Inspection Guidance for Vessel Head Penetrations and RPV Head Area Inspections. | No | N/A | N/A |
| C-2 Reference: DBLLTF 3.3.2(1) | | Revision history reviewed for last four years. Develop Inspection Guidance For Boric Acid Corrosion Control Programs. | No | N/A | N/A |
| None | 10/04/07 CN 07-031 | IP 71111.08 has been revised to incorporate best practices of ISI working group. | No | N/A | ML072400349 |
| None | 03/23/09 CN 09-010 | IP 71111.08 has been revised to address feedback form 71111.08-1319 by incorporating the changes to 10 CFR 50.55a(g)(6)(ii)(D) | No | N/A | N/A |

Issue Date: 11/09/09
Effective Date: 01/01/10

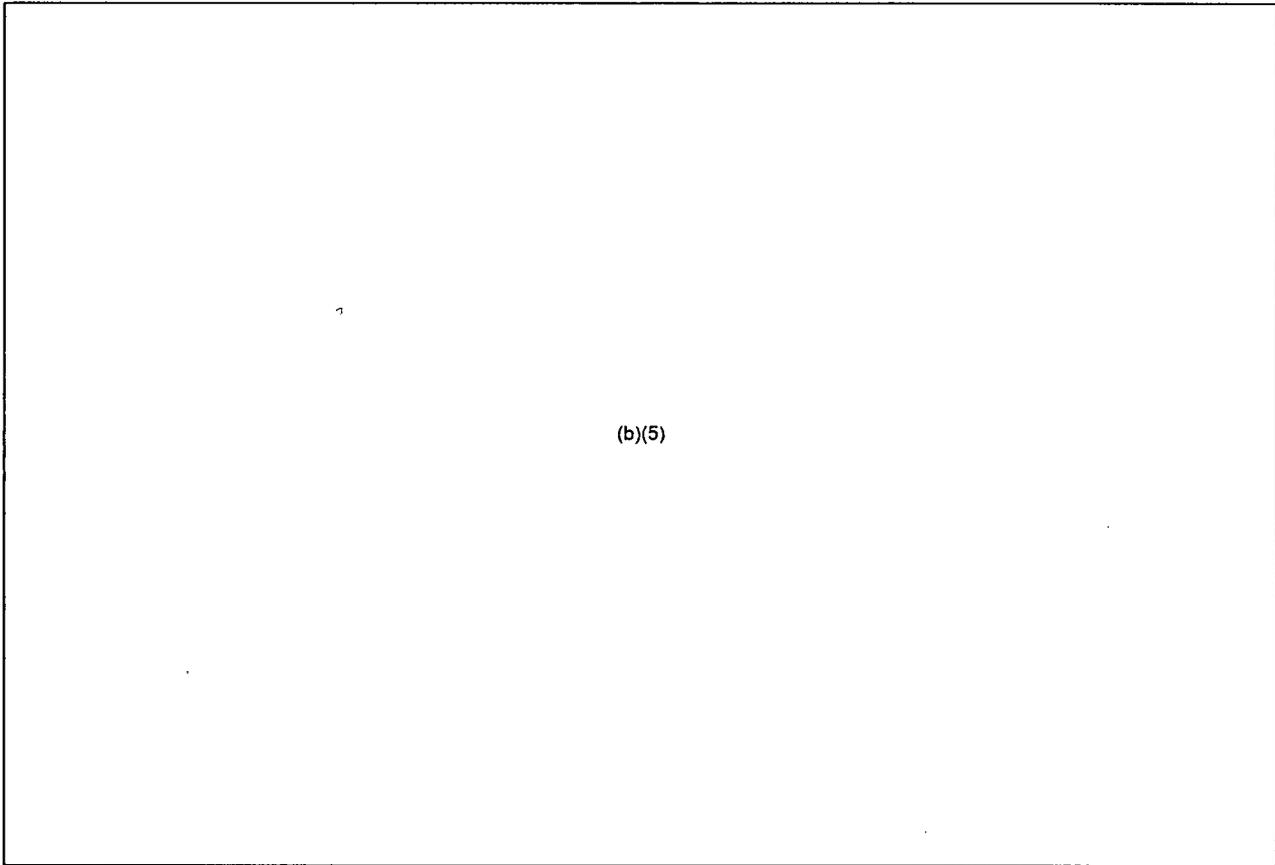
Att1-1

71111.08

| | | | | | |
|------|-----------------------|---|----|-----|-----|
| None | 11/09/09 CN 09-026 | IP 71111.08 has been revised based on the 2009 ROP Realignment (added 12 hours to the resource estimate for BWR inspections) and to address feedback form 71111.08-1373 (editorial corrections) and 71111.08-1386 (clarification of sample requirements). | No | N/A | N/A |
|------|-----------------------|---|----|-----|-----|

Ex 5
Predec
+
3rd/10

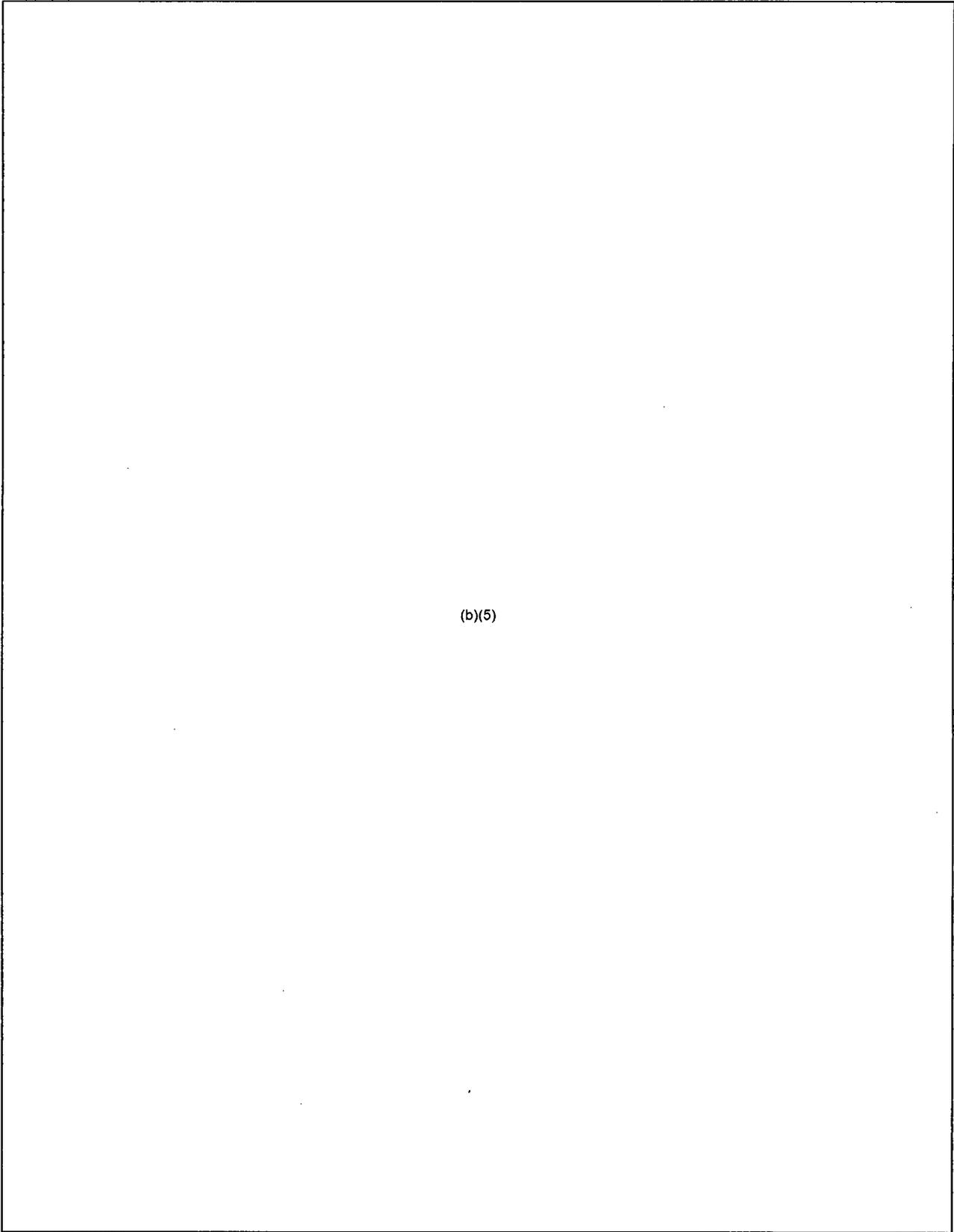
FOR: The Commissioners
FROM: Brian W. Sheron, Director
Office of Nuclear Regulatory Research
SUBJECT: STATUS OF THE REGULATORY GUIDE UPDATE PROGRAM



(b)(5)

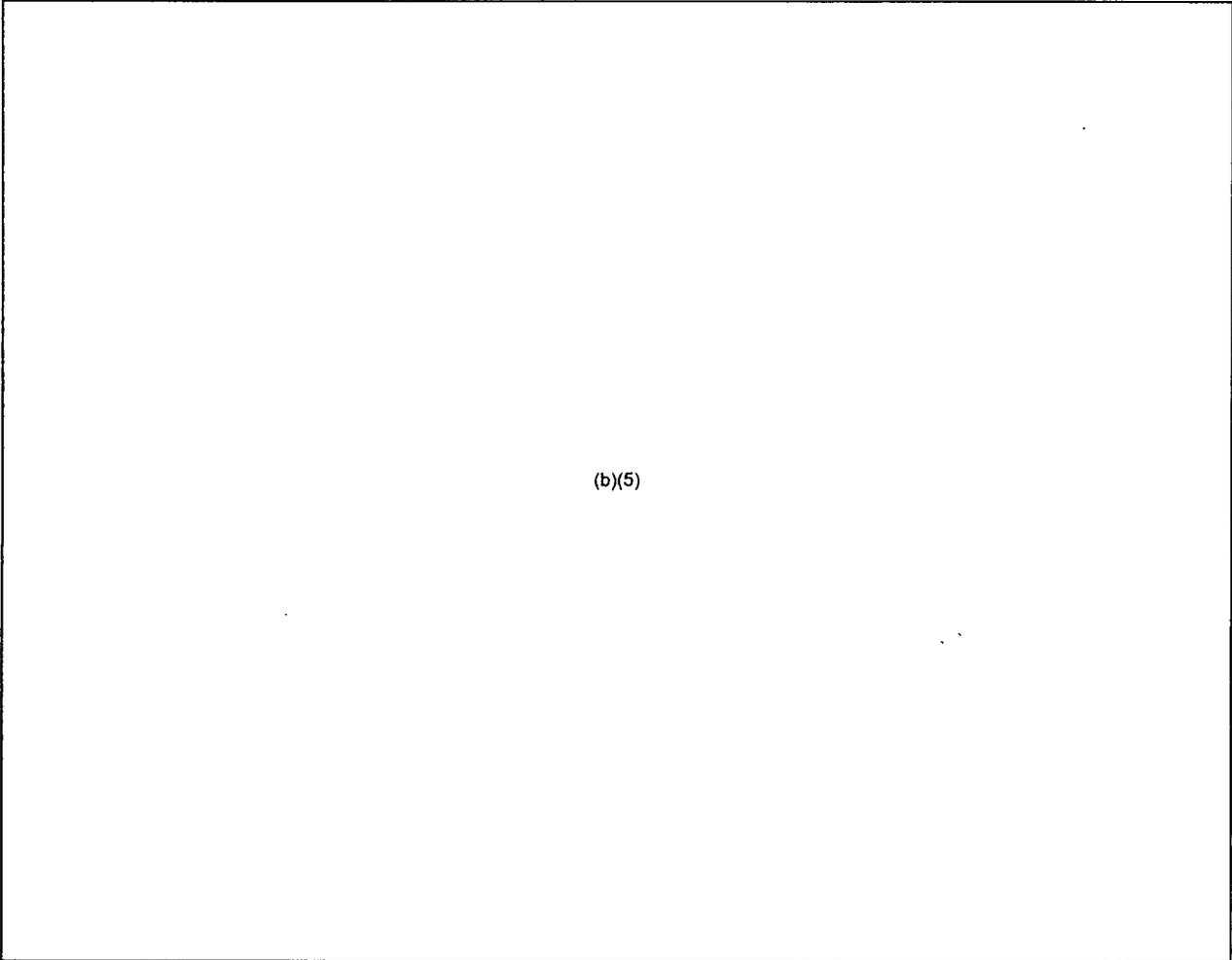
CONTACT: R. A. Jervy, RES/DE
301-251-7404

(b)(5)



(b)(5)

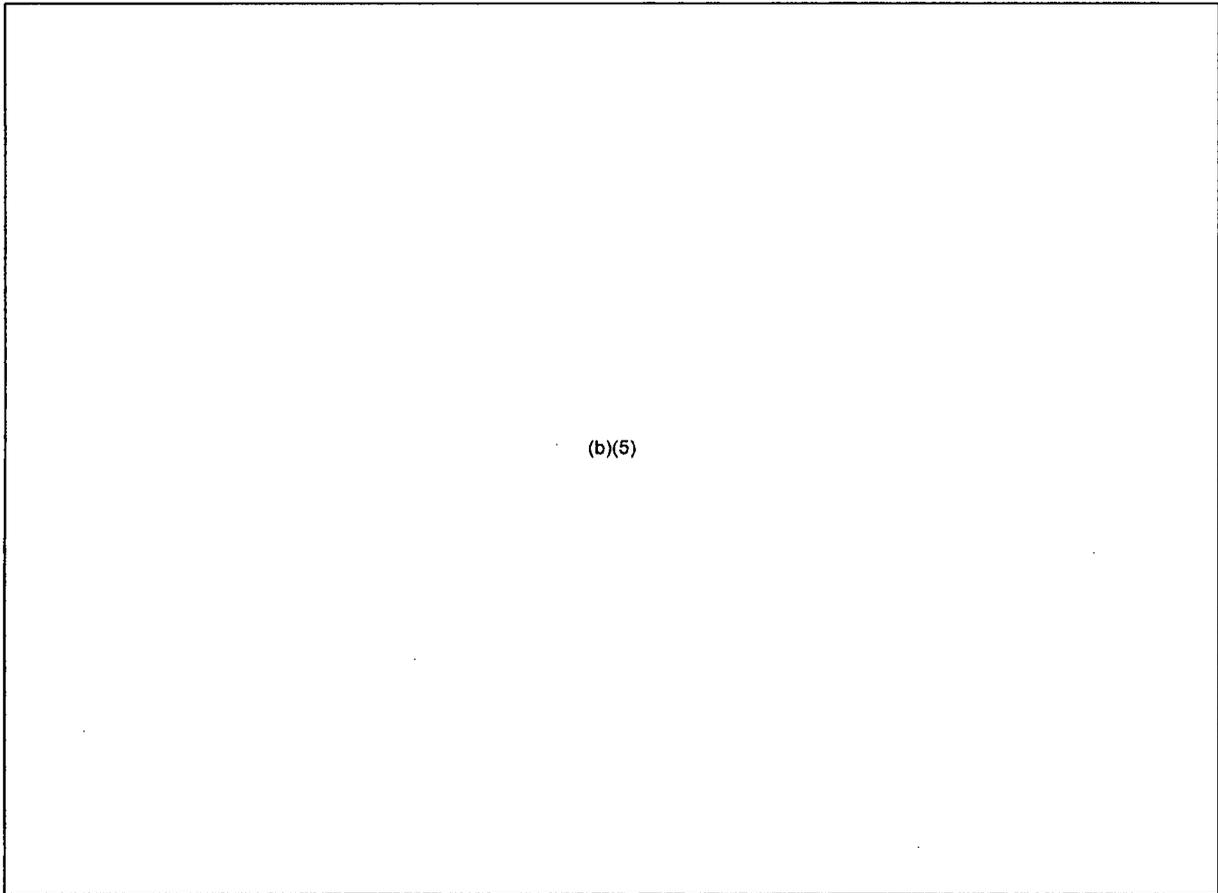
(b)(5)



(b)(5)

Brian W. Sheron, Director
Office of Nuclear Regulatory Research

RESOURCES:



Brian W. Sheron, Director
Office of Nuclear Regulatory Research

ADAMS Accession No.: ML103430552

WITS200800100/EDATS: SECY-

| OFFICE | RES/DE/RGDB | RES/DE/RGDB | RES | TECH EDITOR | FSME | NRR |
|--------|---|--|----------|--|--|--|
| NAME | R. Jervey | T.H.Boyce | M. Case | J. Zabel (via email) | C. Miller (by S.Moore, via email) | E. Leeds (by T.Blount, via email) |
| DATE | 2/7/2011 | 3/ /11 | 1/10/11 | 01/26/2011 | 2/23/11 | 2/24/11 |
| OFFICE | NRO | NSIR | NMSS | CFO | OGC | D: RES |
| NAME | M. Johnson (by D.Matthews, via email) | J. Wiggins (by M.Evans, via email) | C. Haney | J. Dyer (by G.Peterson, via email) | G. Mizuno (via email) | B. Sheron |
| DATE | 2/17/11 | 2/28/11 | | 2/25/11 | 3/7/11 | |

OFFICIAL RECORD COPY

From: Dyer, Jim
To: Givvines, Mary
Cc: Leeds, Eric; Grobe, Jack; Le, Hong
Subject: RE: FY2012 License Renewal Applications
Date: Tuesday, March 15, 2011 11:01:33 AM

(b)(5)

From: Givvines, Mary
Sent: Tuesday, March 15, 2011 9:57 AM
To: Dyer, Jim
Cc: Leeds, Eric; Grobe, Jack; Le, Hong
Subject: RE: FY2012 License Renewal Applications

Good morning Jim,

(b)(5)

Mary

From: Dyer, Jim
Sent: Monday, March 14, 2011 3:06 PM
To: Givvines, Mary
Cc: Leeds, Eric; Grobe, Jack
Subject: RE: FY2012 License Renewal Applications

(b)(5)

From: Givvines, Mary
Sent: Monday, March 14, 2011 12:46 PM
To: Dyer, Jim
Cc: Leeds, Eric; Grobe, Jack
Subject: FW: FY2012 License Renewal Applications

Hi Jim,

(b)(5)

Hope this helps and let us know if you need anything else.

From: Le, Hong
Sent: Monday, March 14, 2011 12:26 PM
To: Leeds, Eric; Givvines, Mary
Cc: Galloway, Melanie; Susco, Jeremy; Nguyen, Caroline; Newell, Karenina

AS/83

Subject: FY2012 License Renewal Applications

Eric,

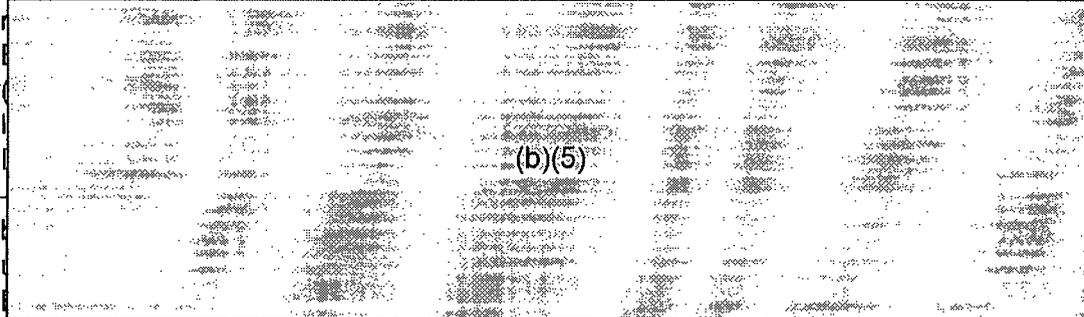
(b)(5)

Hong
415-2294

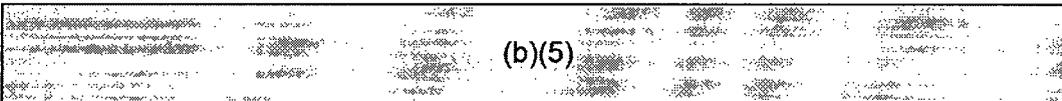
From: Coyne, Kevin
To: Gibson, Kathy
Cc: Flory, Shirley; Sheron, Brian; Uhle, Jennifer; Scott, Michael; Santiago, Patricia; Hudson, Daniel; Stutzke, Martin; Coe, Doug
Subject: RE: SCHEDULING NOTE FOR LEVEL 3 PRA AND SOARCA COMMISSION MEETING
Date: Tuesday, March 15, 2011 11:03:00 AM

Kathy –

The objective is to provide a short briefing to Brian and/or Jennifer on the scheduling



As some additional background, I spoke with Jim Anderson, and the idea is to



-Kevin

From: Gibson, Kathy
Sent: Tuesday, March 15, 2011 10:43 AM
To: Flory, Shirley; Sheron, Brian; Uhle, Jennifer; Scott, Michael; Coyne, Kevin; Santiago, Patricia; Hudson, Daniel
Subject: RE: SCHEDULING NOTE FOR LEVEL 3 PRA AND SOARCA COMMISSION MEETING

What is this for? I thought we covered this after the 8:45 this morning? In any case, I am not available, I have interviews all afternoon, and Mike has budget meetings.

<< OLE Object: Picture (Device Independent Bitmap) >>

<< File: Kathy Halvey Gibson.vcf >>

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

From: Flory, Shirley
Sent: Tuesday, March 15, 2011 10:03 AM
To: Sheron, Brian; Uhle, Jennifer; Gibson, Kathy; Scott, Michael; Coyne, Kevin; Santiago, Patricia; Hudson, Daniel
Subject: SCHEDULING NOTE FOR LEVEL 3 PRA AND SOARCA COMMISSION MEETING
When: Tuesday, March 15, 2011 3:30 PM-4:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: C- 6A1
Importance: High

Dan: Time changed to 3:30 to accommodate Pat.

AS/84

Thanks - Shirley

From: Coyne, Kevin
To: Coe, Doug; Correia, Richard
Cc: Drouin, Mary; Helton, Donald; Marksberry, Don; Demoss, Gary
Subject: FW: SRM
Date: Tuesday, March 15, 2011 11:19:00 AM
Attachments: SRM-11-0014.docx

Doug, Rich -

(b)(5)

documents.

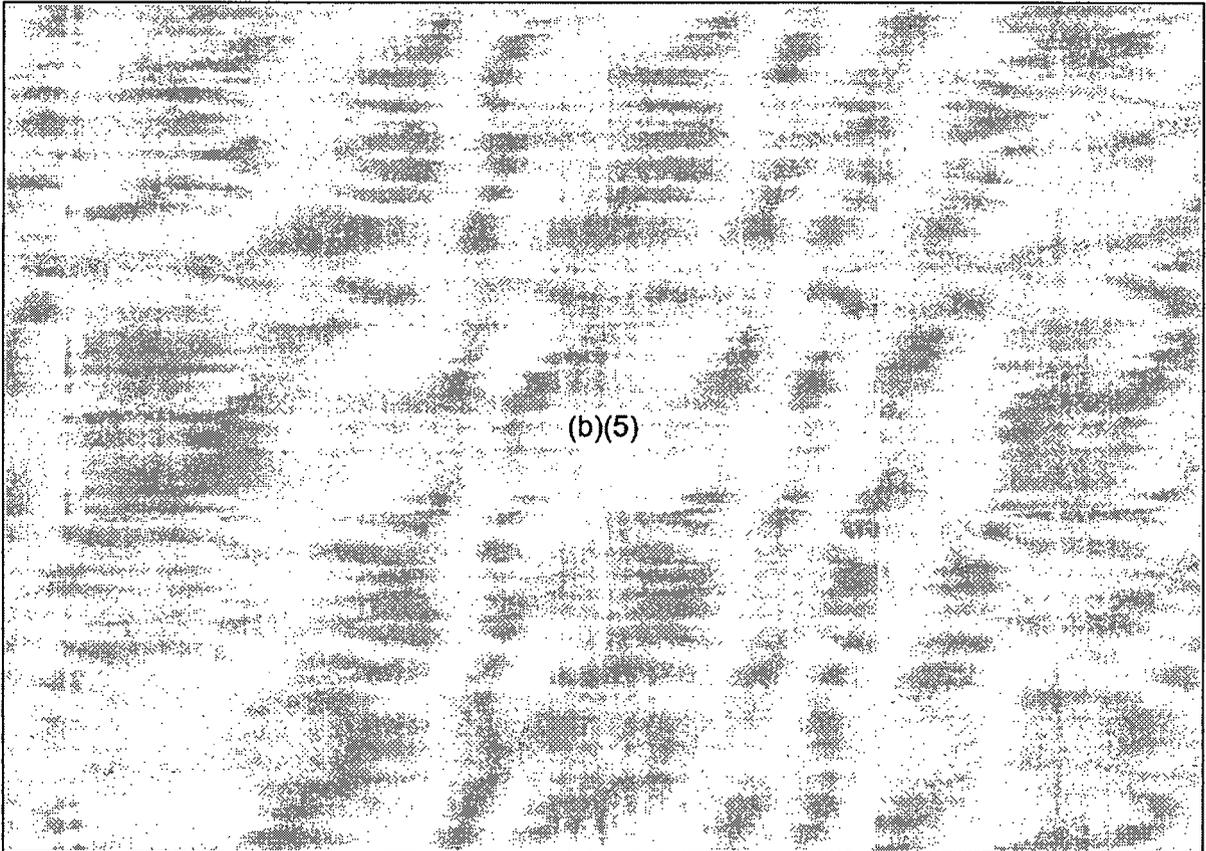
(b)(5)

Kevin

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

AS/85

March 15, 2011



cc: Chairman Jaczko
Commissioner Svinicki
Commissioner Apostolakis
Commissioner Magwood
Commissioner Ostendorff
OGC
CFO
OCA
OPA
Office Directors, Regions, ACRS, ASLBP (via E-Mail)
PDR

From: Coyne, Kevin
To: Kuritzky, Alan
Subject: (b)(5)
Date: Tuesday, March 15, 2011 11:22:00 AM
Attachments: Comparison of Direct Labor Rates for JCNs V6040 and V6059 at INI.pdf

(b)(5)

From: Leschek, Walter
Sent: Tuesday, March 15, 2011 11:15 AM
To: Curtis L Smith (b)(6)
Cc: Kuritzky, Alan; Coyne, Kevin; Wood, Jeffery
Subject: FW: (b)(5)

Dear Curtis

(b)(5)

Take care,

Walt

From: Curtis L Smith [mailto:Curtis.Smith@ini.gov]
Sent: Tuesday, March 15, 2011 10:43 AM
To: Leschek, Walter
Cc: Kuritzky, Alan; Wood, Jeffery; Coyne, Kevin
Subject: Re: (b)(5)

Walt,

(b)(5)

AS/86

(b)(5)

Curtis

"Leschek, Walter" <Walter.Leschek@nrc.gov>

03/15/2011 08:31 AM

To: Curtis L Smith <Curtis.Smith@inl.gov>, <curtis.lee.smith@gmail.com>

(b)(6)

cc "Kuritzky, Alan" <Alan.Kuritzky@nrc.gov>, "Coyne, Kevin" <Kevin.Coyne@nrc.gov>, "Wood, Jeffery" <Jeffery.Wood@nrc.gov>

Subject Why is the Direct Labor Rate for JCN V6040 so Much Lower than the Direct Labor Rate for JCN V6059

Dear Curtis

Under the current NRC Form 189s for JCN V6040 (Evaluate Methods to Improve SAPHIRE 8 Speed and Performance) and JCN V6059 (SAPHIRE 8 Code Maintenance and Quality Assurance Activities), you are listed as the Principal Investigator and Ted Wood is listed as Key Personnel.

(b)(5)

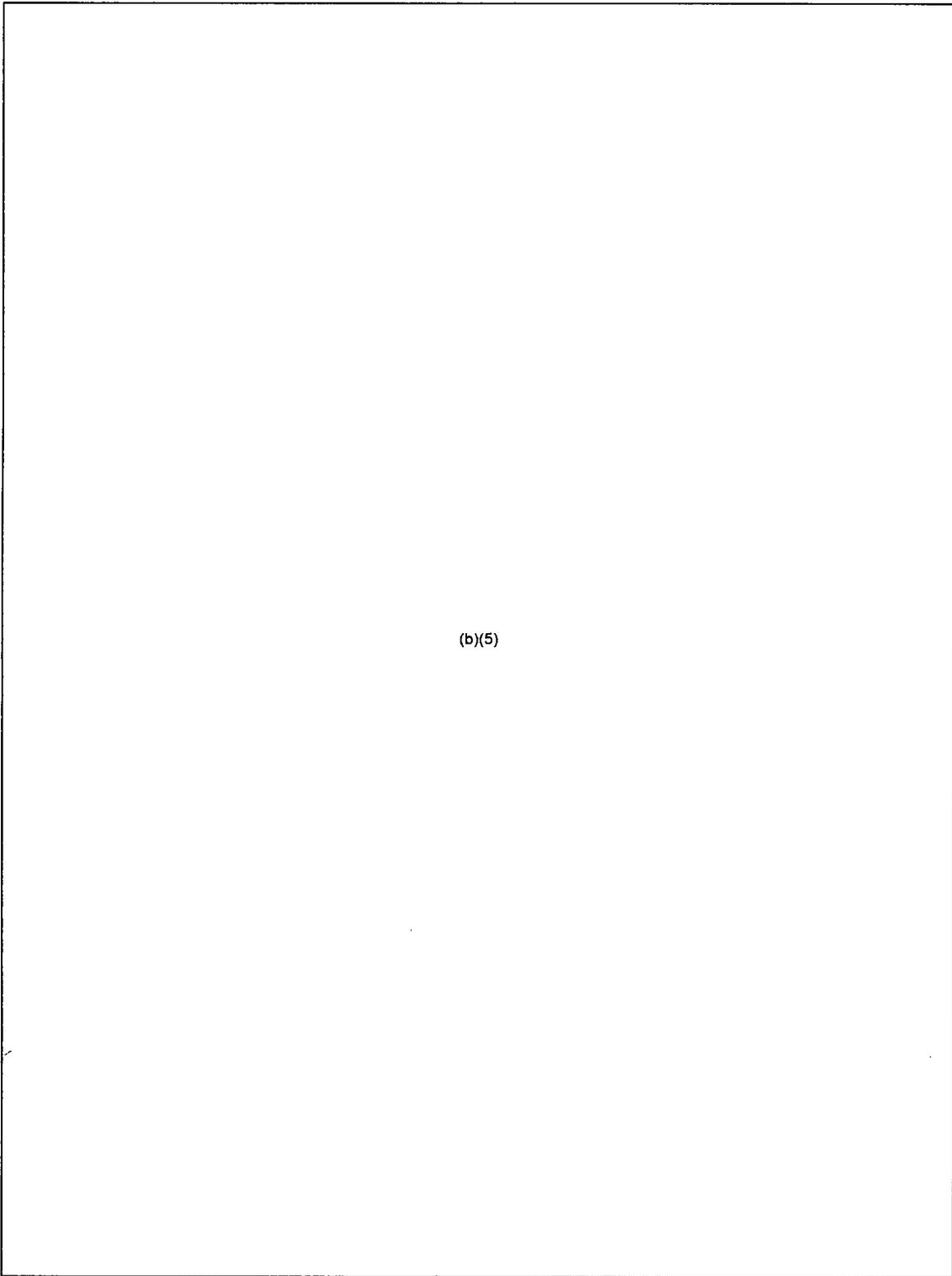
We need an answer to this question soon so that we can continue to process MOD document packages for JCN V6040 and V6059.

Take care,

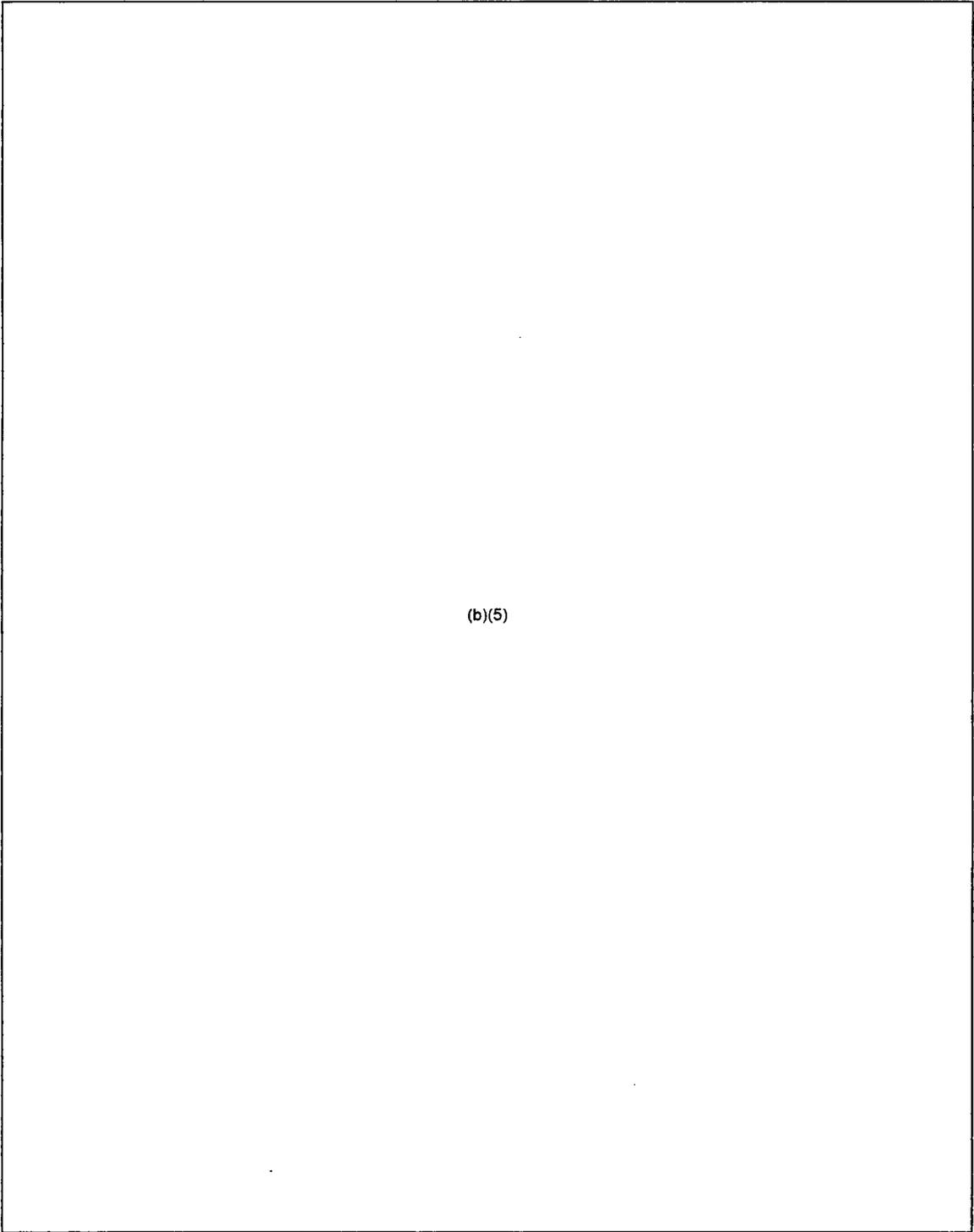
Walt

(b)(5)

(b)(5)



(b)(5)



(b)(5)

From: [Leschek, Walter](#)
To: [Curtis L Smith](#); curtis.lee.smith@gmail.com
Cc: [Kuritzky, Alan](#); [Coyne, Kevin](#); [Wood, Jeffery](#)
Subject: Thanks: Why is the Direct Labor Rate for JCN V6040 so Much Lower than the Direct Labor Rate for JCN V6059
Date: Tuesday, March 15, 2011 11:36:19 AM
Attachments: [Comparison of Direct Labor Rates for JCNs V6040 and V6059 at INL.pdf](#)

Dear Curtis

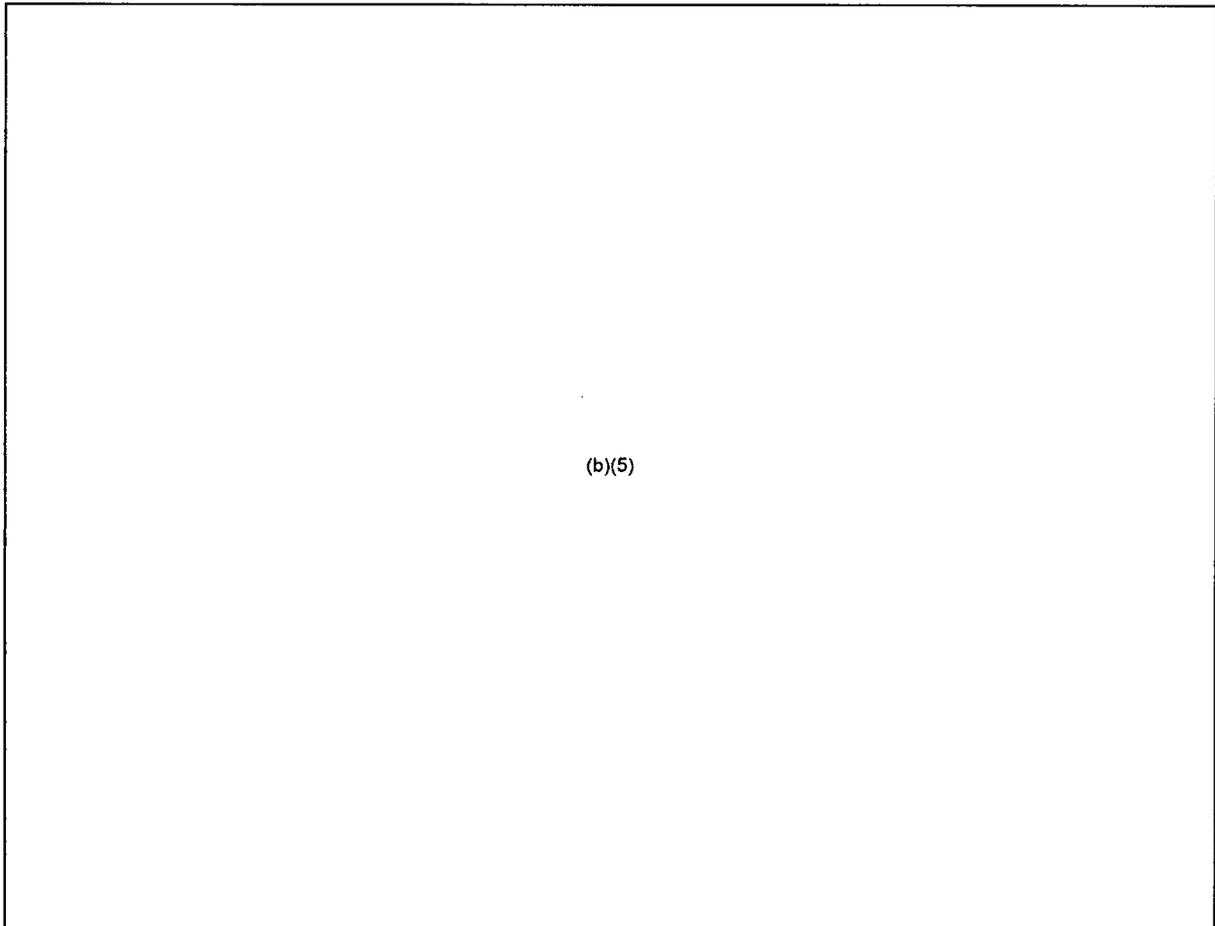
Thanks.

Take care,

Walt

From: Curtis L Smith [mailto:Curtis.Smith@inl.gov]
Sent: Tuesday, March 15, 2011 11:32 AM
To: Leschek, Walter
Cc: Kuritzky, Alan; Wood, Jeffery; Coyne, Kevin
Subject: Re: FW: Why is the Direct Labor Rate for JCN V6040 so Much Lower than the Direct Labor Rate for JCN V6059

Let me fix my note to be more clear.



(b)(5)

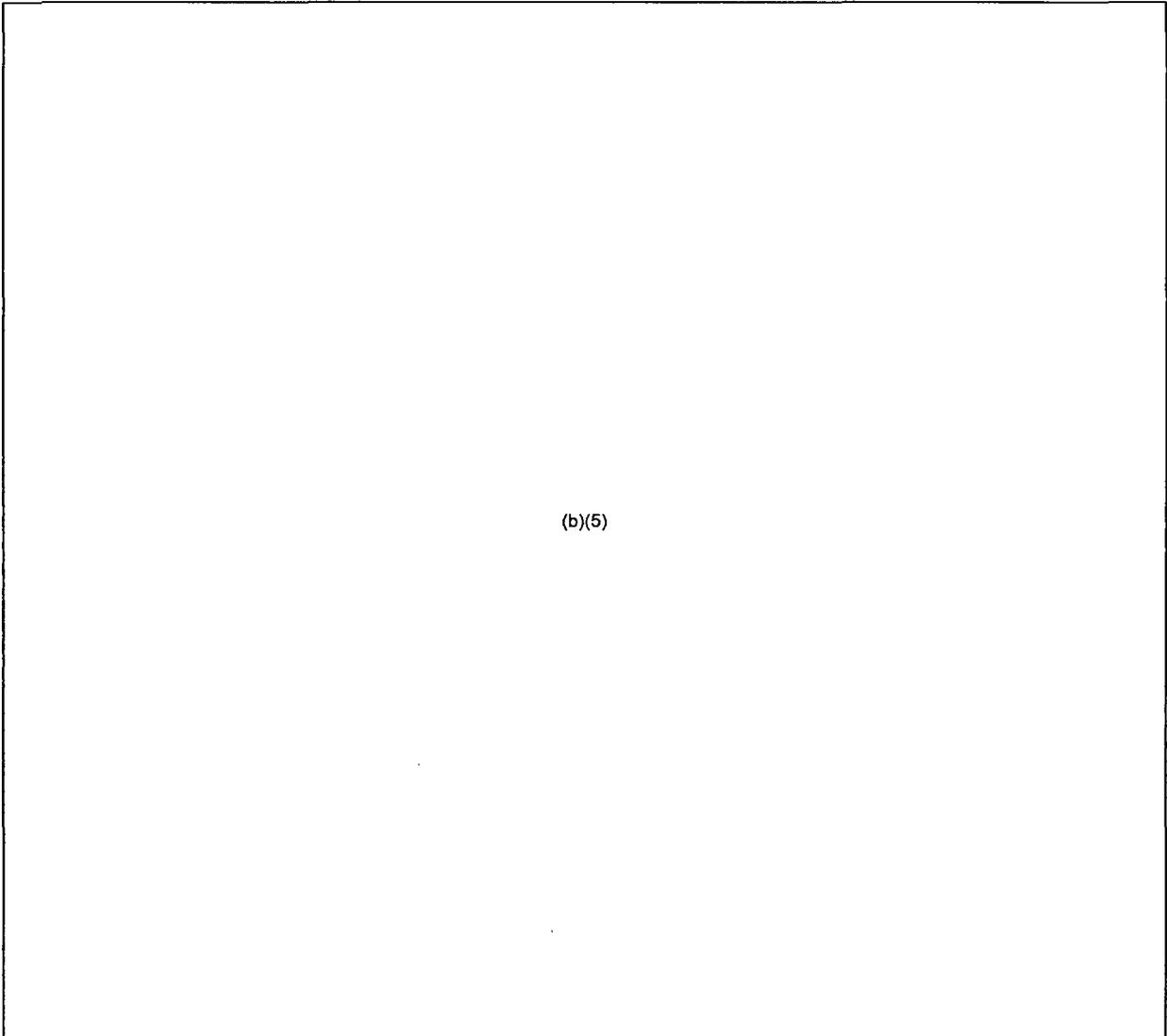
AS/87

From: Coyne, Kevin
To: Peters, Sean
Subject: FW: results of SFST budget alignment meeting and follow up actions
Date: Tuesday, March 15, 2011 11:37:00 AM
Attachments: 2-Pagers_SFST.xlsx
Importance: High

HFRB action --- PMDA is looking for input by tomorrow.

From: Stout, Kathleen
Sent: Tuesday, March 15, 2011 11:36 AM
To: Case, Michael; Richards, Stuart; Coyne, Kevin; Gibson, Kathy; Scott, Michael
Cc: Gavrilas, Mirela; Peters, Sean; Hudson, Daniel; Armstrong, Kenneth; Rini, Brett; Grancorvitz, Teresa; Spencer, Ruth
Subject: results of SFST budget alignment meeting and follow up actions
Importance: High

Following is a summary of NMSS's Spent Fuel Storage and Transportation budget alignment meeting and follow up actions for RES:



(b)(5)

AS/88

(b)(5)

Please let me know if you have questions. Thanks,

Kathleen

Kathleen Stout
RES/PMDA/FPMB
tel: 301-251-7941

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Stutzke, Martin

From: Stutzke, Martin
Sent: Tuesday, March 15, 2011 11:40 AM
To: Beasley, Benjamin
Subject: FW: draft responses to NBC
Attachments: NBC_questions.docx

Importance: High

Looks like RES/DE, et. al. have developed responses as well (see attached). Who's on first?!

Marty

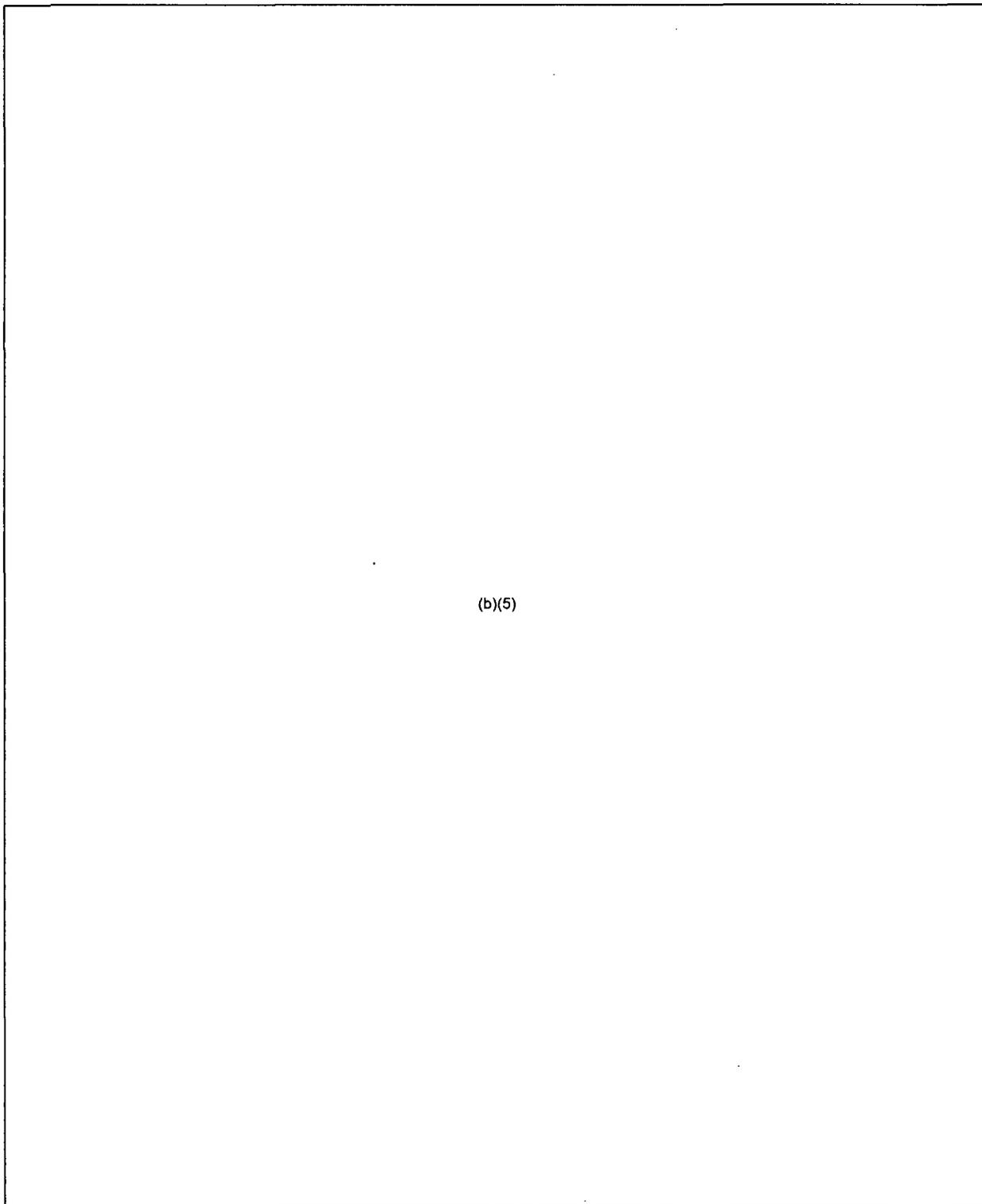
-----Original Message-----

From: Ake, Jon
Sent: Tuesday, March 15, 2011 11:09 AM
To: Stutzke, Martin; Munson, Clifford
Cc: Murphy, Andrew
Subject: draft responses to NBC

Marty, Cliff and Andy-

Here is my first pass at answers to these questions, please revise as you see fit, let me know if we need more, I don't know how to answer the question on timeline.....

I have these questions:



(b)(5)

(b)(5),(b)(6)

From: Leschek, Walter
To: Kuritzky, Alan
Cc: Covne, Kevin; Wood, Jeffery
Subject: For JCN V6040 and JCN V6059, Supplemental Cost Info Provided by INL Will Be Use to Prepare NRC Form 554A
Date: Tuesday, March 15, 2011 11:59:27 AM
Attachments: Supplemental Cost Info for V6059.xlsx
Supplemental Cost Info for V6040.xlsx

Dear Alan

For [redacted] (b)(5)

[redacted] (b)(5)

[redacted] (b)(5)

I took both concurrence packages from your office and will revise the IGCE, and answer your SOW-background question, for each when I return to work tomorrow.

[redacted] (b)(6)

Take care,

Walt

AS/90

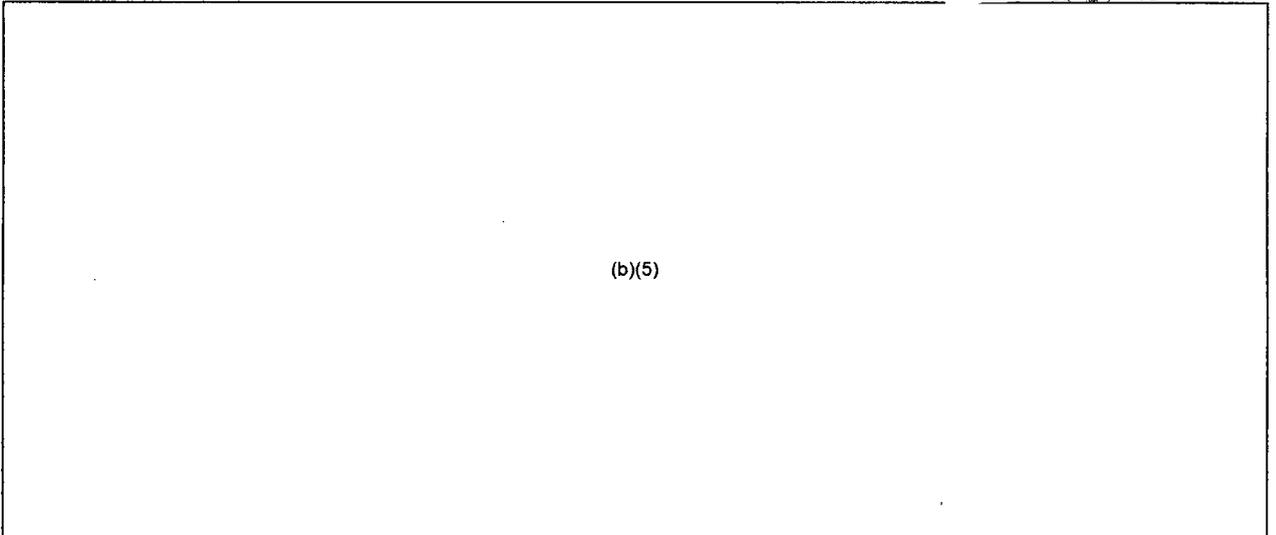
(b)(5)

(b)(5)

From: [Gavrilas, Mirela](#)
To: [Waters, Michael](#)
Cc: [Richards, Stuart](#); [Case, Michael](#); [Scott, Michael](#)
Subject: FW: SFST 2-pager (no edits from meeting, but should have been sent out before the meeting)
Date: Tuesday, March 15, 2011 12:36:30 PM
Attachments: [2-Pagers_SFST.xlsx](#)

Mike,

What do you think about the following suggested language under item 45, instead of the notes that are currently there?



Thanks,
M.

From: Berry, Rollie
Sent: Tuesday, March 15, 2011 10:50 AM
To: Augustus, Reginald; Green, Jamie; Harvey, Sue; Ma, May; Nelson-Wilson, Carlyeamaryllis; Shnayder, Yana; Grancorvitz, Teresa; Spencer, Ruth; Stout, Kathleen; Zilka, Kathleen; Hunter, James; McGill, Clinton; Bayliff, Shirley; Holt, BJ; Gardin, Kathy; Nute-Blackshear, Lora; Lockhart, Michelle; Rule, David; Nick, Joseph; Vassos, John; Butler, Rodney; Ford, William; Blond, Tamoria; Weaver, Doug; Benner, Eric; Rahimi, Meraj; Mohseni, Aby; Davis, Jack; Kokajko, Lawrence; Kuk, Jennifer; Lorson, Raymond; Munday, Joel; Boland, Anne; Caniano, Roy; HQ-EBB-01B15-25p-VTC; Woods, Carolyn; Cain, Chuck; Duncan, Eric; Hills, David; Lara, Julio; Lipa, Christine; Loudon, Patrick; OBrien, Kenneth; Reynolds, Steven; Shear, Gary; Sotiropoulos, Dina; West, Steven; Coe, Doug; Coyne, Kevin; Gibson, Kathy; Scott, Michael; Armstrong, Kenneth; Hudson, Daniel; Case, Michael; Richards, Stuart; Rini, Brett; Waters, Michael; Peters, Sean; Gavrilas, Mirela; Curran, Bridget; Diaz-Toro, Diana; Lois, Erasmia; Correia, Richard; Holahan, Patricia; McDermott, Brian; Resner, Mark; VandenBerghe, John; Dudek, Michael; Abraham, Susan; Caldwell, Robert; Rheau, Cynthia; Layton, Michael; Morris, Scott; Westreich, Barry; Brown, Cris; Riffle, Deani; Shropshire, Alan; Williamson, Linda
Subject: SFST 2-pager (no edits from meeting, but should have been sent out before the meeting)

Attached is the 2-pager I should have sent out before the meeting. This will change, but I wanted everyone to start from a common point. If you had an action to describe work in more detail or another action please get back to both myself as well as Jennifer Kuk (Jennifer.Kuk@nrc.gov). We are working towards Thursday the 17th as the date for this to

AS/91

be complete.

Best,
Rollie

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

From: Santiago, Patricia
To: Coe, Doug; Gibson, Kathy; Hudson, Daniel; Scott, Michael; Coyne, Kevin; Stutzke, Martin
Cc: Tinkler, Charles; Armstrong, Kenneth; Ghosh, Tina
Subject: RE: Commission Briefing Scheduling Note/Seating
Date: Tuesday, March 15, 2011 12:38:01 PM

(b)(5)

(b)(5) of

Thanks

From: Coe, Doug
Sent: Tuesday, March 15, 2011 12:26 PM
To: Gibson, Kathy; Santiago, Patricia; Hudson, Daniel; Scott, Michael; Coyne, Kevin; Stutzke, Martin
Subject: RE: Commission Briefing Scheduling Note/Seating

(b)(5)

From: Gibson, Kathy
Sent: Tuesday, March 15, 2011 11:51 AM
To: Santiago, Patricia; Hudson, Daniel; Coe, Doug; Scott, Michael; Coyne, Kevin; Stutzke, Martin
Subject: RE: Commission Briefing Scheduling Note/Seating

(b)(5)



From: Santiago, Patricia
Sent: Tuesday, March 15, 2011 11:47 AM
To: Hudson, Daniel; Gibson, Kathy; Coe, Doug; Scott, Michael; Coyne, Kevin; Stutzke, Martin
Subject: Commission Briefing Scheduling Note/Seating

Dan and I just met to review based on comments.

AS/92

Attached is the latest note for today's discussion.

(b)(5)

(b)(5)

Time for DSA is now 15 min and DRA is 25 minutes. Where do we want Charlie and Marty to sit? At the table or behind the speakers.

(b)(5)

Thanks,

Pat

Patricia A. Santiago
Chief, Special Projects Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research
Phone- 301-251-7982
Fax- 301-251-7426
Patricia.Santiago@nrc.gov

From: [Leeds, Eric](#)
To: [Schwarz, Sherry](#)
Subject: FW: Next steps for your ET/LT
Date: Tuesday, March 15, 2011 12:59:00 PM
Attachments: [NRR Executive Team Alignment Proposal.xlsx](#)
[NRR Exec Team Alignment.docx](#)

Please print a copy of the email and the attachments for me. Thanks!

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

From: Sara Rohling [mailto:SRohling@suntiva.com]
Sent: Tuesday, March 15, 2011 9:48 AM
To: Leeds, Eric
Cc: Adelstein, Patricia; Gerke, Laura
Subject: RE: Next steps for your ET/LT

Eric – I am so glad to hear the conference was a great success – such a huge undertaking requires MUCH planning and organization. I imagine what’s happening in Japan is causing some major ripples in NRC – unbelievable the scale and complexity of what’s happening over there. What a tragedy.

(b)(5)

Let me know what you think – I’m happy to come over and discuss in person with you, answer any questions that you have. If you do decide to move forward, Patricia and I would work to set up a task order on our existing NRC contract.

And just so you know, I would love to do this work with you and your team!

Hope you are keeping well and taking good care of yourself.

AS/93

Sara

From: Leeds, Eric [mailto:Eric.Leeds@nrc.gov]
Sent: Thursday, March 10, 2011 3:55 PM
To: Sara Rohling
Cc: Adelstein, Patricia; Gerke, Laura
Subject: RE: Next steps for your ET/LT

Thanks, Sara! Looking forward to your ideas. The conference was a hit – I'm very pleased.

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

From: Sara Rohling [mailto:SRohling@suntiva.com]
Sent: Tuesday, March 08, 2011 10:45 AM
To: Leeds, Eric
Cc: Adelstein, Patricia
Subject: Next steps for your ET/LT

Eric,

Hope the conference you are leading this week is a huge success.

Any development/improvement work with your leadership team would be considered "organization development" (OD). Patricia Adelstein is the NRC OD rep so I am cc ing her on this email. I will pull together some thoughts on next steps that you, Patricia and I can discuss at our next meeting. If we were to move forward the work would be paid for by NRR through Patricia's OD contract.

Take good care of yourself. Sara

Sara Keenan Rohling, Director
SUNTIVA
7600 Leesburg Pike Ste 440E L Falls Church, VA 22043
(703) 462-8470 Main (b)(6) Cell (703) 462-8477 Fax
www.suntiva.com

Great Minds. Great Hearts

(b)(5)

(b)(5)

(b)(5)

(b)(5)

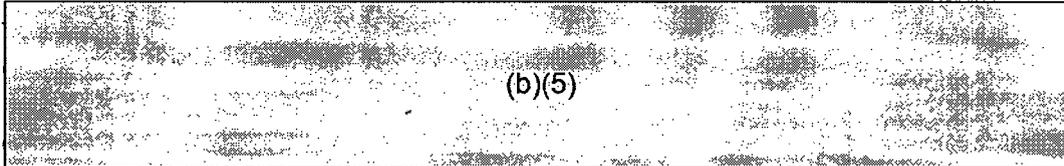
From: Givvines, Mary
To: Dyer, Jim
Cc: Wrona, David; Susco, Jeremy; Holian, Brian; Galloway, Melanie; Leeds, Eric; Grobe, Jack; Roger, Bruce
Subject: RE: FY2012 License Renewal Applications
Date: Tuesday, March 15, 2011 1:01:43 PM

fyi

From: Galloway, Melanie
Sent: Tuesday, March 15, 2011 11:42 AM
To: Givvines, Mary
Cc: Wrona, David; Susco, Jeremy; Holian, Brian
Subject: RE: FY2012 License Renewal Applications

Mary,

The Indian Point hearing is scheduled for Jan. 2012 and there may be appeals after that.

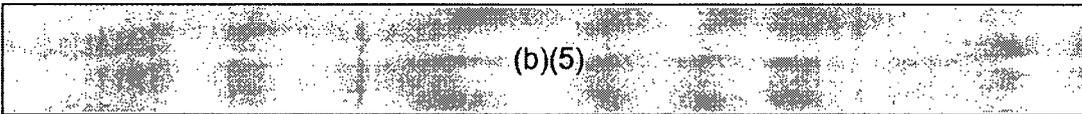


Melanie

From: Givvines, Mary
Sent: Tuesday, March 15, 2011 11:03 AM
To: Galloway, Melanie
Subject: Fw: FY2012 License Renewal Applications

Fyi

From: Dyer, Jim
To: Givvines, Mary
Cc: Leeds, Eric; Grobe, Jack; Le, Hong
Sent: Tue Mar 15 11:01:27 2011
Subject: RE: FY2012 License Renewal Applications



From: Givvines, Mary
Sent: Tuesday, March 15, 2011 9:57 AM
To: Dyer, Jim
Cc: Leeds, Eric; Grobe, Jack; Le, Hong
Subject: RE: FY2012 License Renewal Applications

Good morning Jim,

AS/94

(b)(5)

Mary

From: Dyer, Jim
Sent: Monday, March 14, 2011 3:06 PM
To: Givvines, Mary
Cc: Leeds, Eric; Grobe, Jack
Subject: RE: FY2012 License Renewal Applications

(b)(5)

From: Givvines, Mary
Sent: Monday, March 14, 2011 12:46 PM
To: Dyer, Jim
Cc: Leeds, Eric; Grobe, Jack
Subject: FW: FY2012 License Renewal Applications

Hi Jim,

(b)(5)

Hope this helps and let us know if you need anything else.

From: Le, Hong
Sent: Monday, March 14, 2011 12:26 PM
To: Leeds, Eric; Givvines, Mary
Cc: Galloway, Melanie; Susco, Jeremy; Nguyen, Caroline; Newell, Karenina
Subject: FY2012 License Renewal Applications

Eric,

(b)(5)

Hong
415-2294

From: Coyne, Kevin
To: Zaki, Tarek
Subject: RE: NRO Mtg -- get ready for action
Date: Tuesday, March 15, 2011 1:22:00 PM

Not a problem – where do you want to meet?

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 1:17 PM
To: Coyne, Kevin; Gavrilas, Mirela
Subject: FW: NRO Mtg -- get ready for action
Importance: High

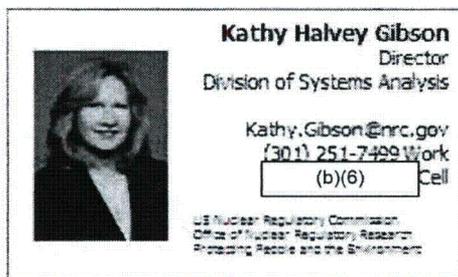
Kevin/Mirela;

Mike is in another budget meeting with NRR and he asked me to coordinate with you. We owe NRO feedback by COB today. Can we get together sometime this afternoon to discuss, is 2:30pm OK?

Thanks,
Tarek

From: Gibson, Kathy
Sent: Tuesday, March 15, 2011 12:59 PM
To: Scott, Michael; Zaki, Tarek
Subject: FW: NRO Mtg -- get ready for action
Importance: High

(b)(5)



From: Armstrong, Kenneth
Sent: Tuesday, March 15, 2011 12:42 PM
To: Elkins, Scott; Hoxie, Chris; Zaki, Tarek; Lee, Richard; Bush-Goddard, Stephanie
Cc: Gibson, Kathy; Scott, Michael; Flanagan, Michelle; Lewis, Doris
Subject: FW: NRO Mtg -- get ready for action
Importance: High

I know many of you are out of the office today, but just wanted to pass this along in case you have any input.

AS/95

From: Spencer, Ruth
Sent: Tuesday, March 15, 2011 12:06 PM
To: Armstrong, Kenneth; Hudson, Daniel; Rivera-Lugo, Richard
Cc: Rini, Brett; Stout, Kathleen; Grancorvitz, Teresa; Scott, Michael
Subject: NRO Mtg -- get ready for action
Importance: High

(b)(5)

I'm still over at WFN for an NRR meeting this afternoon, but I'll be back later if you want to discuss.

Thanks, Ruth

(b)(5)

(b)(5)

(b)(5)

Attachment Kathy Halvey Gibson.vcf (5196 Bytes) cannot be converted to PDF format.

From: Stout, Kathleen
To: Peters, Sean; Coyne, Kevin
Cc: Hudson, Daniel; Grancorvitz, Teresa; Spencer, Ruth
Subject: RE: results of SFST budget alignment meeting and follow up actions
Date: Tuesday, March 15, 2011 1:38:01 PM

Thanks!

Kathleen Stout
RES/PMDA/FPMB
tel: 301-251-7941

From: Peters, Sean
Sent: Tuesday, March 15, 2011 1:38 PM
To: Stout, Kathleen; Coyne, Kevin
Cc: Hudson, Daniel; Grancorvitz, Teresa; Spencer, Ruth
Subject: RE: results of SFST budget alignment meeting and follow up actions

Kathleen,

(b)(5)

Thanks!

Sean

From: Stout, Kathleen
Sent: Tuesday, March 15, 2011 11:36 AM
To: Case, Michael; Richards, Stuart; Coyne, Kevin; Gibson, Kathy; Scott, Michael
Cc: Gavrilas, Mirela; Peters, Sean; Hudson, Daniel; Armstrong, Kenneth; Rini, Brett; Grancorvitz, Teresa; Spencer, Ruth
Subject: results of SFST budget alignment meeting and follow up actions
Importance: High

Following is a summary of NMSS's Spent Fuel Storage and Transportation budget alignment meeting and follow up actions for RES:

(b)(5)

AS/95

From: [Hudson, Daniel](#)
To: [Peters, Sean](#)
Cc: [Covne, Kevin](#)
Subject: FW: results of SFST budget alignment meeting and follow up actions
Date: Tuesday, March 15, 2011 1:39:08 PM

Sean,

I should have included you and Kevin on the below e-mail. I did not realize you were included in the original message.

Thanks for confirming!

Best,
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

From: Hudson, Daniel
Sent: Tuesday, March 15, 2011 1:35 PM
To: Stout, Kathleen; Rivera-Lugo, Richard; Armstrong, Kenneth; Ibarra, Jose
Cc: Rini, Brett
Subject: RE: results of SFST budget alignment meeting and follow up actions

All,

(b)(5)

Please let me know if you have any questions or if you need anything else from DRA.

Thanks!
Dan

Daniel W. Hudson
Technical Assistant
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Division of Risk Analysis

AS/97

Daniel.Hudson@nrc.gov
301-251-7919

From: Stout, Kathleen
Sent: Tuesday, March 15, 2011 12:31 PM
To: Rivera-Lugo, Richard; Armstrong, Kenneth; Ibarra, Jose
Cc: Hudson, Daniel; Rini, Brett
Subject: FW: results of SFST budget alignment meeting and follow up actions
Importance: High

(b)(5)

Kathleen

Kathleen Stout
RES/PMDA/FPMB
tel: 301-251-7941

From: Armstrong, Kenneth
Sent: Tuesday, March 15, 2011 12:18 PM
To: Stout, Kathleen
Subject: FW: results of SFST budget alignment meeting and follow up actions
Importance: High

FYI

From: Armstrong, Kenneth
Sent: Tuesday, March 15, 2011 12:16 PM
To: Rivera-Lugo, Richard; Ibarra, Jose
Cc: Hudson, Daniel; Rini, Brett
Subject: FW: results of SFST budget alignment meeting and follow up actions
Importance: High

FYI, Richard Lee is away from the office right now, but I believe this is the question at hand. (b)(5)

From: Armstrong, Kenneth
Sent: Tuesday, March 15, 2011 12:12 PM
To: Lee, Richard
Cc: Scott, Michael; Flanagan, Michelle
Subject: FW: results of SFST budget alignment meeting and follow up actions
Importance: High

Richard,

(b)(5)

(b)(5)

Thanks,
Kenneth

From: Gibson, Kathy
Sent: Tuesday, March 15, 2011 11:43 AM
To: Armstrong, Kenneth
Cc: Scott, Michael; Gavrilas, Mirela
Subject: FW: results of SFST budget alignment meeting and follow up actions
Importance: High

Ken,
Are you working this with DRA?

Thanks,

Kathy



Kathy Halvey Gibson
Director
Division of Systems Analysis

Kathy.Gibson@nrc.gov
(301) 251-7499 Work
(b)(6) Cell

US Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Protecting People and the Environment

From: Stout, Kathleen

Sent: Tuesday, March 15, 2011 11:36 AM

To: Case, Michael; Richards, Stuart; Coyne, Kevin; Gibson, Kathy; Scott, Michael

Cc: Gavrilas, Mirela; Peters, Sean; Hudson, Daniel; Armstrong, Kenneth; Rini, Brett; Grancorvitz, Teresa; Spencer, Ruth

Subject: results of SFST budget alignment meeting and follow up actions

Importance: High

Following is a summary of NMSS's Spent Fuel Storage and Transportation budget alignment meeting and follow up actions for RES:



From: Coe, Doug
To: Salley, MarkHenry; Wucher, John; Coyne, Kevin
Cc: Isakovic, Nadja; Stroup, David; Woods, Hugh; Hill, Kendra
Subject: RE: Purchase Request for David Stroup
Date: Tuesday, March 15, 2011 1:42:57 PM

(b)(5)

From: Salley, MarkHenry
Sent: Tuesday, March 15, 2011 1:32 PM
To: Coe, Doug; Wucher, John; Coyne, Kevin
Cc: Isakovic, Nadja; Stroup, David; Woods, Hugh; Hill, Kendra
Subject: RE: Purchase Request for David Stroup

Doug,

(b)(5)

MHS

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

From: Coe, Doug
Sent: Tuesday, March 15, 2011 1:29 PM
To: Wucher, John; Coyne, Kevin
Cc: Isakovic, Nadja; Stroup, David; Salley, MarkHenry
Subject: RE: Purchase Request for David Stroup

(b)(5)

From: Wucher, John
Sent: Tuesday, March 15, 2011 9:32 AM
To: Coe, Doug
Cc: Isakovic, Nadja; Stroup, David; Wucher, John
Subject: RE: Purchase Request for David Stroup

Please approve via "Reply All".

(b)(5)

John Wucher
IT Specialist
(301) 251-7960

AS/98-

Mail stop: 06D20M
CSB 06D03

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

From: Research IT Support Site [mailto:JAW8@nrc.gov]

Sent: Tuesday, March 15, 2011 9:06 AM

To: White, Nathan

Cc: Lam, Dennis; Wucher, John; Isakovic, Nadja; Wucher, John; Frampton, Julie; Wucher, John;
Wucher, John; Stroup, David; Wucher, John; Wucher, John

Subject: Purchase Request for David Stroup

Attn: Nathan White: We have received the following purchase request.

Nathan,

Please go to http://irm12.nrc.gov/RES/RESIT/DIVISION_ITC_LOGIN.cfm to approve this request.

(b)(5)

From: [RESDEMLSR Resource](#)
To: [Case, Michael](#); [Hurd, Sapna](#); [Richards, Stuart](#)
Subject: FW: February 2011 Monthly Status Report for JCN V-6069
Date: Tuesday, March 15, 2011 2:00:59 PM
Attachments: [February 2011 Monthly Status Report for JCN V-6069.pdf](#)

From: Avci, Halil I.[SMTP:AVCI@ANL.GOV]
Sent: Tuesday, March 15, 2011 2:00:45 PM
To: Stevens, Gary
Cc: Anker, Beverly; Chopra, Omesh K.; Daly, Jill; RESDEMLSR Resource
Subject: February 2011 Monthly Status Report for JCN V-6069
Auto forwarded by a Rule

Dear Mr. Stevens,

The Monthly Status Report for JCN V-6069 for the period from January 24, 2011 through February 20, 2011, is attached. Please call Omesh Chopra (630-252-5117) or me if there are any questions or if you would like more information.

Halil Avci

Halil I. Avci, Ph.D.
Manager, Radiological Health Risk Section and
Environmental Health Risk Section
Environmental Science Division
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60439
Phone: (630) 252-6477
Fax: (630) 252-4624
E-mail: avci@anl.gov

AS/99

**Argonne National Laboratory Monthly Status Report for February 2011
Under JCN V-6069**

A. Identification and Financial Summary Information

| | | |
|---|---------------------------|--------------------------|
| <u>Contract/Agreement Number</u> | <u>JCN Number</u> | <u>Task Order Number</u> |
| | V-6069 | N/A |
| <u>Project Title:</u> Environmentally Assisted Cracking Reactor Internals | | |
| <u>Principal Investigator</u> | Omesh Chopra | (630) 252-5117 |
| <u>NRC Project Manager</u> | Gary Stevens | (301) 251-7569 |
| Total Award Amount: | | \$420,500 |
| Funds Obligated to Date: | | \$142,000 |
| Total Costs Incurred This Reporting Period: | | \$16,972 |
| Cumulative Costs to Date: | | \$42,956 |
| Percent Expended (Cum Cost/Obligated): | | 30% |
| Balance of Obligated Funds Remaining: | | \$99,044 |
| Balance of Funds not Obligated: | | \$278,500 |
| Period of Performance: | August 2010-November 2011 | |

B. Efforts Completed/Schedule Milestone Information

| Subtask | Description | Planned Completion Date | Revised Completion Date | Actual Completion Date |
|---------|--|-------------------------|-------------------------|------------------------|
| a | Review ASME Code Cases – environmental fatigue curves & Fen methodology | March 2011 | | |
| b | Review appropriateness of strain threshold and hold-time effects | May 2011 | | |
| c | Evaluate additional fatigue S/N data and revise/update RG 1.207 | Oct 2011 | | |
| d | Practical issues associated with Fen methodology | May 2011 | | |
| e | Address environmental fatigue issues in license renewal and new reactor design | TBD | | |
| f | Knowledge transfer of supporting environmental fatigue data | TBD | | |

C. Work Performed

During the current reporting period, we completed evaluation of Code Case N-761 "Fatigue Design Curves for Light Water Reactors (LWR) Environments" and Code Case N-792 "Fatigue Evaluations Including Environmental Effects." The results indicate that CC N-792 methodology is essentially the same as that of NUREG/CR-6909 except it does not include the strain threshold below which environmental effects are considered to be insignificant and Fen = 1. Instead, a strain rate threshold is included above which Fen = 1. Omesh Chopra travelled to Seattle on February 1 and 2, 2011, to attend the ASME Code meetings of Subgroup Fatigue Strength and EAF Expert Panel, and presented the results of the evaluation of Code Case N-761. The results indicate several inconsistencies with the methodology proposed in Code Case N-792. Omesh Also attended the meeting of Task Group on Crack Growth Reference Curves.

**Argonne National Laboratory Monthly Status Report for February 2011
Under JCN V-6069**

D. Problem/Resolution

None.

E. Travel for This Period

None.

F. Plans for Next Period

Continue review and evaluation of the ASME Code Cases (N-761 and N-792) and practical issues associated with the environmental fatigue design curves and Fen methodology. Review and determine the validity of strain rate threshold and effects of hold-time on the Fen methodology for incorporating environmental effects.

From: Coe, Doug
To: Bowman, Gregory; Coyne, Kevin; Sheron, Brian; Uhle, Jennifer
Cc: Hudson, Daniel; Rini, Brett
Subject: RE: SRM - COMGEA-11-0001 - Utilization of Expert Judgment in Regulatory Decision Making
Date: Tuesday, March 15, 2011 2:06:30 PM

Thanks Greg. Thanks for the feedback on the ASP briefing.

(b)(5)

Doug

From: Bowman, Gregory
Sent: Tuesday, March 15, 2011 1:22 PM
To: Coe, Doug; Coyne, Kevin
Cc: Hudson, Daniel; Rini, Brett
Subject: FW: SRM - COMGEA-11-0001 - Utilization of Expert Judgment in Regulatory Decision Making

(b)(5)

(b)(5)

Also, I thought the staff did a really good job on Friday of taking care of the multiple briefings they had on ASP, especially considering all the scheduling issues in response to the earthquake. Marty sat in on the Chairman's briefing and I know he thought it went very well, too.

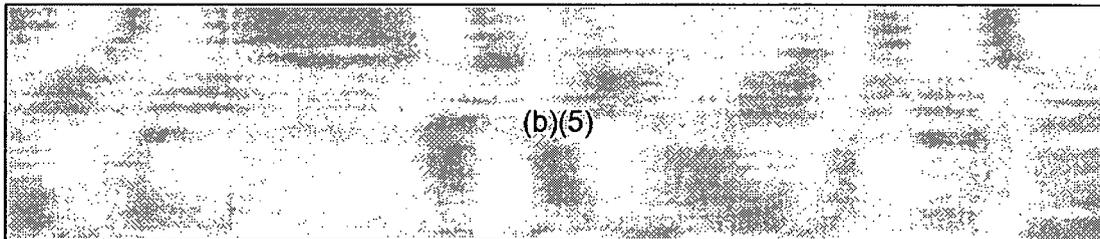
Greg

From: RidsEdoDraftSrmVote Resource
Sent: Tuesday, March 15, 2011 12:52 PM
To: Ash, Darren; Borhardt, Bill; Boyd, Lena; Buckley, Patricia; Clarke, Deanna; Cohen, Miriam; EDO_Staff_Assistants; Flory, Shirley; Fry, Jeannie; Garland, Stephanie; Johnson, Michael; Mamish, Nader; Matakas, Gina; Miles, Patricia; Miller, Charles; Owen, Lucy; Riddick, Nicole; RidsAdmMailCenter Resource; RidsCsoMailCenter Resource; RidsFsmeOd Resource; RidsHrMailCenter Resource; RidsNmssOd Resource; RidsNroMailCenter Resource; RidsNrrOd Resource; RidsNsrMailCenter Resource; RidsOeMailCenter Resource; RidsOiMailCenter Resource; RidsOIS Resource; RidsResOd Resource; RidsRgn1MailCenter Resource; RidsRgn2MailCenter Resource; RidsRgn3MailCenter Resource; RidsRgn4MailCenter Resource; RidsSbcrMailCenter Resource; Thomas, Loretta; Virgilio, Martin; Walker, Dwight; Weber, Michael
Subject: FW: SRM - COMGEA-11-0001 - Utilization of Expert Judgment in Regulatory Decision Making

From: Lewis, Antoinette
Sent: Tuesday, March 15, 2011 11:11 AM

AS/100

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; RidsOcfoMailCenter Resource; RidsOgcMailCenter Resource; RidsOigMailCenter Resource; RidsOipMailCenter Resource; Baval, Rochelle; Rothschild, Trip; Joosten, Sandy; Savoy, Carmel; Sharkey, Jeffrey; 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
Cc: Wright, Darlene; Lewis, Antoinette
Subject: SRM - COMGEA-11-0001 - Utilization of Expert Judgment in Regulatory Decision Making



If you have any questions, please give me a call on 415-1969.

From: Gavrilas, Mirela
To: Berry, Rollie; Stout, Kathleen
Cc: Benner, Eric; Ordaz, Vonna; Kokajko, Lawrence; Waters, Michael; Ford, William; Kuk, Jennifer; Grancorvitz, Teresa; Spencer, Ruth; Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coyne, Kevin; Rivera-Lugo, Richard; Ibarra, Jose; Hudson, Daniel; Armstrong, Kenneth; Rini, Brett; Peters, Sean
Subject: RE: RES Response to followup actions from a.m. meeting on NMSS/SFST budget
Date: Tuesday, March 15, 2011 2:12:37 PM

(b)(5)

M.

From: Stout, Kathleen
Sent: Tuesday, March 15, 2011 1:43 PM
To: Berry, Rollie
Cc: Benner, Eric; Ordaz, Vonna; Kokajko, Lawrence; Waters, Michael; Ford, William; Kuk, Jennifer; Grancorvitz, Teresa; Spencer, Ruth; Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coyne, Kevin; Rivera-Lugo, Richard; Ibarra, Jose; Hudson, Daniel; Armstrong, Kenneth; Rini, Brett; Gavrilas, Mirela; Peters, Sean
Subject: RES Response to followup actions from a.m. meeting on NMSS/SFST budget

Rollie,

(b)(5)

Please let me know if you have questions.

AS/101

Thanks,

Kathleen

Kathleen Stout
RES/PMDA/FPMB
tel: 301-251-7941

From: Berry, Rollie

Sent: Tuesday, March 15, 2011 10:50 AM

To: Augustus, Reginald; Green, Jamie; Harvey, Sue; Ma, May; Nelson-Wilson, Carlyeamaryllis; Shnyder, Yana; Grancorvitz, Teresa; Spencer, Ruth; Stout, Kathleen; Zilka, Kathleen; Hunter, James; McGill, Clinton; Bayliff, Shirley; Holt, BJ; Gardin, Kathy; Nute-Blackshear, Lora; Lockhart, Michelle; Rule, David; Nick, Joseph; Vassos, John; Butler, Rodney; Ford, William; Blond, Tamoria; Weaver, Doug; Benner, Eric; Rahimi, Meraj; Mohseni, Aby; Davis, Jack; Kokajko, Lawrence; Kuk, Jennifer; Lorson, Raymond; Munday, Joel; Boland, Anne; Caniano, Roy; HQ-EBB-01B15-25p-VTC; Woods, Carolyn; Cain, Chuck; Duncan, Eric; Hills, David; Lara, Julio; Lipa, Christine; Louden, Patrick; OBrien, Kenneth; Reynolds, Steven; Shear, Gary; Sotiropoulos, Dina; West, Steven; Coe, Doug; Coyne, Kevin; Gibson, Kathy; Scott, Michael; Armstrong, Kenneth; Hudson, Daniel; Case, Michael; Richards, Stuart; Rini, Brett; Waters, Michael; Peters, Sean; Gavrilas, Mirela; Curran, Bridget; Diaz-Toro, Diana; Lois, Erasmia; Correia, Richard; Holahan, Patricia; McDermott, Brian; Resner, Mark; VandenBerghe, John; Dudek, Michael; Abraham, Susan; Caldwell, Robert; Rheaume, Cynthia; Layton, Michael; Morris, Scott; Westreich, Barry; Brown, Cris; Riffle, Deani; Shropshire, Alan; Williamson, Linda

Subject: SFST 2-pager (no edits from meeting, but should have been sent out before the meeting)

Attached is the 2-pager I should have sent out before the meeting. This will change, but I wanted everyone to start from a common point. If you had an action to describe work in more detail or another action please get back to both myself as well as Jennifer Kuk (Jennifer.Kuk@nrc.gov). We are working towards Thursday the 17th as the date for this to be complete.

Best,
Rollie

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line, Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

Nuclear Materials and Waste Safety Program
Expanded Business Line: Spent Fuel Storage and Transportation

(b)(5)

From: Hudson, Daniel
To: Coe, Doug; Coyne, Kevin
Subject: RE: NRO Mtg -- get ready for action
Date: Tuesday, March 15, 2011 2:12:27 PM

Doug,

Thanks very much for taking the time to respond. We're meeting with the other RES Divisions at 2:30pm to discuss our prioritization.

I hope you are (b)(6) Be safe!

Best,
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

From: Coe, Doug
Sent: Tuesday, March 15, 2011 2:02 PM
To: Hudson, Daniel; Coyne, Kevin
Subject: RE: NRO Mtg -- get ready for action

Kevin/Dan,

(b)(5)

(b)(5)

In any case, we should, again, clearly identify to NRO what work they will not have done if cuts are made. Please feel free to make more informed choices/decisions based on your current info and understanding. You don't need my approval. I'll try to keep checking in periodically.

From: Hudson, Daniel
Sent: Tuesday, March 15, 2011 1:37 PM
To: Coyne, Kevin
Cc: Coe, Doug
Subject: FW: NRO Mtg -- get ready for action

Kevin,

(b)(5)

Do you want to meet and discuss in preparation for this pending quick turnaround

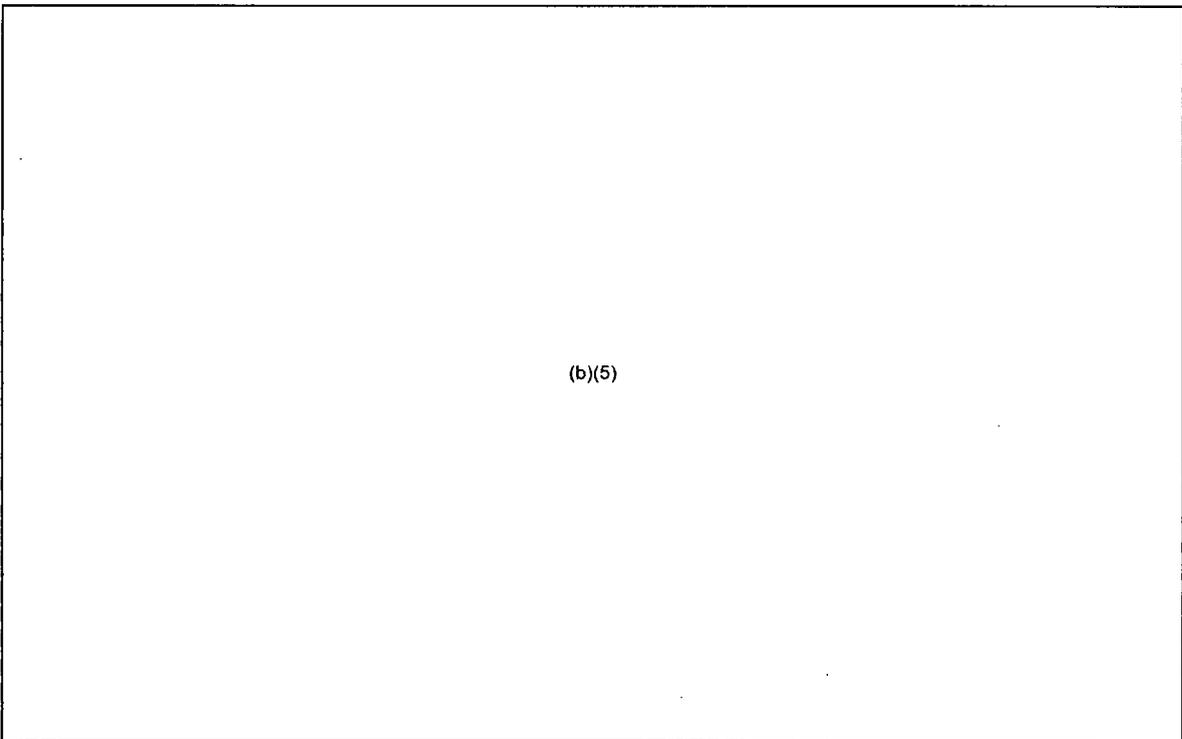
AS/102

request?

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

From: Spencer, Ruth
Sent: Tuesday, March 15, 2011 12:06 PM
To: Armstrong, Kenneth; Hudson, Daniel; Rivera-Lugo, Richard
Cc: Rini, Brett; Stout, Kathleen; Grancorvitz, Teresa; Scott, Michael
Subject: NRO Mtg -- get ready for action
Importance: High



I'm still over at WFN for an NRR meeting this afternoon, but I'll be back later if you want to discuss.

Thanks, Ruth

From: Ott, William
To: Coyne, Kevin
Subject: RE: DRA/PRAB comments on Dam Failure IN
Date: Tuesday, March 15, 2011 2:21:49 PM

Kevin,

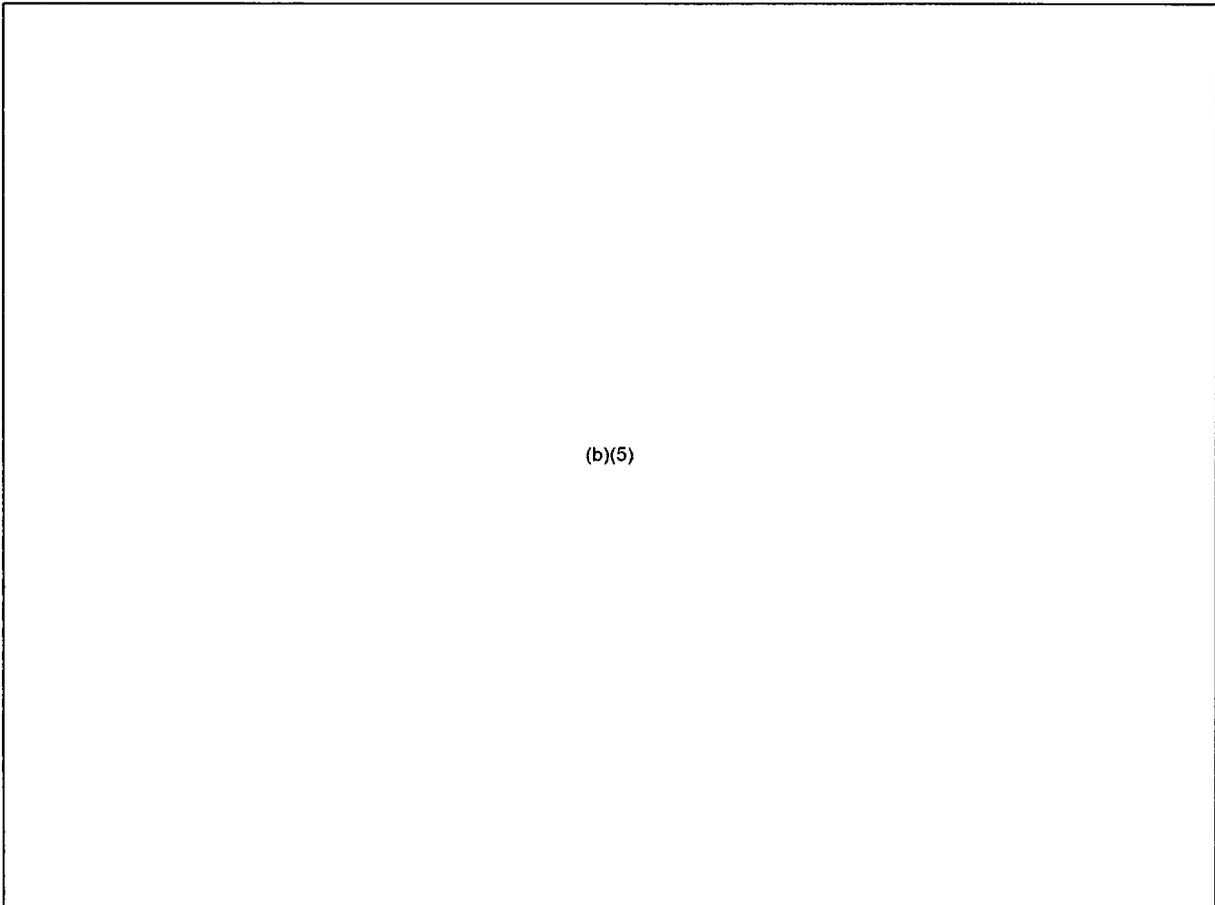
Jake looked at Fernando's latest and didn't have any problems from his perspective but wants to take one more look. Will get back to you by 4:00.

Bill

From: Coyne, Kevin
Sent: Tuesday, March 15, 2011 1:34 PM
To: Ferrante, Fernando; Mitman, Jeffrey
Cc: Wood, Jeffery; Kuritzky, Alan; Sancaktar, Selim; Rodriguez, Veronica; Ott, William; Coe, Doug; Philip, Jacob
Subject: FW: DRA/PRAB comments on Dam Failure IN

Fernando, Jeff –

Thanks again for the opportunity to review the IN. Please see below comments from Jeff on the dam failure IN (Selim has also concurred on these comments). I think our main comments boil down to the following:



AS/103

(b)(5)

Please let us know if you'd like to meet to discuss these comments – I do want to echo Jeff's appreciation for the effort you have put into addressing our comments. It has been a very fruitful and productive effort.

Thanks!

Kevin

From: Wood, Jeffery
Sent: Monday, March 14, 2011 5:14 PM
To: Coyne, Kevin; Sancaktar, Selim
Cc: Kuritzky, Alan
Subject: RE: DRA/PRAB comments on Dam Failure IN

Kevin,

Below are my comments on the IN. Overall, I think the revisions have improved the IN.

(b)(5)

(b)(5)

Overall, I appreciate the effort to address the RES comments, and I think they have been mostly addressed.

From: Coyne, Kevin
Sent: Friday, March 11, 2011 5:47 PM
To: Sancaktar, Selim; Wood, Jeffery
Cc: Kuritzky, Alan
Subject: FW: DRA/PRAB comments on Dam Failure IN
Importance: High

Selim, Jeff –

NRR may be ramping up the priority level for this IN – can you take a look (if you haven't already) and get me your comments as soon as possible? Let's target completing the review by Tuesday if possible. I think we are going to receive a very quick turnaround ticket for concurrence –

Kevin

From: Ferrante, Fernando
Sent: Thursday, March 03, 2011 11:18 AM
To: Helton, Donald
Cc: Coyne, Kevin
Subject: FW: DRA/PRAB comments on Dam Failure IN

From: Ferrante, Fernando
Sent: Thursday, March 03, 2011 11:17 AM
To: Coyne, Kevin
Cc: Wood, Jeffery; Sancaktar, Selim; Mitman, Jeffrey; Rodriguez, Veronica
Subject: RE: DRA/PRAB comments on Dam Failure IN

Kevin,

After the PSA2011 paper effort (which Mitman will be presenting, slides will be forthcoming), I got sidetracked on the IN. I fully agree that the issue is complex and nuanced, which is why I greatly appreciate your feedback on this. I have attached a first attempt to answer the specific comments on the IN (see the attached file). These may not be fully developed for all comments, but we can sit down together at some point and more efficiently converge on a final version.

I am attaching: (i) the IN with responses to comments and added text (this is the same as the version that is in ADAMS, ML0905102690), and (ii) responses to comments in the e-mail.

Thank you,

From: [Zabel, Joseph](#)
To: [Sun, Casper](#)
Subject: RE: Request for QTE
Date: Tuesday, March 15, 2011 3:04:00 PM
Attachments: [@DG8051 \(2-11-11\).red.docx](#)
[@DG8051 \(2-11-11\).cor.docx](#)

Hi Casper:

I have attached the redline and corrected copies of DG-8051 for your review and distribution. Please note that I have highlighted some paragraphs on page 3 that need your attention.

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
o6D05

From: Sun, Casper
Sent: Tuesday, March 08, 2011 7:55 AM
To: Zabel, Joseph
Cc: Jervey, Richard; Schaffer, Steven
Subject: FW: Request for QTE

Dear Joe,

Time fly: I am back (b)(6)

I do need to follow up and work on both DG-8050 and DG-8051 in your hand. Please check. Any questions please contact me directly.

Thank you so much,
Casper

From: Sun, Casper
Sent: Thursday, February 03, 2011 5:19 PM
To: Zabel, Joseph
Cc: Jervey, Richard; Schaffer, Steven
Subject: RE: Request for QTE

Dear Joe,

AS/104

Please review this DG-8050 for the last time: I have made a lot of change since your last review.

I am looking forward to learn your English and thanking you in advance.

Happy New Year (Chinese),

Casper Sun, Ph.D., CHP

Health Physicist

Health Effects Branch, Division of System Analysis

Office of Nuclear Regulatory Research

MS CSB 3C-07

U.S. Nuclear Regulatory Commission

Washington, D.C. 20555

Office 301-251-7912 Fax 301-251-7436

From: Jervey, Richard

Sent: Friday, October 01, 2010 10:12 AM

To: Sun, Casper

Subject:

Hi Casper,

Please verify the references are still correct. If so , we are ready to prepare the concurrence package.

Regards,

R. A. Jervey

RES/DE/RGDB

CS2A07

301/251-7404

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

PROHIBITED

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

PIC-Decisional

From: [Armstrong, Kenneth](#)
To: [Gavrilas, Mirela](#); [Coyne, Kevin](#); [Hudson, Daniel](#); [Shaffer, Sarah](#); [Zaki, Tarek](#)
Subject: FW: NRO Mtg -- get ready for action
Date: Tuesday, March 15, 2011 3:10:08 PM
Attachments: [New Rx BL Prioritizations - 3-15-11 kwa.xlsx](#)
[NGNP FY12 Reduced Budget with Impact Descriptions - 2-4-11.xlsx](#)
[NewReactorBLFY13.xlsx](#)
Importance: High

I just briefly took out some lines to make the first attachment a little cleaner.

From: Spencer, Ruth
Sent: Tuesday, March 15, 2011 12:06 PM
To: Armstrong, Kenneth; Hudson, Daniel; Rivera-Lugo, Richard
Cc: Rini, Brett; Stout, Kathleen; Grancorvitz, Teresa; Scott, Michael
Subject: NRO Mtg -- get ready for action
Importance: High

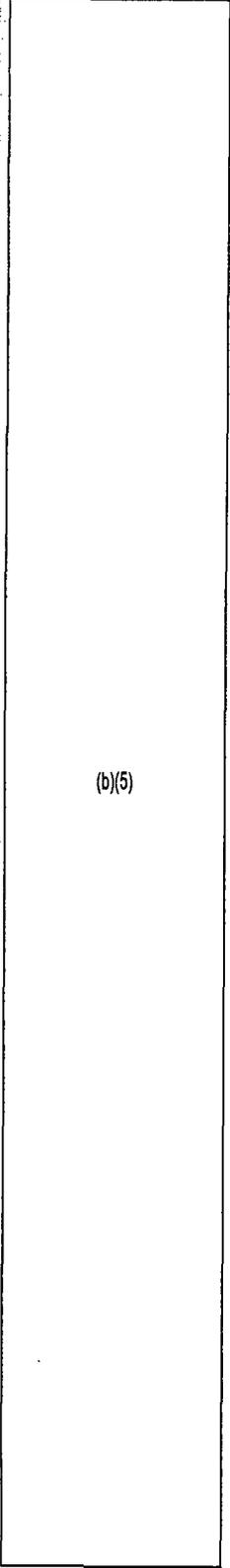
(b)(5)

I'm still over at WFN for an NRR meeting this afternoon, but I'll be back later if you want to discuss.

Thanks, Ruth

AS/105

(b)(5)



(b)(5)

(b)(5)

From: Campbell, Stephen
To: Glitter, Joseph
Cc: Howe, Allen; Boger, Bruce; Leeds, Eric
Subject: NRR BLN 1 input into NRO Monthly Commission Report
Date: Tuesday, March 15, 2011 3:22:38 PM
Attachments: Q3-17-11 BLN 1 Commission Monthly Report (3).docx
Importance: High

Joe:

The Watts Bar Special Projects Team reviewed and approved this. I need to get it to NRO by COB on March 17. Please review and comment as necessary.

Stephen J. Campbell,

Branch Chief

NRR/DORL/LP-WB

U.S. Nuclear Regulatory Commission

Office - O8H1

Mail Stop - O8H4A

Washington, DC 20555

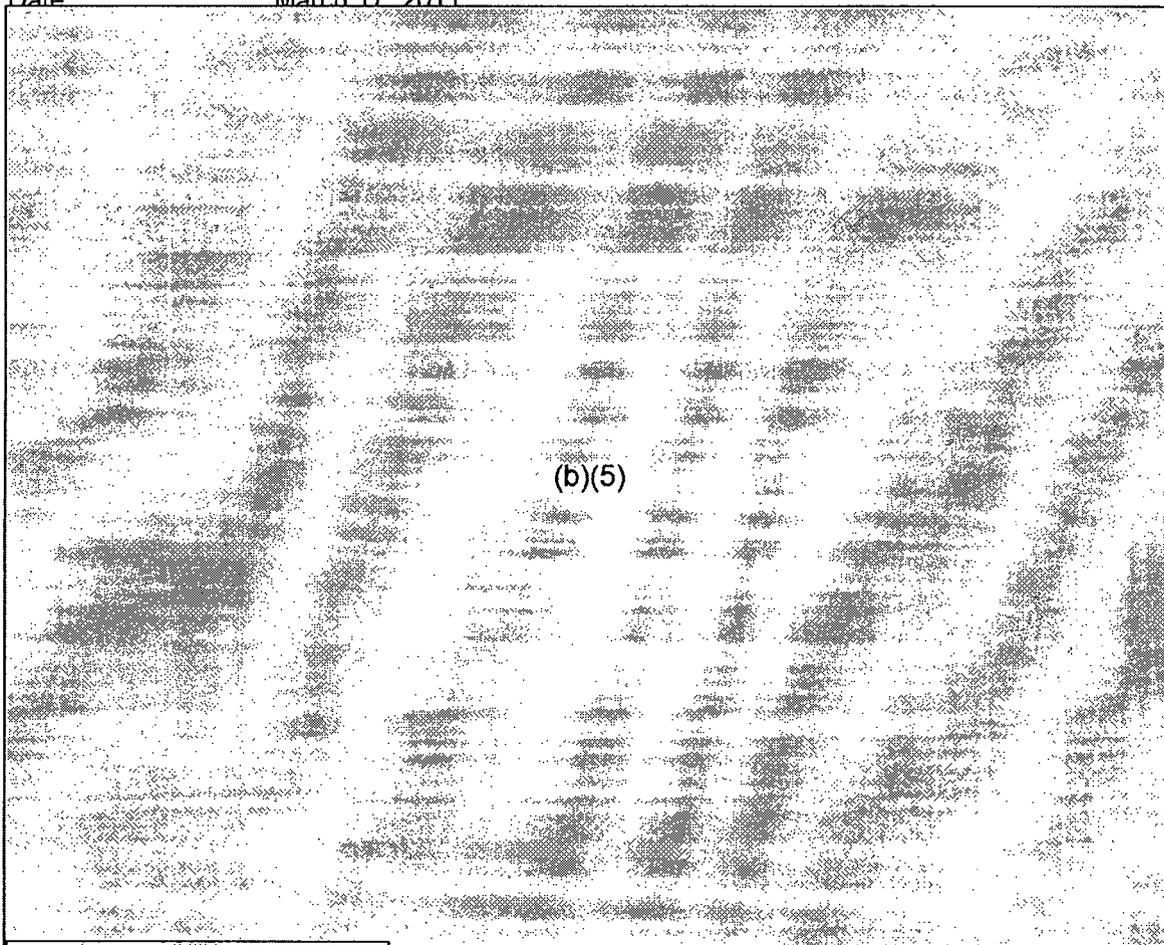
✉ E-mail: stephen.campbell@nrc.gov | 📞 Office: (301) 415-3353 | 📠 NRC Cell (b)(6) | 📠 Fax: (301) 415-1885



AS/108

BELLEFONTE UNIT 1 (BLN 1) LICENSING

Date: March 17, 2011



(b)(5)

(b)(5)

etS

From: Tomon, John
To: Worosilo, Jannette; Bernhard, Rudolph; King, Mark; Thorp, John; Musser, Randy; Coyne, Kevin; Marksberry, Don
Cc: Lewis, Doris; Gibson, Kathy
Subject: Draft of words for H.B. Robinson Event
Date: Tuesday, March 15, 2011 3:23:26 PM
Attachments: Copy of H.B. Robinson (Appendix C-March 15 2011).docx

Good afternoon all! Thanks to the hard work of everyone I have received inputs for the H.B. Robinson event. I edited the inputs slightly to make sure they meet the format for the AO Report (tech editing).

I am sending it out the draft with the recommended changes to all of the concerned offices (NRR, Region II and RES/DRA/PRA) to ensure that they concur on the wording as revised.

Please let me know what your offices and management think (Region II RA has concurred on the inputs) .

Thanks!

V/r

John J. Tomon

Health Physicist

RES/DSA/HEB

(301) 251-7904 (Office)

(b)(6) (cell)

CSB-3C23 Mail Stop CSB- C3A24M

AS/107

(b)(5)

(b)(5)

From: Nelson, Robert
To: Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; Evans, Michele; Ferrell, Kimberly; Galloway, Melanie; Glitter, Joseph; Givvines, Mary; Hilland, Patrick; Holian, Brian; Howe, Allen; Lee, Samson; Lubinski, John; McGinty, Tim; Quay, Theodore; Ruland, William; Skeen, David; Thomas, Brian
Subject: FYI: NRR Reorg Subcommittee Activities
Date: Tuesday, March 15, 2011 3:46:58 PM
Attachments: NRR Reorg Schedule.xls

I'm following up on a commitment that I made at today's LT meeting regarding our subcommittee schedule and status of activities. Our schedule, prepared before the earthquake in Japan, is attached.

Status –

1. Reviewed and assessed ET goals/direction/expectations.
2. Brainstormed possible reorg actions/scenarios
3. Developed pro & cons for most of item 2.
4. Reviewed current distribution of staff by branch in each division
5. Discussed several specific consolidation scenarios.
6. Developed a preliminary draft reorg based on 544 FTE for FY12
7. Informed NTEU that we are evaluating an office reorg.

The preliminary draft reorg has not been fully vetted with the members of the subcommittee. We had planned to discuss it at our next weekly meeting. Given that two of our subcommittee are staffing the Ops Center, I'm not sure when and to what degree we'll be able to reengage.

I also committed to develop a message that we could send to the staff concerning our activities. I'll take an IOU on that commitment.

NELSON

AS/108

NRR REORG SCHEDULE

| Activity | Lead | Duration (Calendar Days) | Completion Date |
|---------------------------------|-----------------|--------------------------------|--------------------|
| Issue Comm Paper | OEDO | 0 | 8/14/2011 |
| Comm Paper Concurrence | LT Subcommittee | 21 | 8/14/2011 |
| Prepare Comm Paper | LT Subcommittee | 14 | 7/24/2011 |
| Final ET Brief | LT Subcommittee | 4 | 7/10/2011 |
| Final LT Brief | LT Subcommittee | 2 | 7/6/2011 |
| Final Brief to NTEU | LT Subcommittee | 4 | 7/4/2011 |
| Resolve NTEU Comments | LT Subcommittee | 7 | 6/30/2011 |
| NTEU Provide Comments | NTEU | 7 | 6/23/2011 |
| Prepare & Brief NTEU | LT Subcommittee | 7 | 6/16/2011 |
| ET Concurrence | ET | 7 | 6/9/2011 |
| Prepare & Brief ET | LT Subcommittee | 7 | 6/2/2011 |
| LT Concurrence | LT | 14 | 5/26/2011 |
| Resolve LT Comments | LT Subcommittee | 14 | 5/12/2011 |
| Prepare & Brief LT | LT Subcommittee | 7 | 4/28/2011 |
| Complete Proposed Reorg | LT Subcommittee | 14 | 4/21/2011 |
| Complete Options Assessment | LT Subcommittee | 14 | 4/7/2011 |
| Finalize Options | LT Subcommittee | 14 | 3/24/2011 |
| Complete First Draft of Options | LT Subcommittee | 28 | 3/10/2011 |
| Initiate Project | LT Subcommittee | | 2/10/2011 |

From: Coyne, Kevin
To: Gibson, Kathy
Cc: Hudson, Daniel; Santiago, Patricia; Stutzke, Martin; Scott, Michael
Subject: RE: Revised Draft Scheduling Note for Level 3 PRA-SOARCA Commission Meeting
Date: Tuesday, March 15, 2011 4:28:00 PM
Attachments: Level 3 PRA-SOARCA Commission Meeting Scheduling Note 03152011 Final.docx
Importance: High

Kathy –

Please see final scheduling note based on feedback from the meeting with Brian. Brian will deliver the introduction and the SOARCA discussion has been retitled "Status of SOARCA Activities". If this looks good for you, let me know and I'll forward to the EDO's office (Brian has already given his ok).

Thanks –

Kevin

From: Hudson, Daniel
Sent: Tuesday, March 15, 2011 2:08 PM
To: Santiago, Patricia; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stutzke, Martin
Subject: Revised Draft Scheduling Note for Level 3 PRA-SOARCA Commission Meeting

All,

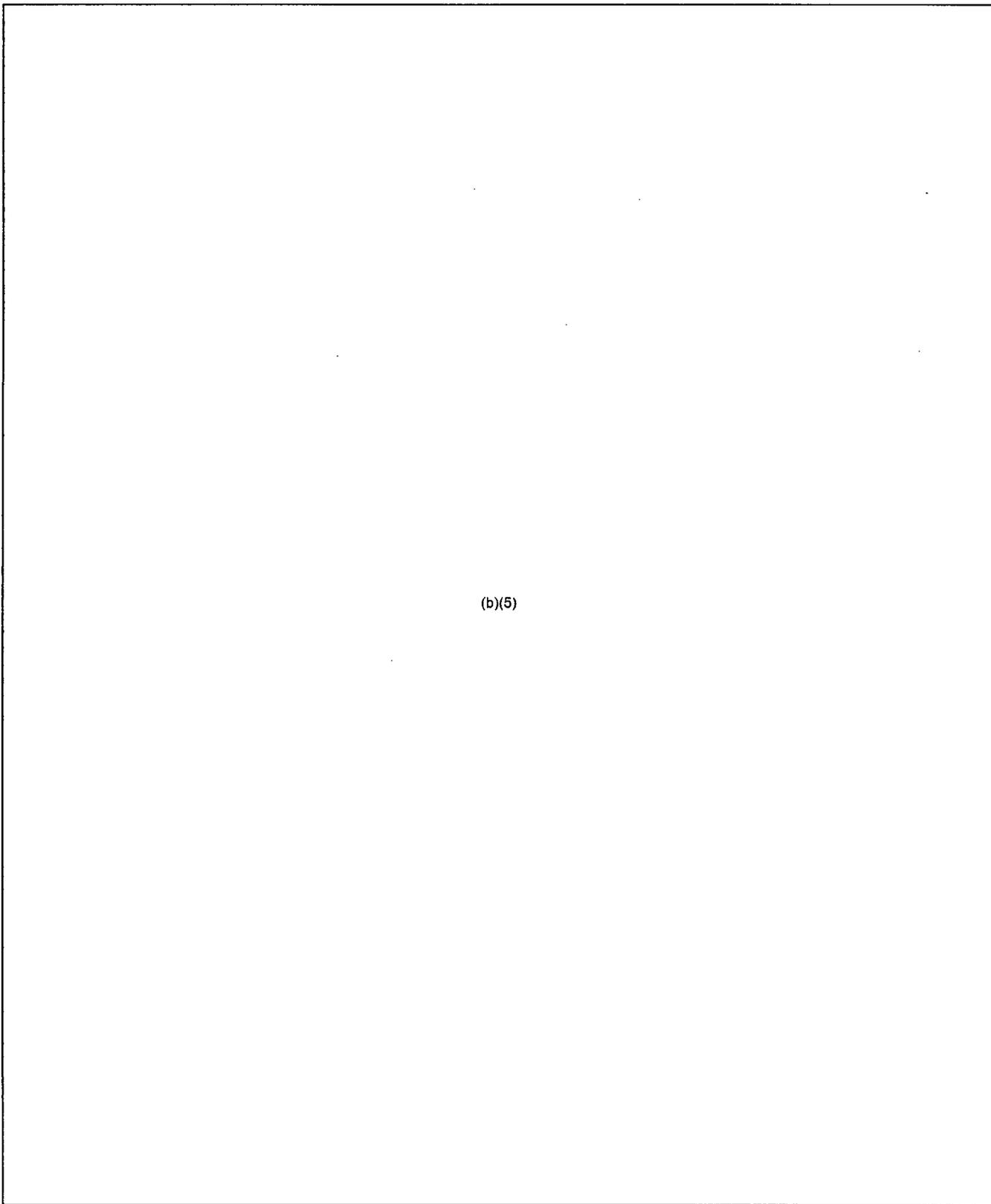
Based on discussions between the DRA and DSA management teams, the draft scheduling note has been revised to update the presenters in the NRC Staff Panel. The attached version will be reviewed at the meeting to be held from 3:30pm – 4:00pm today in Brian's office.

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

AS/109

Draft: 03/15/11



(b)(5)

(b)(5)

From: Coyne, Kevin
To: Tomon, John
Cc: Lewis, Doris; Gibson, Kathy; Worosilo, Jannette; Bernhard, Rudolph; Thorp, John; Marksberry, Don; Musser, Randy; King, Mark; Doug Coe (Coe, Doug)
Subject: RE: Draft of words for H.B. Robinson Event
Date: Tuesday, March 15, 2011 4:20:00 PM
Importance: High

John –

Thanks for pulling this together. One minor revision on the last sentence to the second to last paragraph:

(b)(5)

RES/DRA concurs with the revision to the Robinson write-up in the "Other Events of Interest" with this comment.

Please let me know if you need anything else or have questions –

Kevin

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

(b)(6) (cell)

From: Tomon, John
Sent: Tuesday, March 15, 2011 3:23 PM
To: Worosilo, Jannette; Bernhard, Rudolph; King, Mark; Thorp, John; Musser, Randy; Coyne, Kevin; Marksberry, Don
Cc: Lewis, Doris; Gibson, Kathy
Subject: Draft of words for H.B. Robinson Event

Good afternoon all! Thanks to the hard work of everyone I have received inputs for the H.B. Robinson event. I edited the inputs slightly to make sure they meet the format for the AO Report (tech editing).

I am sending it out the draft with the recommended changes to all of the concerned offices (NRR, Region II and RES/DRA/PRA) to ensure that they concur on the wording as revised.

AS/110

Please let me know what your offices and management think (Region II RA has concurred on the inputs) .

Thanks!

V/r

John J. Tomon

Health Physicist

RES/DSA/HEB

(301) 251-7904 (Office)

(b)(6)

(cell)

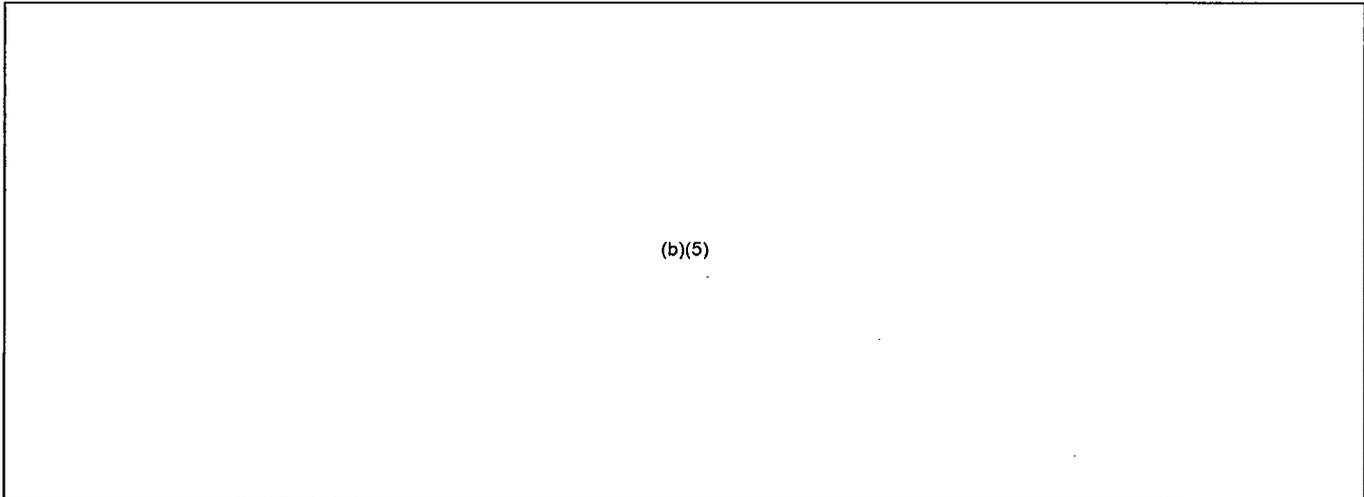
CSB-3C23 Mail Stop CSB- C3A24M

Stutzke, Martin

From: Stutzke, Martin
Sent: Tuesday, March 15, 2011 4:59 PM
To: Hudson, Daniel
Subject: FW: Revised Draft Scheduling Note for Level 3 PRA-SOARCA Commission Meeting
Attachments: Level 3 PRA-SOARCA Commission Meeting Scheduling Note 03152011_Final.docx

Importance: High

Dan –



Marty

From: Coyne, Kevin
Sent: Tuesday, March 15, 2011 4:29 PM
To: Gibson, Kathy
Cc: Hudson, Daniel; Santiago, Patricia; Stutzke, Martin; Scott, Michael
Subject: RE: Revised Draft Scheduling Note for Level 3 PRA-SOARCA Commission Meeting
Importance: High

Kathy –

Please see final scheduling note based on feedback from the meeting with Brian. Brian will deliver the introduction and the SOARCA discussion has been retitled "Status of SOARCA Activities". If this looks good for you, let me know and I'll forward to the EDO's office (Brian has already given his ok).

Thanks –

Kevin

From: Hudson, Daniel
Sent: Tuesday, March 15, 2011 2:08 PM
To: Santiago, Patricia; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stutzke, Martin
Subject: Revised Draft Scheduling Note for Level 3 PRA-SOARCA Commission Meeting

All,

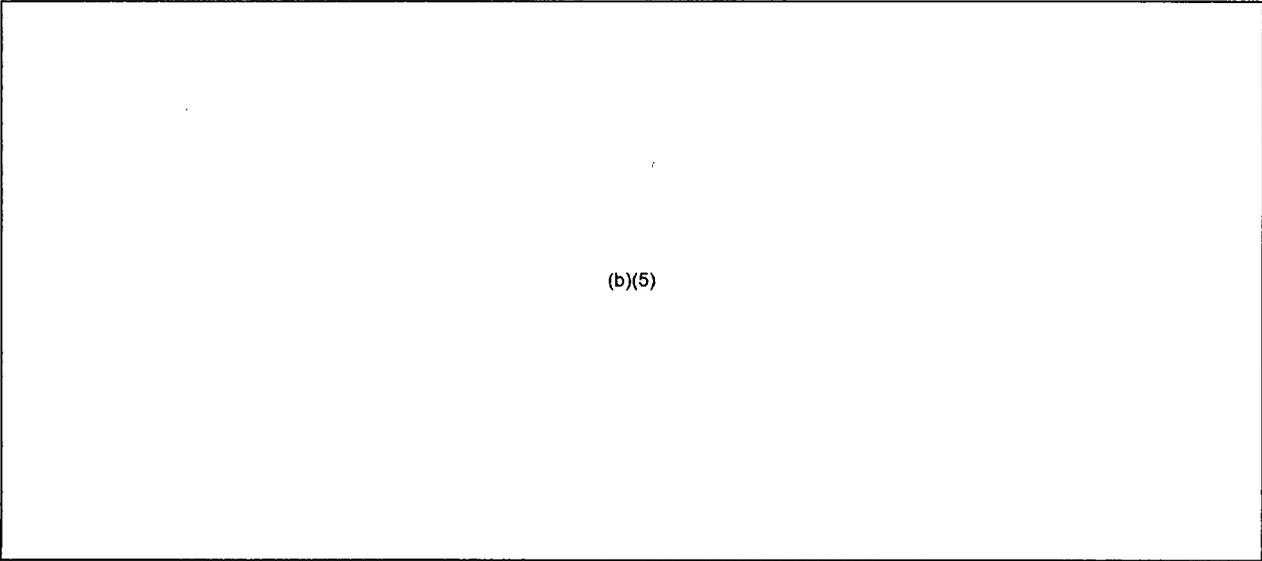
Based on discussions between the DRA and DSA management teams, the draft scheduling note has been revised to update the presenters in the NRC Staff Panel. The attached version will be reviewed at the meeting to be held from 3:30pm – 4:00pm today in Brian's office.

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

Draft: 03/15/11

(b)(5)



(b)(5)

From: Demoss, Gary
To: Coyne, Kevin
Subject: Re: action please reply by COB today 3/16: allocation of EST/WC resources
Date: Wednesday, March 16, 2011 5:08:38 PM

(b)(5)

Sent from an NRC Blackberry
Gary DeMoss

(b)(6)

From: Coyne, Kevin
To: Correia, Richard
Cc: Coe, Doug; Ott, William; Marksberry, Don; Demoss, Gary
Sent: Wed Mar 16 12:14:30 2011
Subject: FW: action please reply by COB today 3/16: allocation of EST/WC resources

Rich –

(b)(5)

Kevin

From: Gavrilas, Mirela

AS/112

Sent: Wednesday, March 16, 2011 11:27 AM

To: Demoss, Gary; Voglewede, John

Cc: Coyne, Kevin; Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy

Subject: action please reply by COB today 3/16: allocation of EST/WC resources

Importance: High

Gary (Kevin)/John,

(b)(5)

Please let me know what your division thinks. I need to give Kathleen an answer tomorrow morning, so I'd much appreciate your input today.

Thanks,
M.

From: Scott, Michael
To: Gavrilas, Mirela; Zaki, Tarek
Cc: Case, Michael; Coyne, Kevin
Subject: Re: NRO Mtg -- get ready for action
Date: Wednesday, March 16, 2011 5:09:15 PM

(b)(5)

Sent from my NRC blackberry
Michael Scott

(b)(6)

From: Gavrilas, Mirela
To: Zaki, Tarek
Cc: Case, Michael; Scott, Michael; Coyne, Kevin
Sent: Wed Mar 16 15:20:33 2011
Subject: RE: NRO Mtg -- get ready for action

Tarek,

Please take another look at my e-mail of this morning--attached. I don't think your sheet captures the input provided by Russ. (b)(5)

(b)(5)

Thanks,
M.

From: Zaki, Tarek
Sent: Wednesday, March 16, 2011 2:56 PM
To: Scott, Michael; Coffin, Stephanie; Coyne, Kevin; Gavrilas, Mirela
Cc: Case, Michael
Subject: RE: NRO Mtg -- get ready for action
Importance: High

(b)(5)

Also, in preparation for our upcoming FY12 budget/FTE discussion this afternoon, I attached Jon's earlier email with the proposed FY12 budget/FTE.

Thanks,
Tarek

From: Zaki, Tarek
Sent: Wednesday, March 16, 2011 11:33 AM
To: Gavrilas, Mirela; Coyne, Kevin

AS/113

Cc: Scott, Michael; Case, Michael; Coe, Doug; Richards, Stuart; Gibson, Kathy
Subject: RE: NRO Mtg -- get ready for action

Mirela/Kevin;

Thanks again for your quick feedback/input yesterday.

(b)(5)

BTW, Mike and I had a meeting with NRO this morning on FY13 budget, I'm working on a summary and I'll forward it to you shortly.

Thanks,
Tarek

From: Gavrilas, Mirela
Sent: Wednesday, March 16, 2011 10:07 AM
To: Zaki, Tarek; Scott, Michael; Coyne, Kevin
Cc: Kelly, Joseph; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah; Csontos, Aladar; Sydnor, Russell; Hogan, Rosemary; Graves, Herman; Case, Michael
Subject: RE: NRO Mtg -- get ready for action

Tarek,

(b)(5)

Thanks,
M.

From: Zaki, Tarek

Sent: Tuesday, March 15, 2011 6:57 PM
To: Scott, Michael; Coyne, Kevin; Gavrilas, Mirela
Cc: Kelly, Joseph; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah
Subject: RE: NRO Mtg -- get ready for action

Mike;

Attached is a proposed RES NGNP FY12 budget & FTE based on our earlier discussion, on Mirela's verbal input to you, and on Kevin's attached email. Please note that this is only for FY12 and does not include the FY13 input provided in Kevin's attached email, neither does it include any FTE to coordinate, manage, and monitor any DOE funded projects (e.g., OSU).

Thanks,
Tarek

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 4:28 PM
To: Zaki, Tarek; Coyne, Kevin; Gavrilas, Mirela
Cc: Scott, Michael; Starefos, Joelle; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah
Subject: RE: NRO Mtg -- get ready for action
Importance: High

(b)(5)

Thanks,
Tarek

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 3:59 PM
To: Coyne, Kevin; Gavrilas, Mirela
Cc: Scott, Michael; Starefos, Joelle; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah
Subject: FW: NRO Mtg -- get ready for action
Importance: High

Mirela/Kevin;

Thanks for meeting with us on such short notice. Attached is Ruth's initial spreadsheet, as well as Ken's emails with the more detailed spreadsheets that we discussed in our meeting.

Please take a look and coordinate with other BC's in your respective divisions regarding the following:

(b)(5)

(b)(5)

Mike was looking to send our feedback to NRO today, so it's urgent. Sorry for the very short notice.

Thanks,
Tarek

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 1:17 PM
To: Coyne, Kevin; Gavrilas, Mirela
Subject: FW: NRO Mtg -- get ready for action
Importance: High

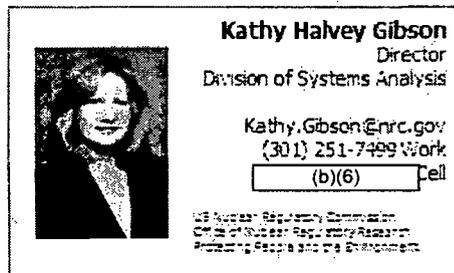
Kevin/Mirela;

Mike is in another budget meeting with NRR and he asked me to coordinate with you. We owe NRO feedback by COB today. Can we get together sometime this afternoon to discuss, is 2:30pm OK?

Thanks,
Tarek

From: Gibson, Kathy
Sent: Tuesday, March 15, 2011 12:59 PM
To: Scott, Michael; Zaki, Tarek
Subject: FW: NRO Mtg -- get ready for action
Importance: High

(b)(5)



From: Armstrong, Kenneth
Sent: Tuesday, March 15, 2011 12:42 PM
To: Elkins, Scott; Hoxie, Chris; Zaki, Tarek; Lee, Richard; Bush-Goddard, Stephanie
Cc: Gibson, Kathy; Scott, Michael; Flanagan, Michelle; Lewis, Doris

From: Drouin, Mary
To: Correia, Richard; Coe, Doug; Covne, Kevin
Cc: Demoss, Gary
Subject: RE: SRM
Date: Tuesday, March 15, 2011 5:51:45 PM

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
- 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

AS/11.4

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.

(b)(5)

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

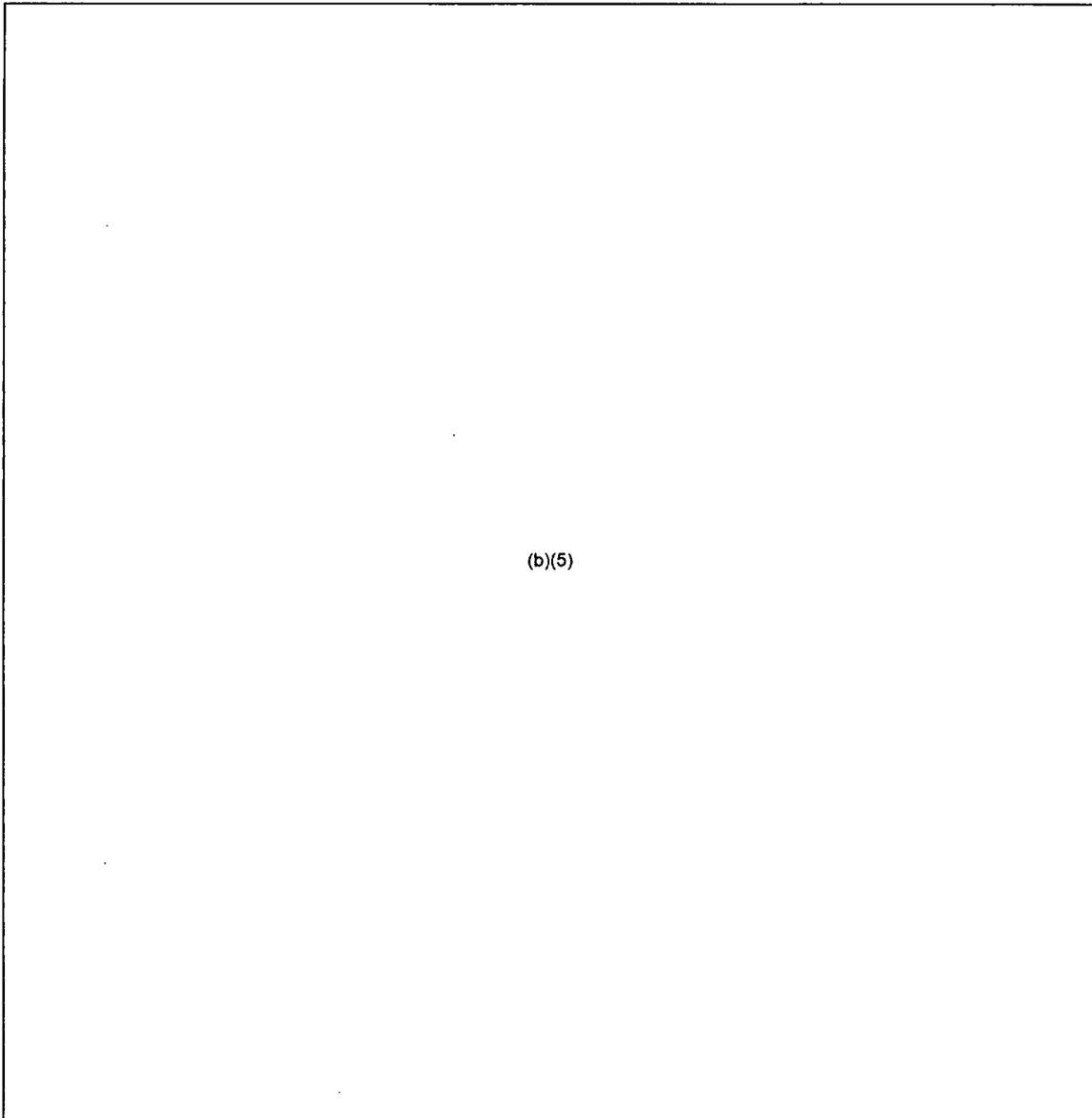
Subject: SRM

From: [Coyne, Kevin](#)
To: [Peters, Sean](#); [Ott, William](#)
Subject: FW: NRO Mtg -- get ready for action: DRA Input (Advanced Reactor Funding)
Date: Tuesday, March 15, 2011 6:03:00 PM
Importance: High

Sorry... forgot the cc...

From: Coyne, Kevin
Sent: Tuesday, March 15, 2011 6:03 PM
To: Zaki, Tarek
Cc: Hudson, Daniel; Armstrong, Kenneth; Scott, Michael; Coe, Doug; Wood, Jeffery
Subject: RE: NRO Mtg -- get ready for action: DRA Input (Advanced Reactor Funding)
Importance: High

Tarek –



AS/115

(b)(5)

Let me know if you need anything else or have any questions –

Kevin

From: Zaki, Tarek

Sent: Tuesday, March 15, 2011 4:28 PM

To: Zaki, Tarek; Coyne, Kevin; Gavrilas, Mirela

Cc: Scott, Michael; Starefos, Joelle; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah

Subject: RE: NRO Mtg -- get ready for action

Importance: High

To further simplify, attached is Jon's email with the NGNP specific sheets that we also discussed in our meeting.

(b)(5)

From: Scott, Michael
To: Bowman, Gregory
Cc: Gibson, Kathy; Tomon, John; Lewis, Doris; Gibson, Kathy; Coyne, Kevin; Bush-Goddard, Stephanie
Subject: REVISED SECTION FOR AO REPORT
Date: Tuesday, March 15, 2011 9:15:40 PM
Attachments: Copy of H B Robinson (Appendix C March 15 2011) mls.docx

(b)(5)

Mike

AS/115

(b)(5)

(b)(5)

From: Musser, Randy
To: Tomon, John; Worosilo, Jannette; Bernhard, Rudolph; King, Mark; Thorp, John; Coyne, Kevin; Marksberry, Don
Cc: Lewis, Doris; Gibson, Kathy
Subject: Re: Draft of words for H.B. Robinson Event
Date: Tuesday, March 15, 2011 9:24:58 PM

RII concurs.

This email is being sent from an NRC Blackberry device.

From: Tomon, John
To: Worosilo, Jannette; Bernhard, Rudolph; King, Mark; Thorp, John; Musser, Randy; Coyne, Kevin; Marksberry, Don
Cc: Lewis, Doris; Gibson, Kathy
Sent: Tue Mar 15 15:23:19 2011
Subject: Draft of words for H.B. Robinson Event

Good afternoon all! Thanks to the hard work of everyone I have received inputs for the H.B. Robinson event. I edited the inputs slightly to make sure they meet the format for the AO Report (tech editing).

I am sending it out the draft with the recommended changes to all of the concerned offices (NRR, Region II and RES/DRA/PRA) to ensure that they concur on the wording as revised.

Please let me know what your offices and management think (Region II RA has concurred on the inputs) .

Thanks!

V/r

John J. Tomon
Health Physicist
RES/DSA/HEB
(301) 251-7904 (Office)
(b)(6) (cell)

CSB-3C23 Mail Stop CSB- C3A24M

AS/117

From: Hudson, Daniel
To: Coyne, Kevin
Subject: RE: Tracking List Update
Date: Tuesday, March 15, 2011 9:40:05 PM

Kevin,

Thanks very much for making the necessary changes and for sending this to OEDO. I really appreciate it.

(b)(5)

Marty and I will be meeting with Pat on Friday to attempt to converge on an integrated staff recommendation.

Have a great night!

Best,
Dan

From: Coyne, Kevin
Sent: Tuesday, March 15, 2011 6:36 PM
To: Andersen, James; Bowman, Gregory
Cc: Armstrong, Kenneth; Hudson, Daniel; Ibarra, Jose; Coe, Doug; Gibson, Kathy; Scott, Michael; Correia, Richard; Ader, Charles; Cheok, Michael; Tinkler, Charles; Stutzke, Martin; Sheron, Brian; Uhle, Jennifer; Santiago, Patricia
Subject: RE: Tracking List Update

Jim, Greg –

(b)(5)

Please let me know if you need any additional information at this time –

Kevin

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

AS/118

(b)(6) (cell)

From: Andersen, James
Sent: Monday, March 14, 2011 11:56 AM
To: Coyne, Kevin
Subject: FW: Tracking List Update

From: Andersen, James
Sent: Monday, March 14, 2011 11:16 AM
To: Santiago, Patricia
Cc: Bowman, Gregory; Scott, Michael; Gibson, Kathy
Subject: RE: Tracking List Update

(b)(5)

Jim A.
415-1725

From: Baval, Rochelle
Sent: Monday, March 14, 2011 10:42 AM
To: Andersen, James
Subject: FW: Tracking List Update

Jim,

I spoke briefly with Angela this morning about agenda planning for July meetings...

(b)(5)

(b)(5)

We're still going to try to meet with Angela this Thursday, 3/17 at 10, since pre-agenda with the Chairman is moved to 3/22.

Rochelle

Draft: 03/15/11

(b)(5)

(b)(5)

From: [Case, Michael](#)
To: [Rivera-Lugo, Richard](#)
Subject: FW: ACTION: FW: NRO Mtg -- get ready for action
Date: Wednesday, March 16, 2011 7:39:00 AM
Attachments: [New Rx BL Prioritizations - 3-15-11.xlsx](#)
Importance: High

Hi Richie. When we get some time this morning, can you walk me through?

From: Rivera-Lugo, Richard
Sent: Tuesday, March 15, 2011 1:28 PM
To: Case, Michael
Cc: Richards, Stuart
Subject: ACTION: FW: NRO Mtg -- get ready for action
Importance: High

Mike,

Please see Ruth's e-mail below (important items highlighted). Let me know when you have a few minutes available to go through the list of medium priorities, so we can be prepared for this action.

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



Please consider the Environment before printing this e-mail.

From: Spencer, Ruth
Sent: Tuesday, March 15, 2011 12:06 PM
To: Armstrong, Kenneth; Hudson, Daniel; Rivera-Lugo, Richard
Cc: Rini, Brett; Stout, Kathleen; Grancorvitz, Teresa; Scott, Michael
Subject: NRO Mtg -- get ready for action
Importance: High

(b)(5)

AS/119

(b)(5)

I'm still over at WFN for an NRR meeting this afternoon, but I'll be back later if you want to discuss.

Thanks, Ruth

(b)(5)

(b)(5)

(b)(5)

From: [Case, Michael](#)
To: [Norris, Wallace](#)
Cc: [Csontos, Aladar](#); [Richards, Stuart](#)
Subject: FW: 50.55a ASME Code Final Rulemaking - concurrence
Date: Monday, March 21, 2011 6:49:00 AM
Attachments: [Dir of NRR Memo.docx](#)
[FRN for Final Rule RIN 3150-A135.docx](#)
[Notice of Final Rule.doc](#)
[Regulatory Analysis 2005 Addenda.docx](#)
[Approval for Publication.doc](#)
[EDO Daily and Weekly Notes.doc](#)
[Congressional Letters.doc](#)

Can we get your recommendation on concurrence?

From: Sheron, Brian
Sent: Saturday, March 19, 2011 5:44 PM
To: Case, Michael; Richards, Stuart
Cc: Uhle, Jennifer
Subject: FW: 50.55a ASME Code Final Rulemaking - concurrence

(b)(5)

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).

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

AS/120

From: [Marksberry, Don](#)
To: [Chang, Richard](#)
Cc: [Coyne, Kevin](#); [Lane, John](#)
Subject: RE: Safety Relief Valve Comparison
Date: Wednesday, March 16, 2011 7:42:20 AM
Attachments: [NUREGCR-XXXX: Relief Valve Component Study \(Final Draft, Oct 2010\).pdf](#)

Here is the final NUREG/CR that is going to printing. John Lane is the RES PM for this work.

From: Coyne, Kevin
Sent: Tuesday, March 15, 2011 7:10 PM
To: Marksberry, Don
Cc: Chang, Richard
Subject: FW: Safety Relief Valve Comparison

Don –

Can you provide Richard with any information we have on safety valves. Didn't Tom Weirman at INL just finish a study recently?

Thanks!

Kevin

From: Chang, Richard
Sent: Tuesday, March 15, 2011 9:14 AM
To: Coyne, Kevin
Subject: Safety Relief Valve Comparison

Kevin,

May I ask to get a copy of the work that you guys have done with Safety Relief Valve failures?

From the last Commission TA briefing done, one of the Commission TAs asked the SOARCA team to look at the work done on SRV failures and compare it to what you guys have done so far.

Thanks,
Richard Chang
Program Manager
RES/DSA/SPB
301-251-7980

AS/121

NUREG/CR-xxxx
INL/EXT-10-17932
October 2010

Industry Performance of Relief Valves at U.S. Commercial Nuclear Power Plants through 2007

*T. E. Wierman, INL
C. D. Gentillon, INL
B. M. Brady, NRC*



*diffusion
Published as
NUREG/CR-
7637
Manuscript
completed 10/10
Published 2/2011*

NOTICE

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for any third party's use, or the results of such use, of any information, apparatus, product, or process disclosed herein, or represents that its use by such third party would not infringe privately owned rights. The views expressed herein are not necessarily those of the U.S. Nuclear Regulatory Commission.

NUREG/CR-xxxx
INL/EXT-10-17932

Industry Performance of Relief Valves at U.S. Commercial Nuclear Power Plants through 2007

T. E. Wierman, INL
C. D. Gentillon, INL
B. M. Brady, NRC

Manuscript Completed October 2010

**Idaho National Laboratory
Risk, Reliability, and NRC Programs Department
Idaho Falls, Idaho 83415**

**Prepared for the
Division of Risk Assessment
Office of Nuclear Regulatory Research
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
Job Codes Y6546 and N6890**

ABSTRACT

(b)(5)

ACKNOWLEDGMENTS

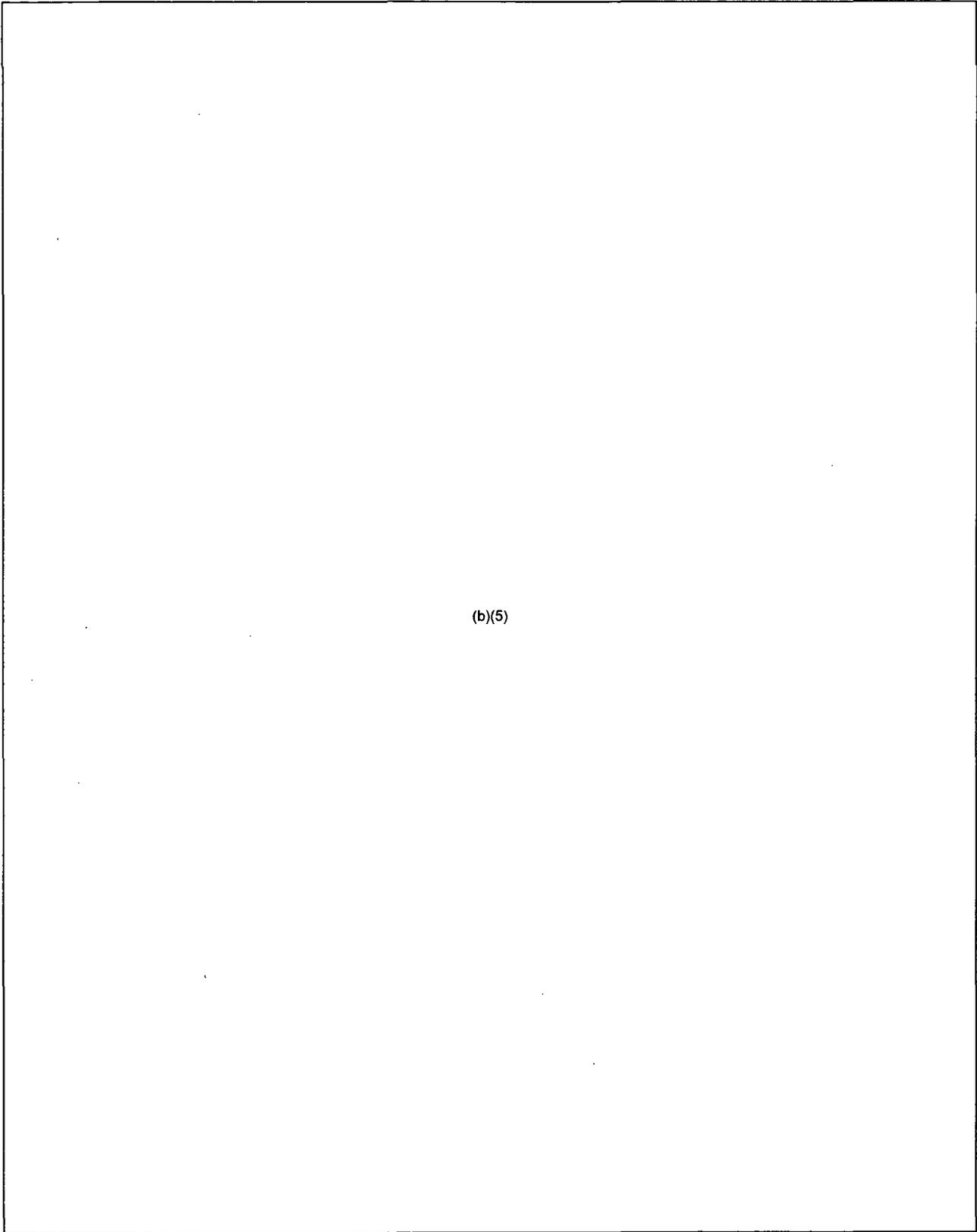
The authors would like to acknowledge the valuable comments and direction provided by Don Marksberry, NRC/RES, Rudy Bernhard, NRC/Region II, and John Lane, NRC/RES.

FOREWORD

(b)(5)

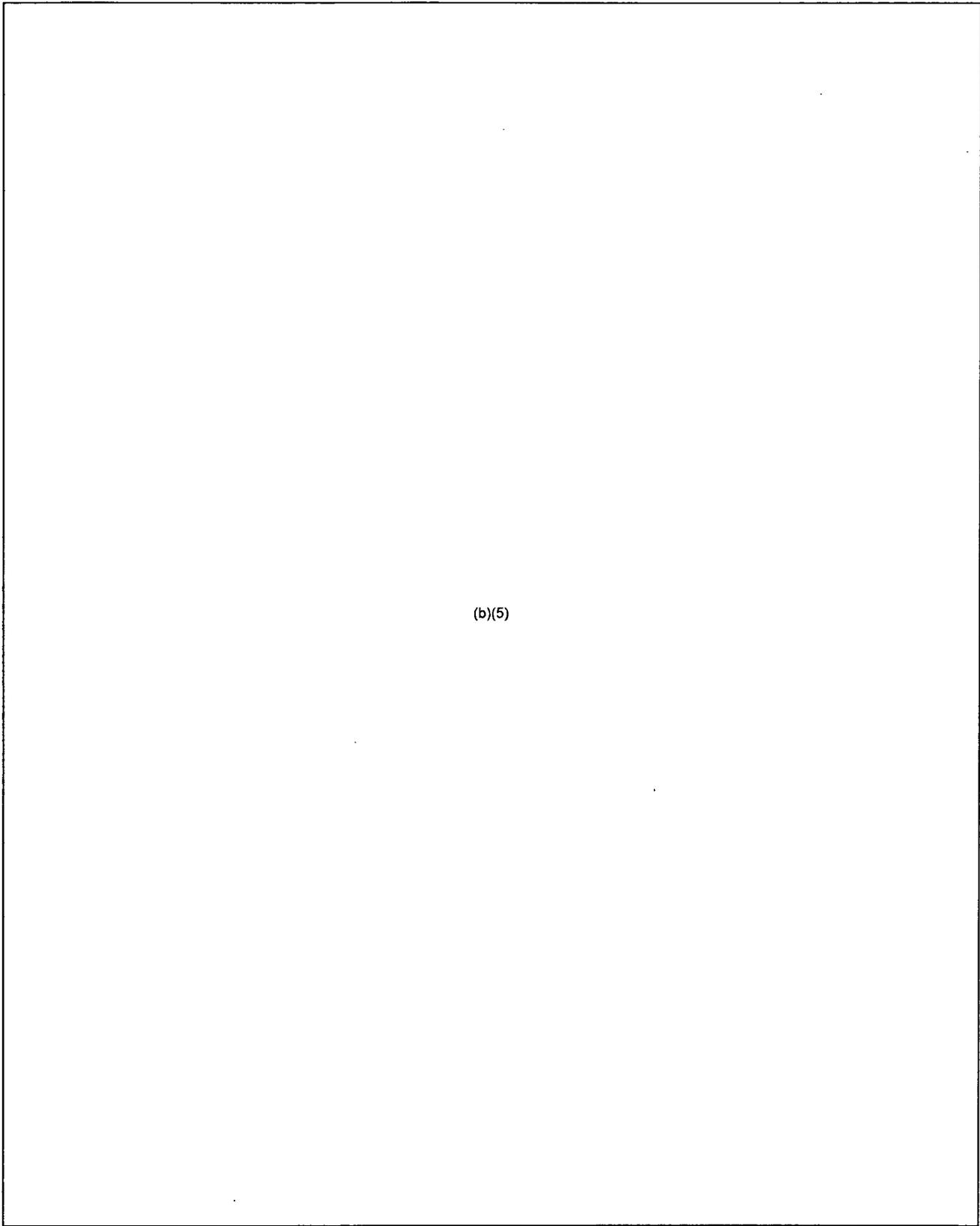
CONTENTS

(b)(5)



(b)(5)

(b)(5)



(b)(5)

(b)(5)

(b)(5)

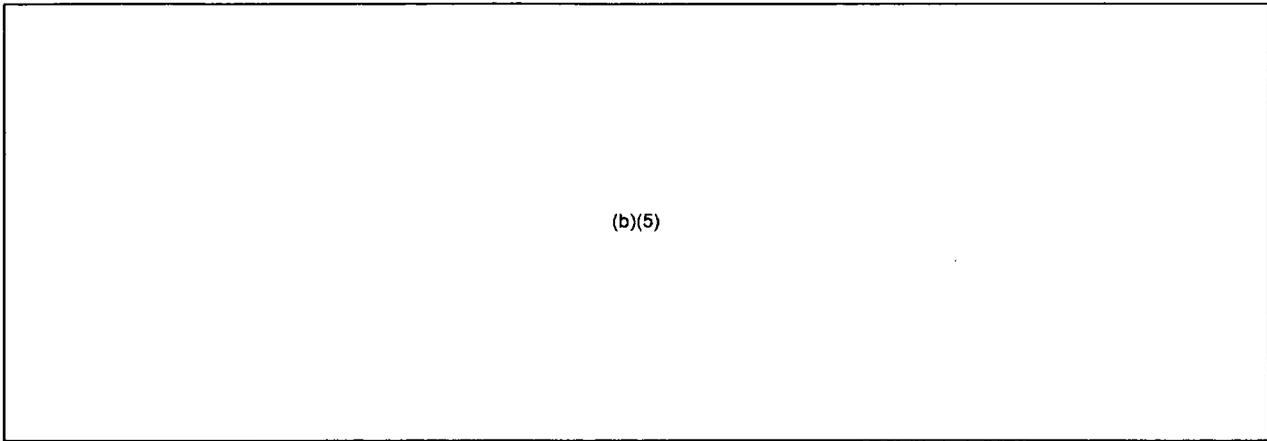
ACRONYMS

(b)(5)

Industry Performance of Relief Valves at U.S. Commercial Nuclear Power Plants through 2007

1. INTRODUCTION

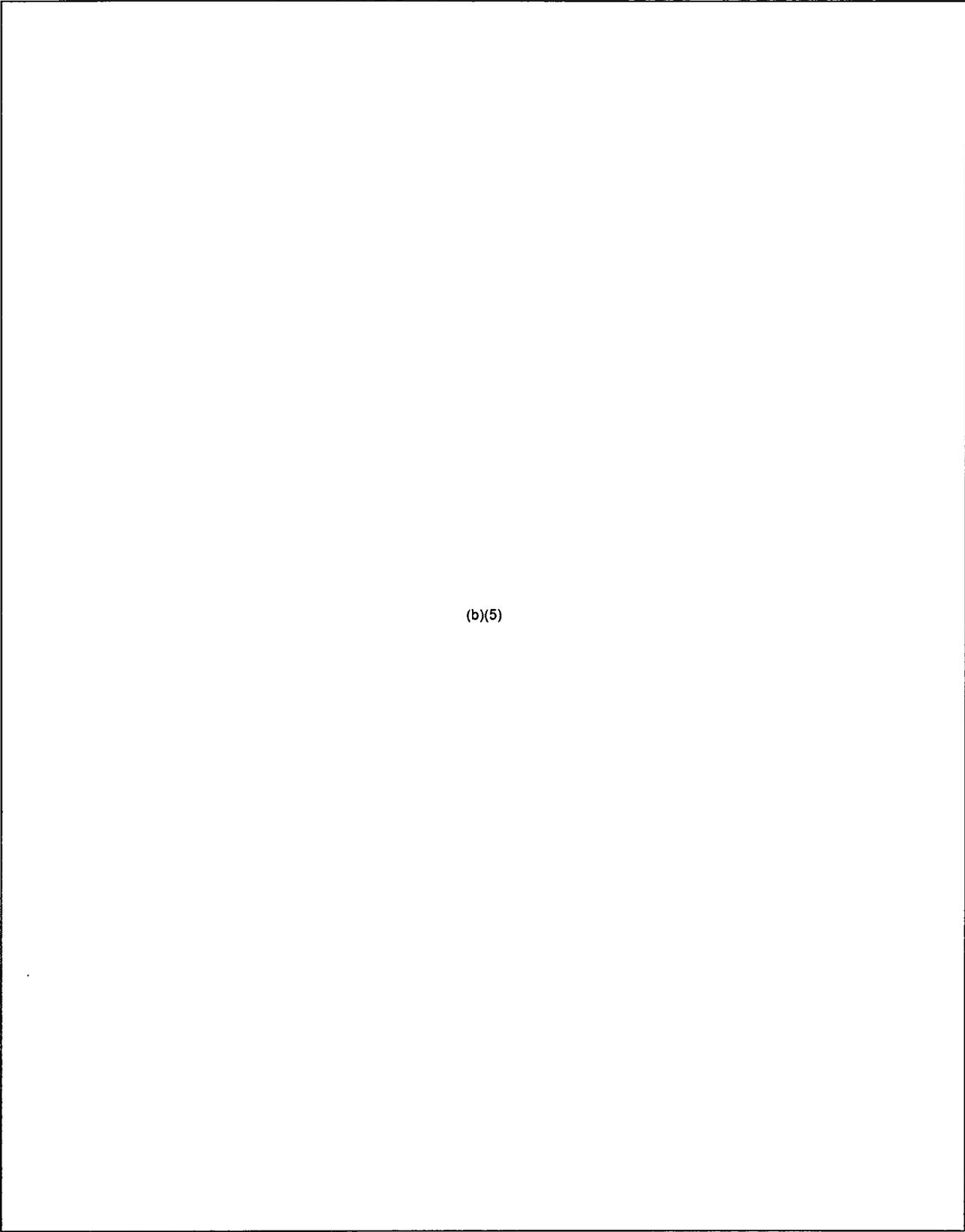
(b)(5)



(b)(5)

(b)(5)

(b)(5)



(b)(5)

(b)(5)

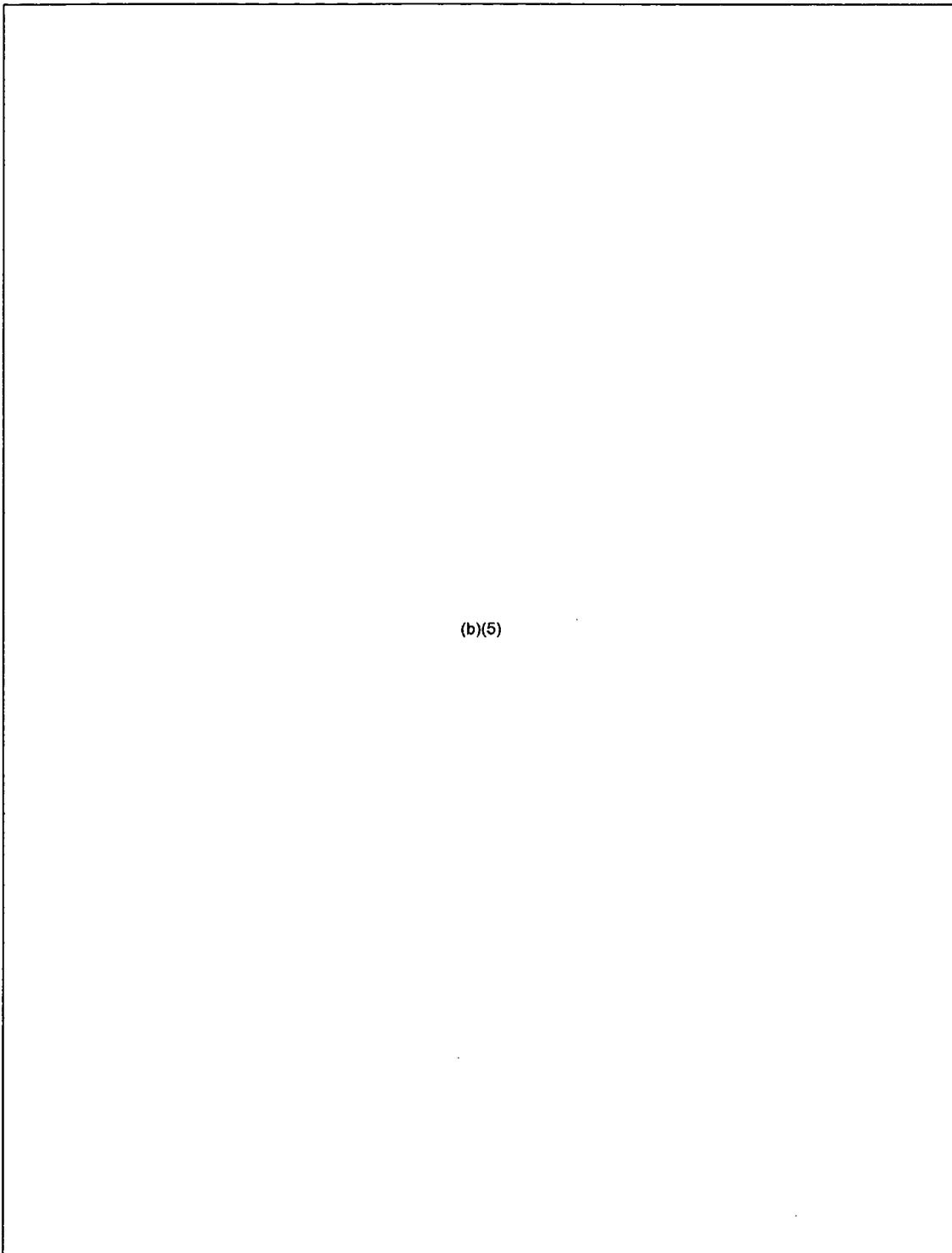
(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

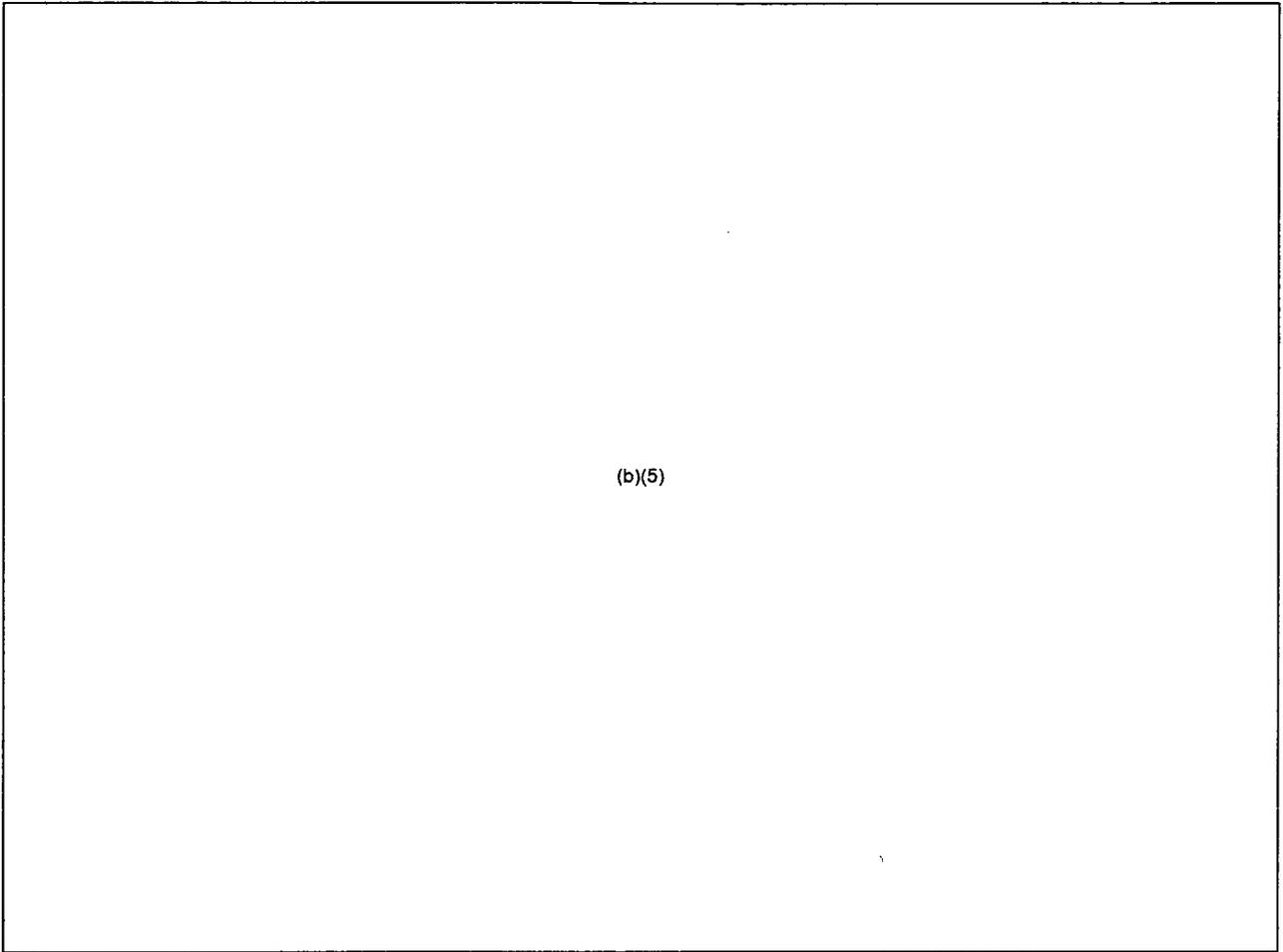


(b)(5)

(b)(5)

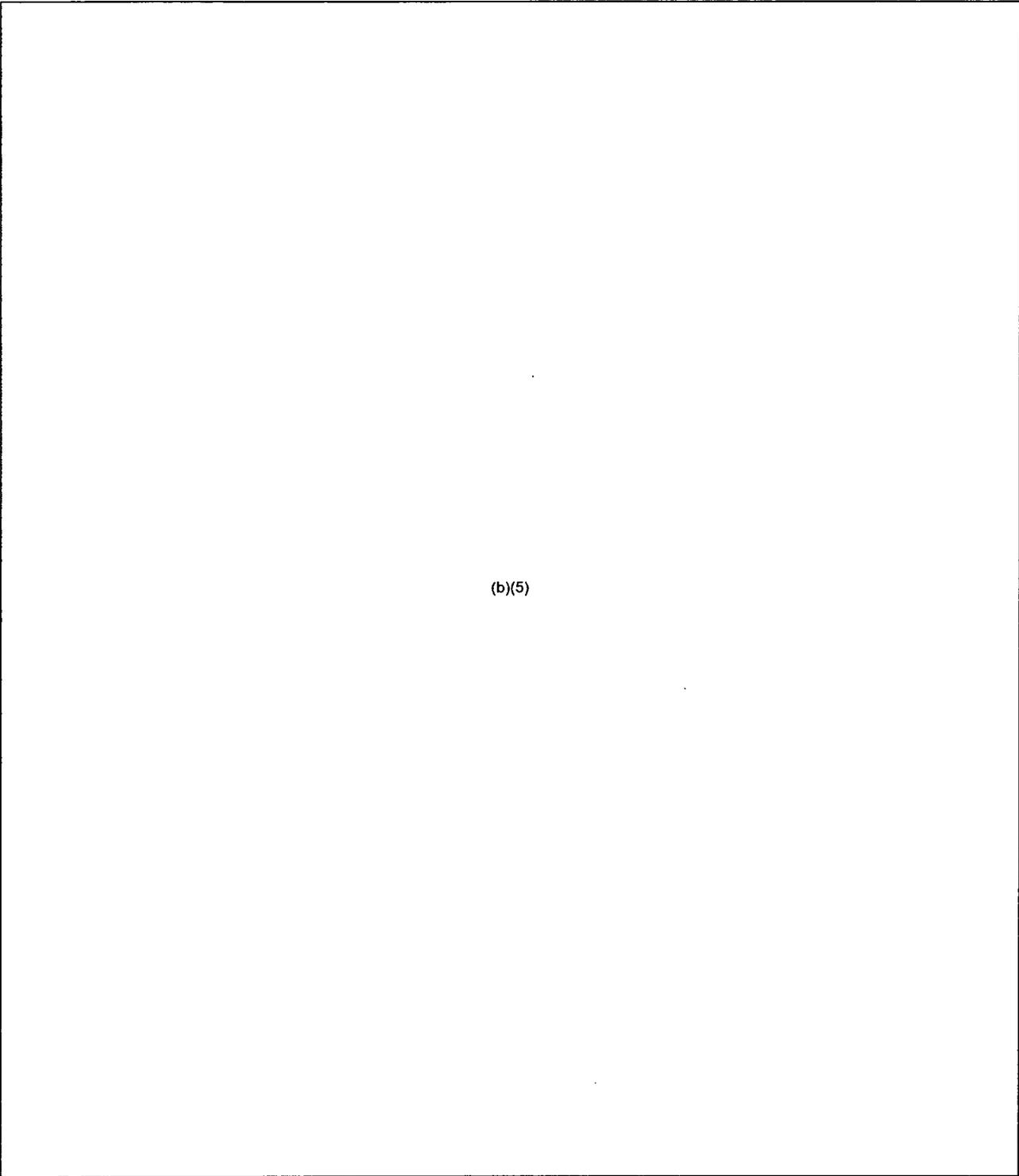
(b)(5)

(b)(5)

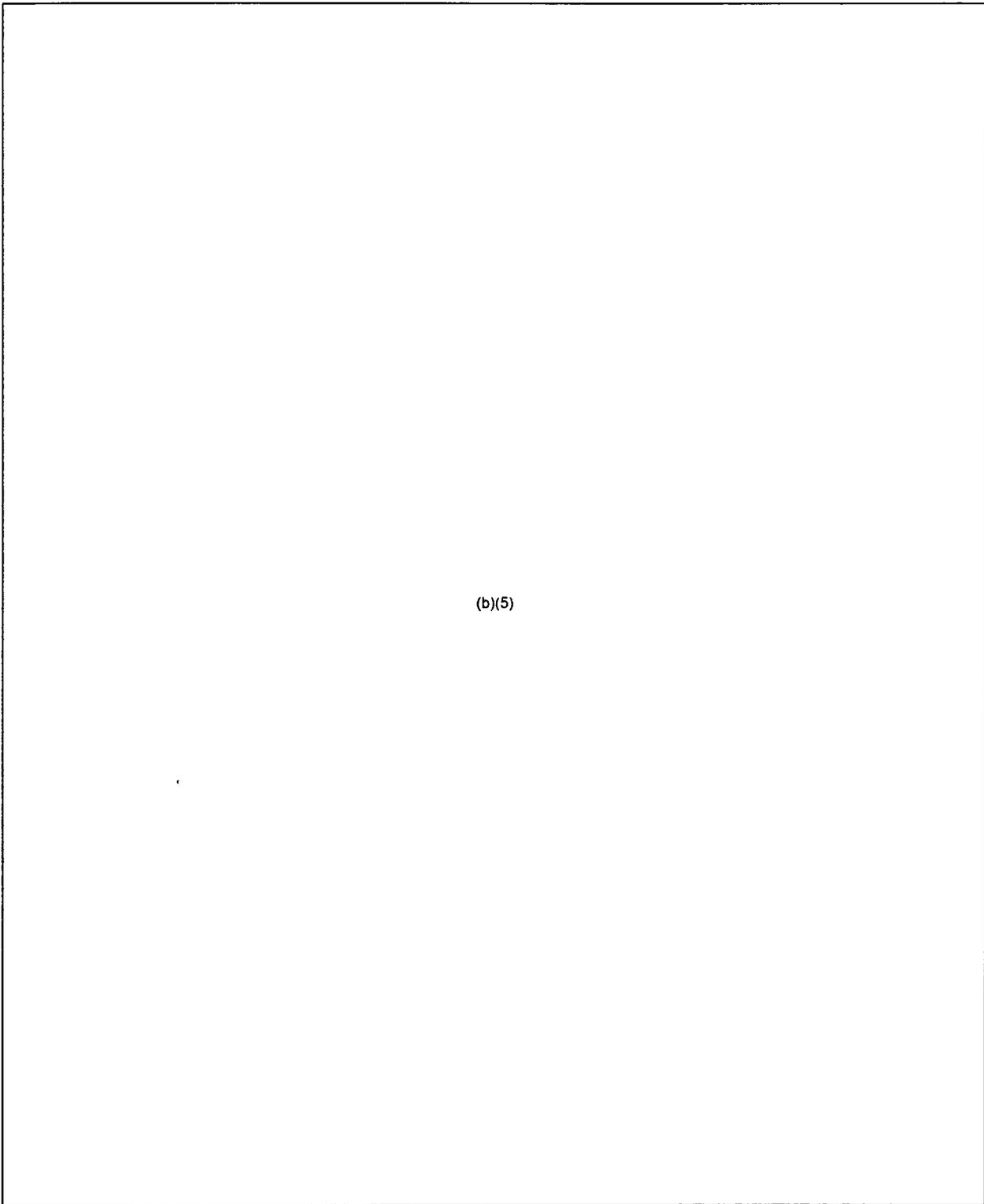


(b)(5)

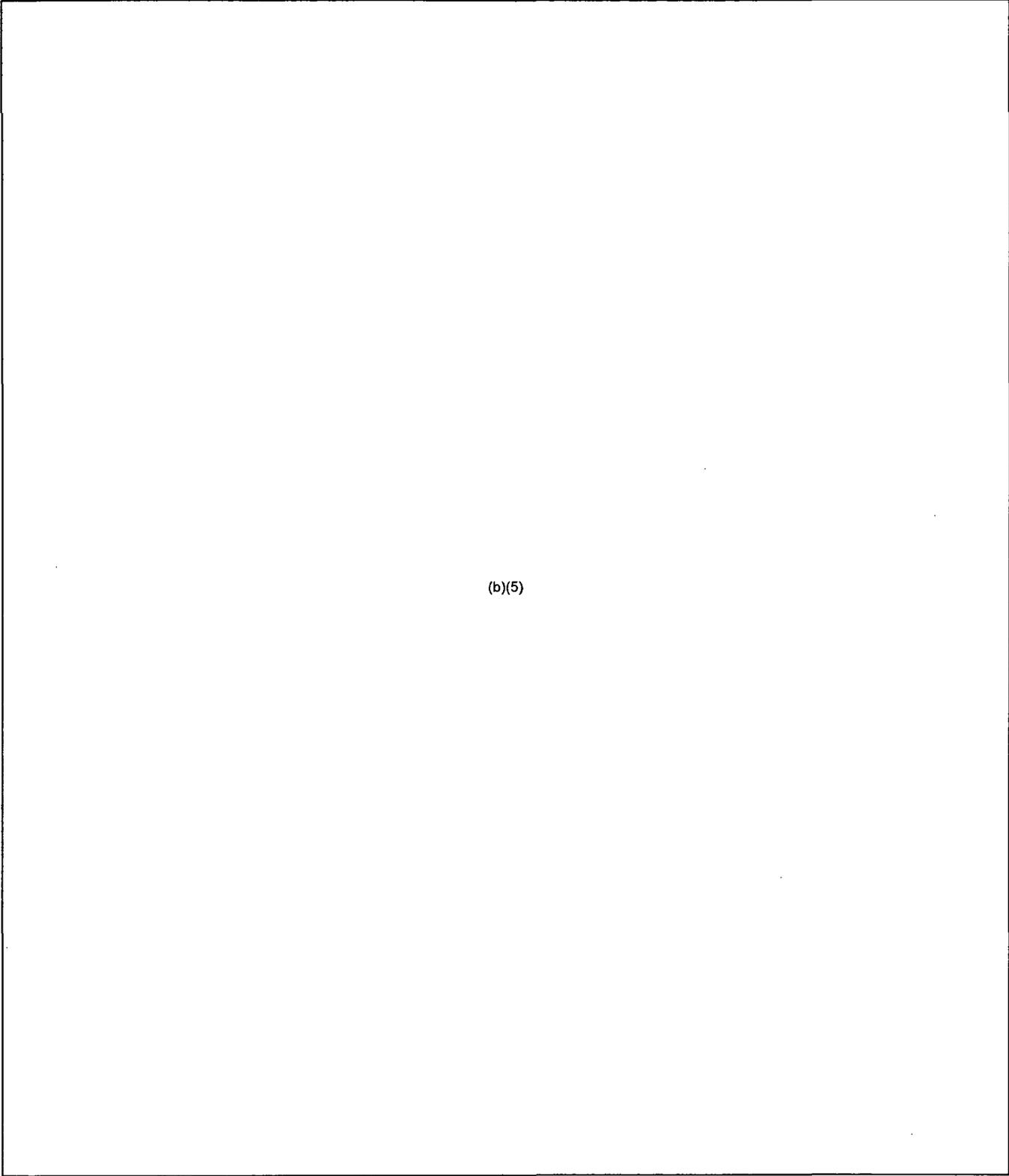
(b)(5)



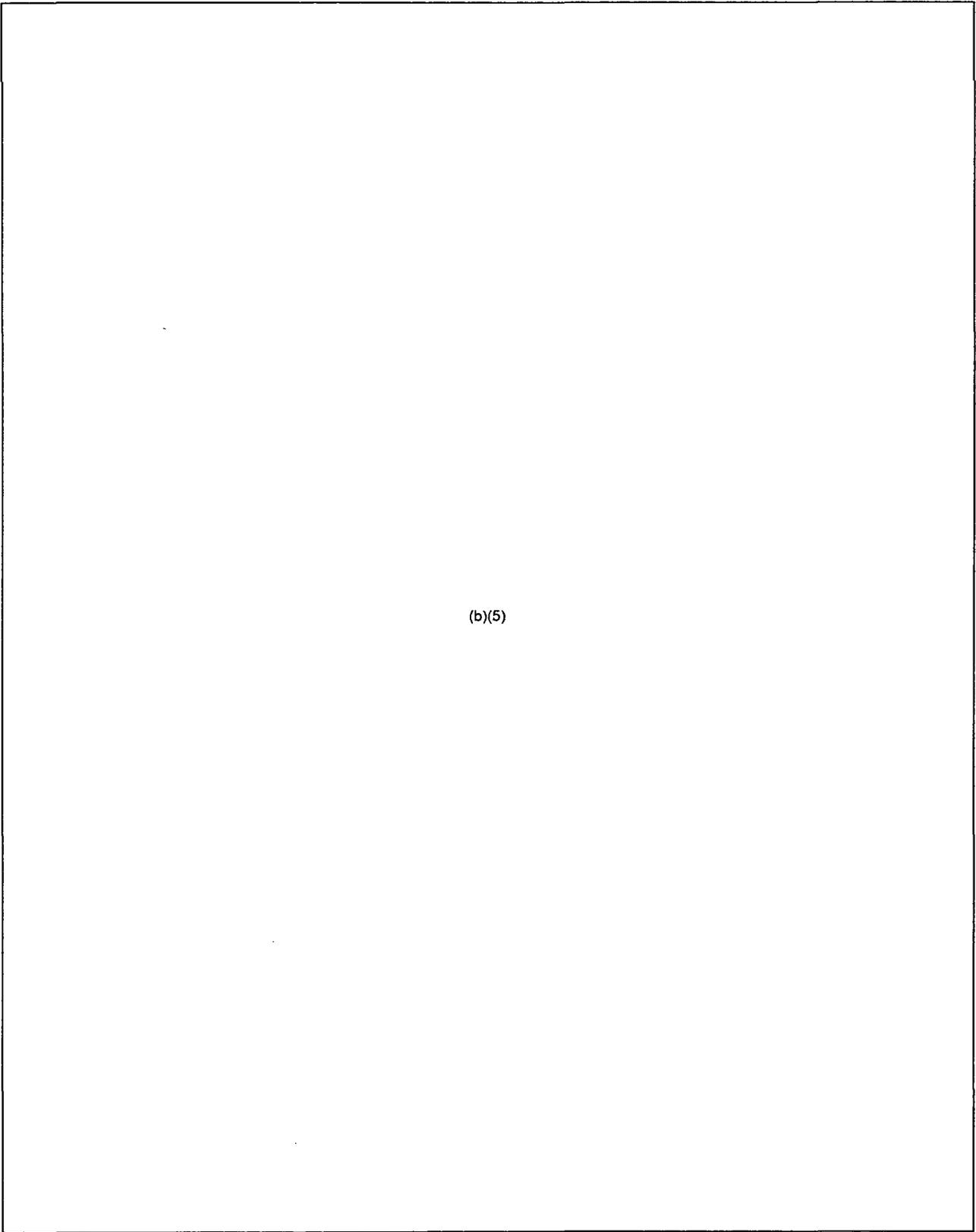
(b)(5)



(b)(5)



(b)(5)

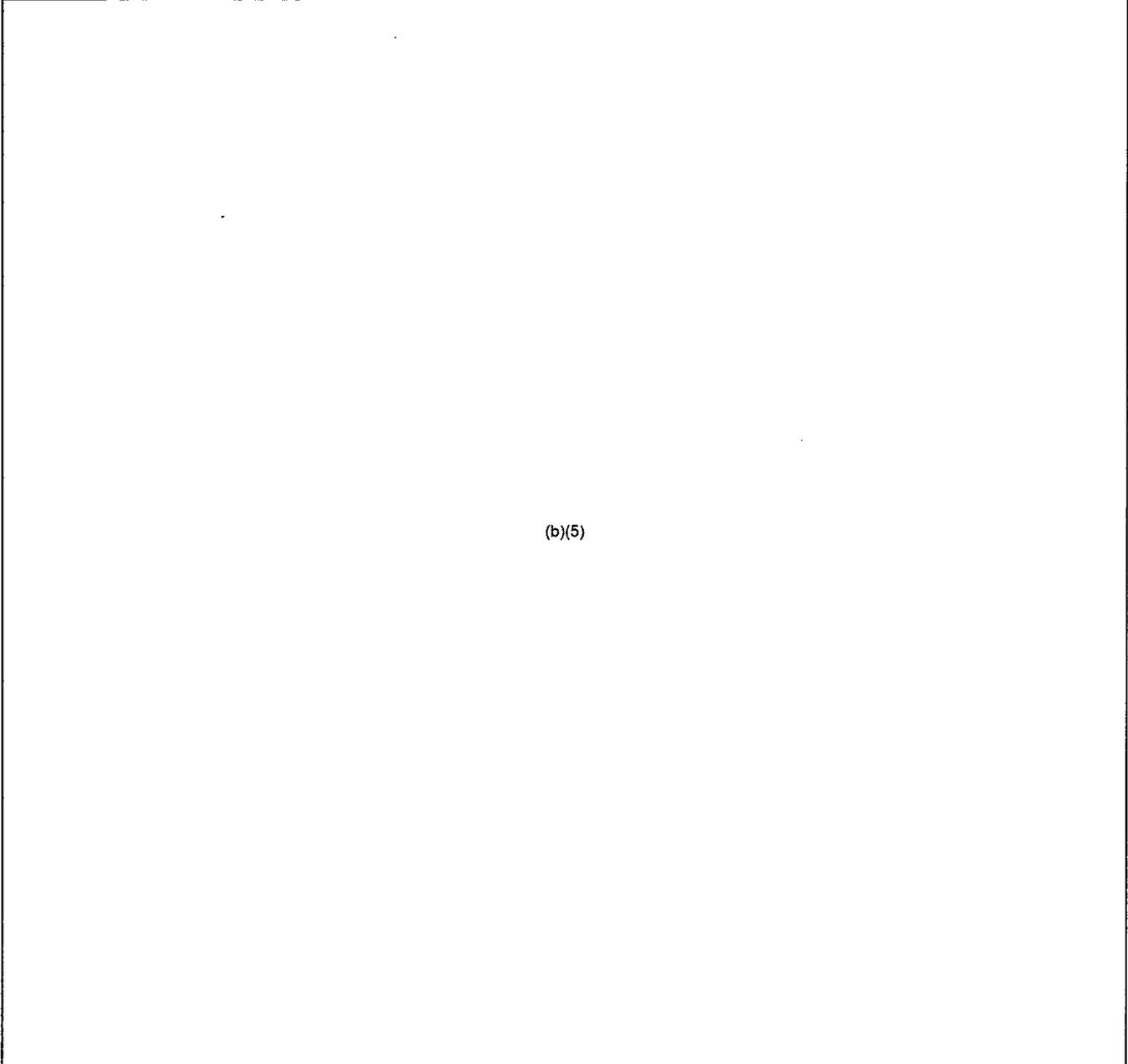


(b)(5)

(b)(5)

(b)(5)

(b)(5)

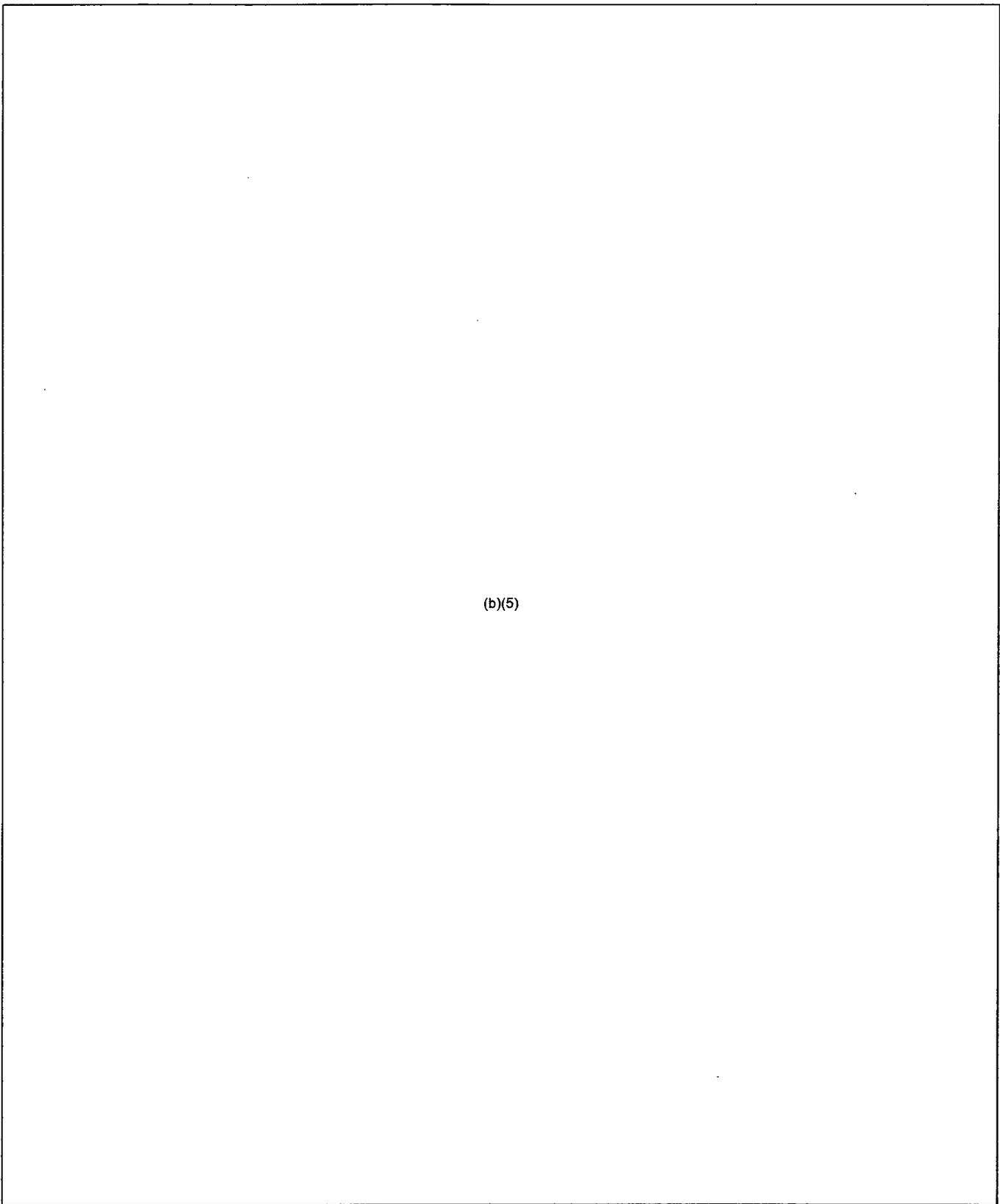


(b)(5)

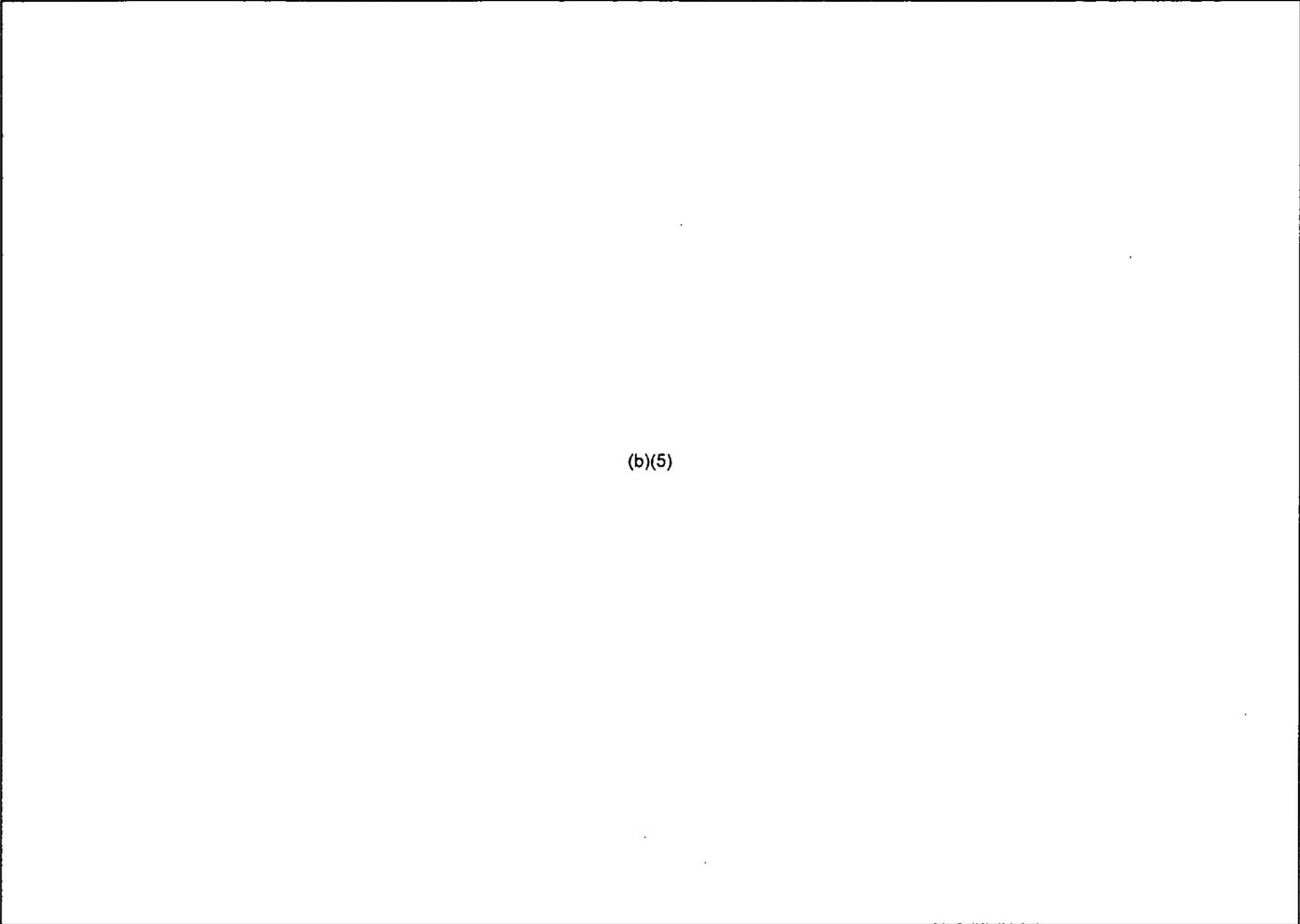
(b)(5)

(b)(5)

(b)(5)



(b)(5)



(b)(5)

(b)(5)

(b)(5)

(b)(5)

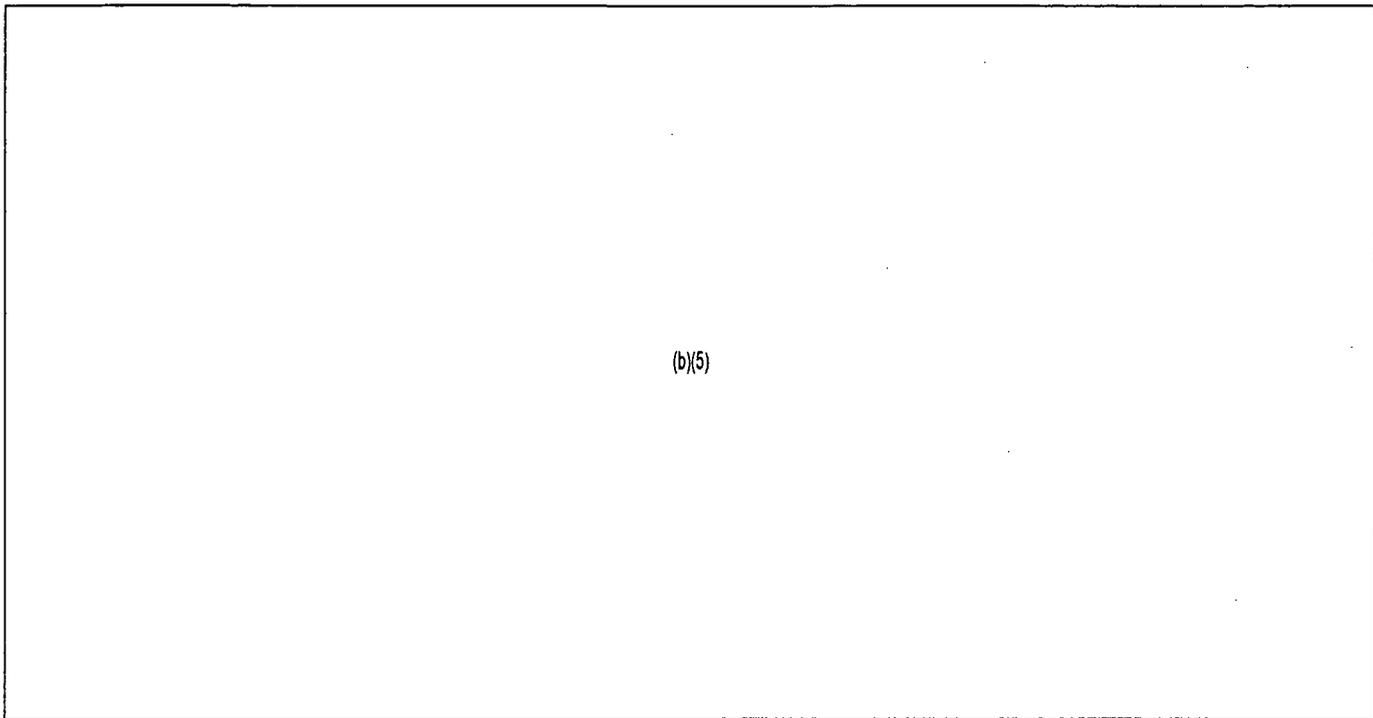
(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)



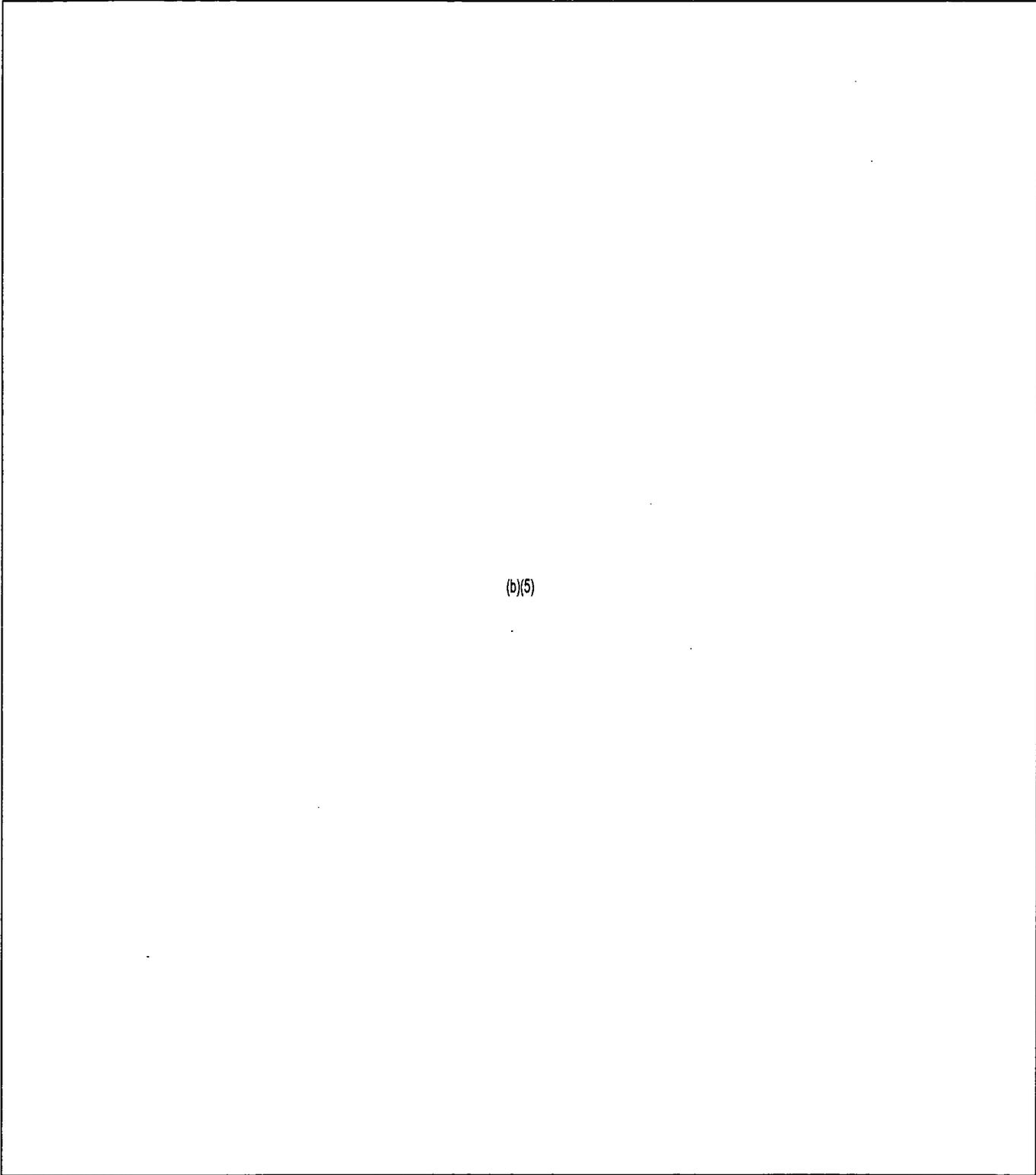
(b)(5)

(b)(5)

S 1

(b)(5)

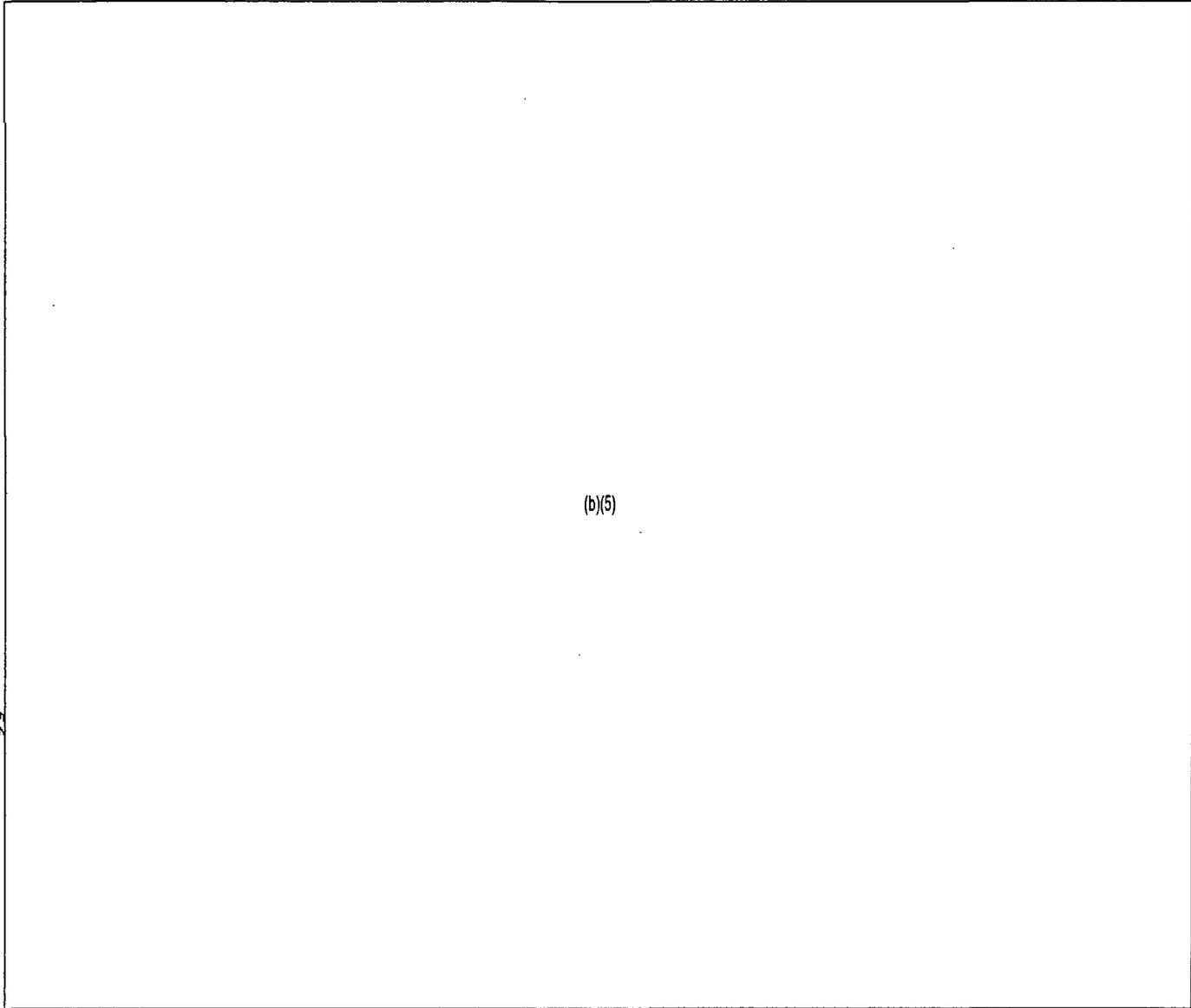
(b)(5)



(b)(5)

SS

(b)(5)

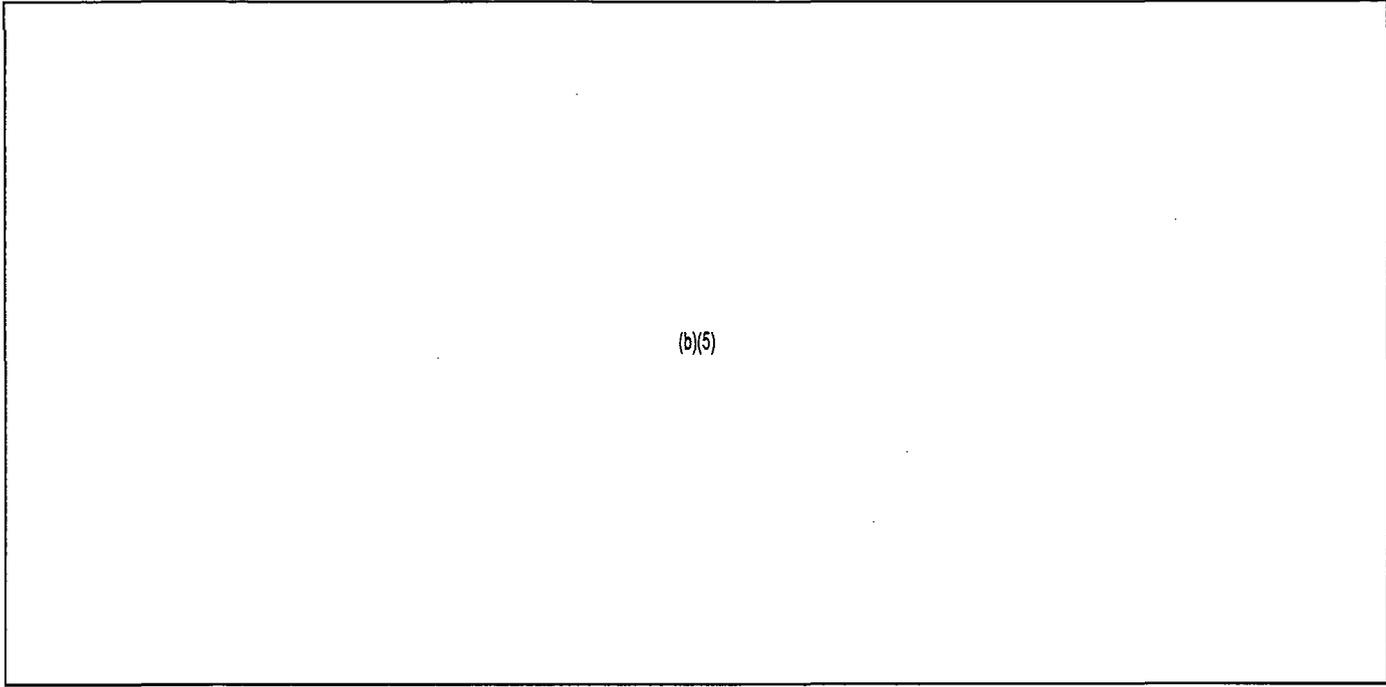


(b)(5)

(b)(5)

(b)(5)

(b)(5)



(b)(5)

(b)(5)

(b)(5)

(b)(5)

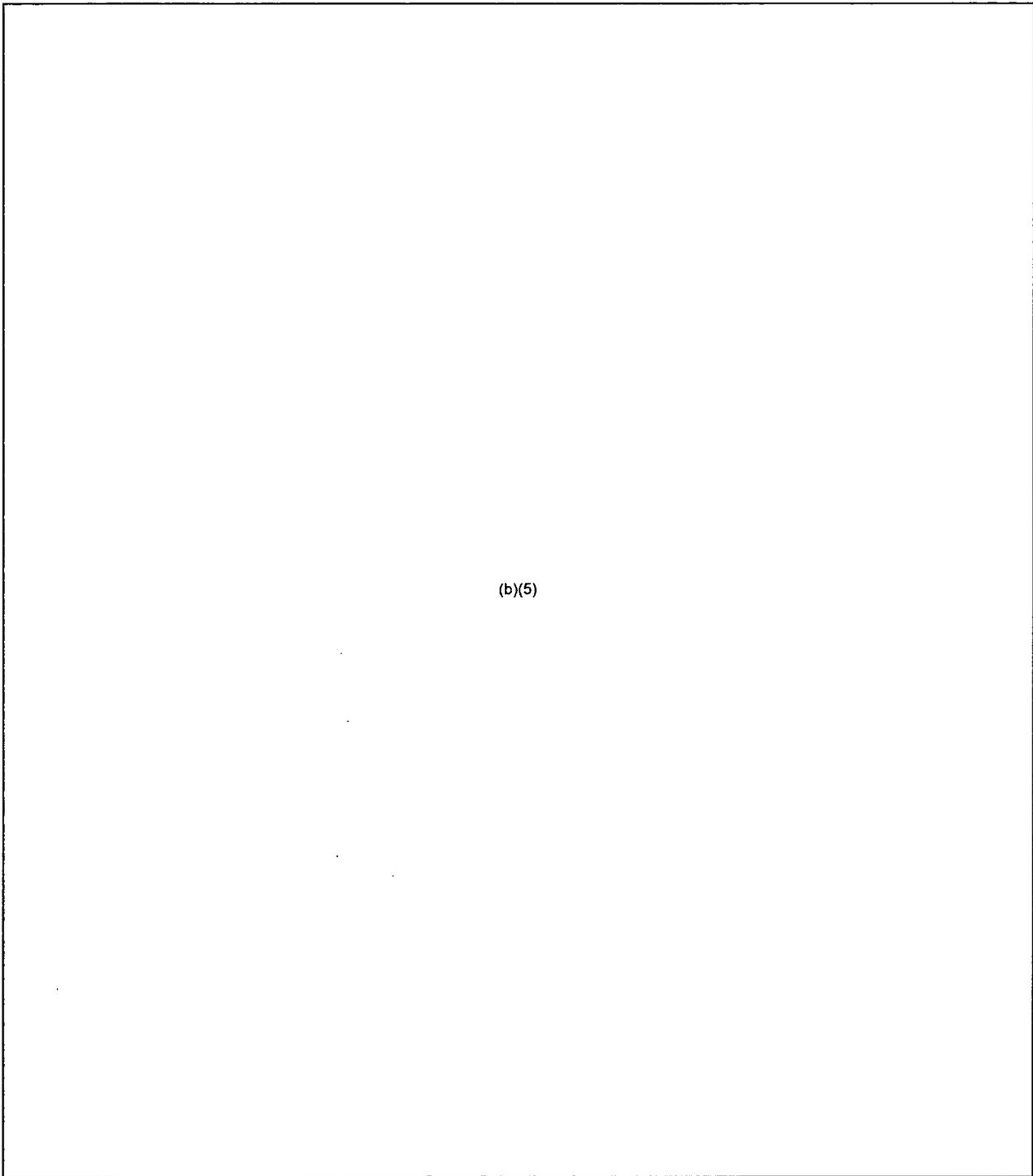
(b)(5)

(b)(5)

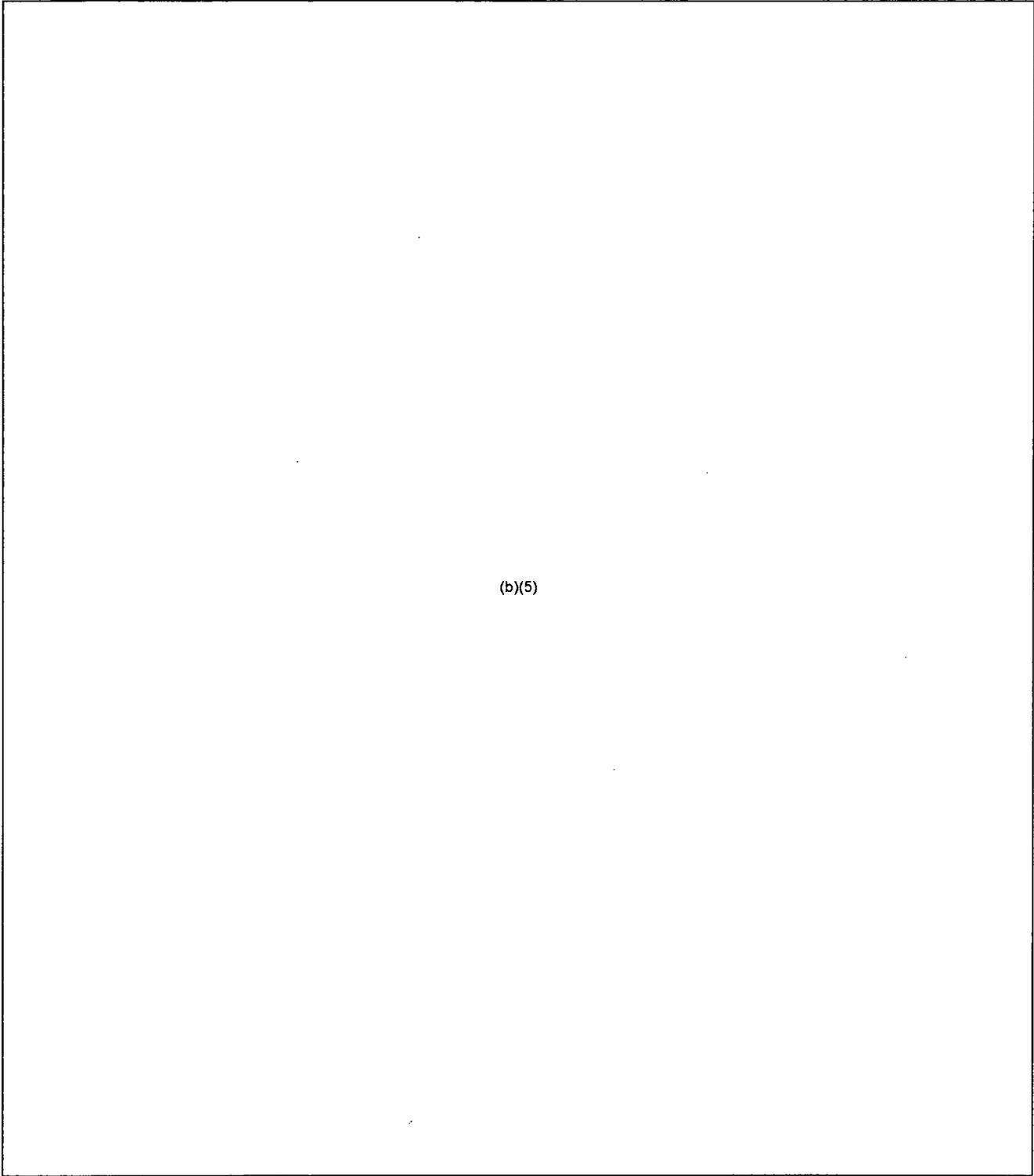
(b)(5)

(b)(5)

(b)(5)



(b)(5)



(b)(5)

(b)(5)

(b)(5)

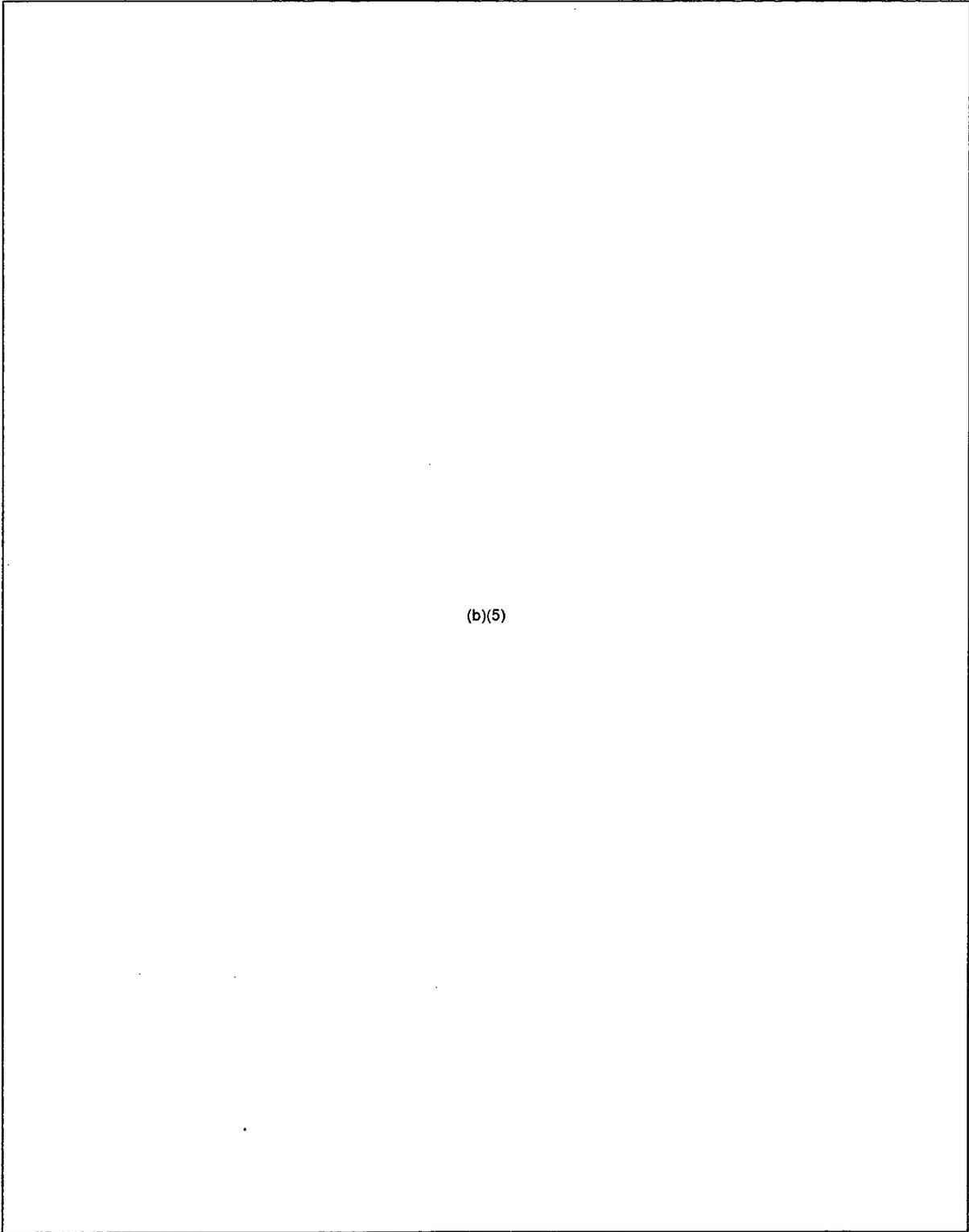
(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)



(b)(5)

(b)(5)

(b)(5)

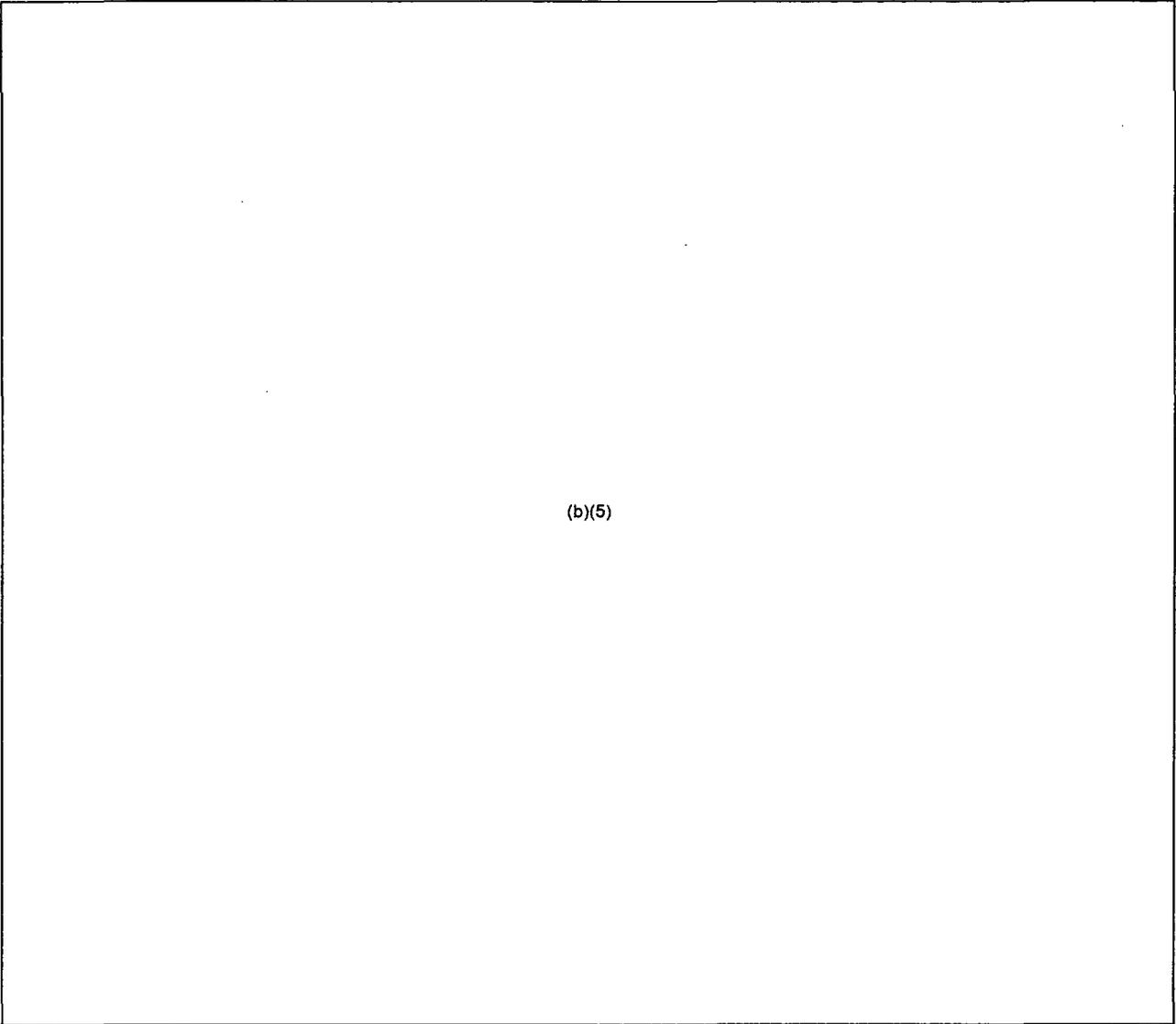
(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)



(b)(5)

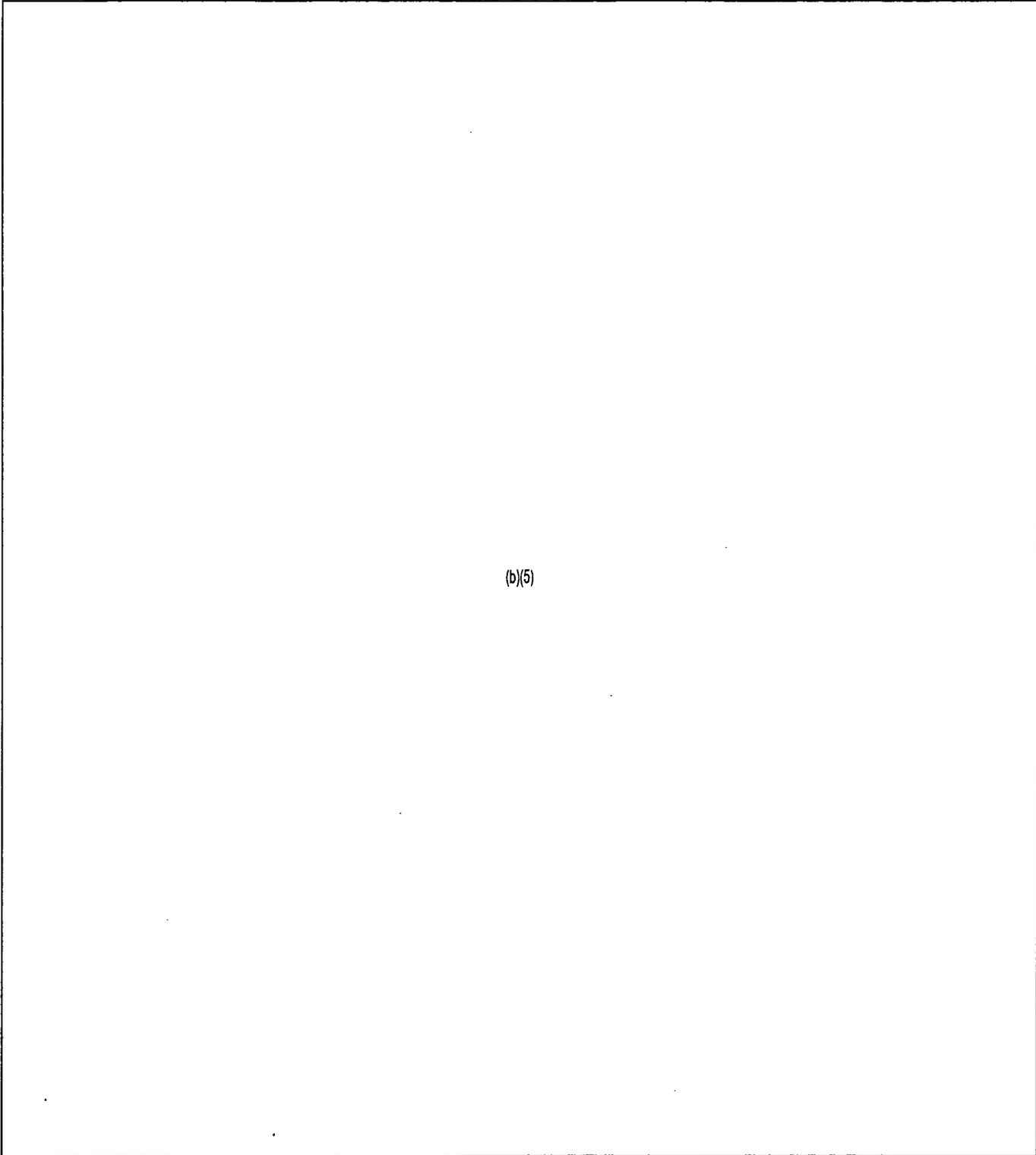
(b)(5)

(b)(5)

(b)(5)

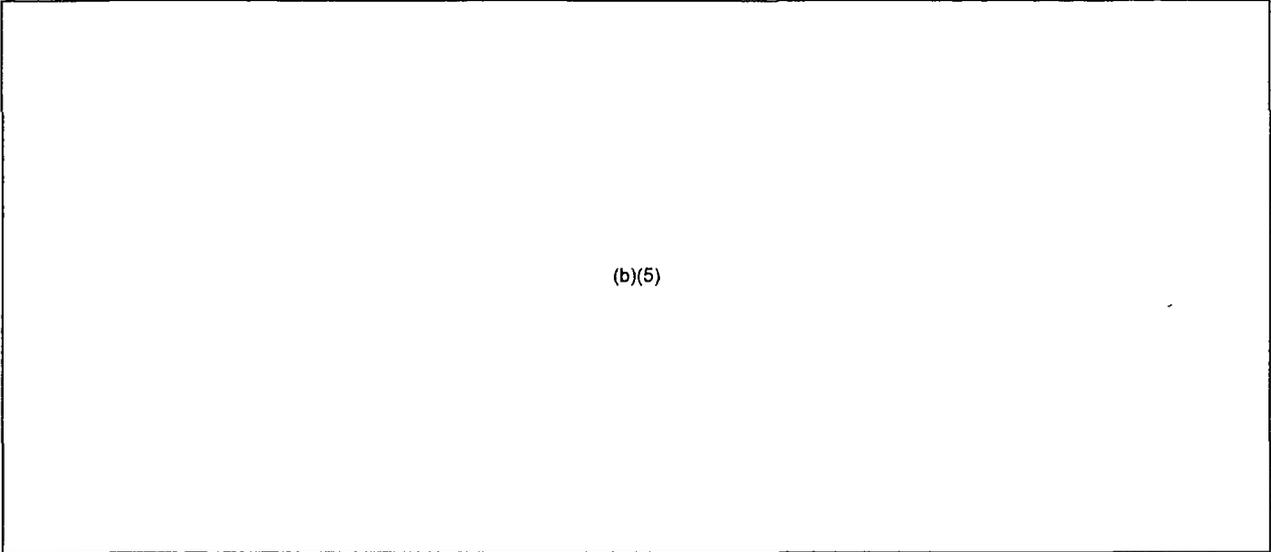
(b)(5)

(b)(5)

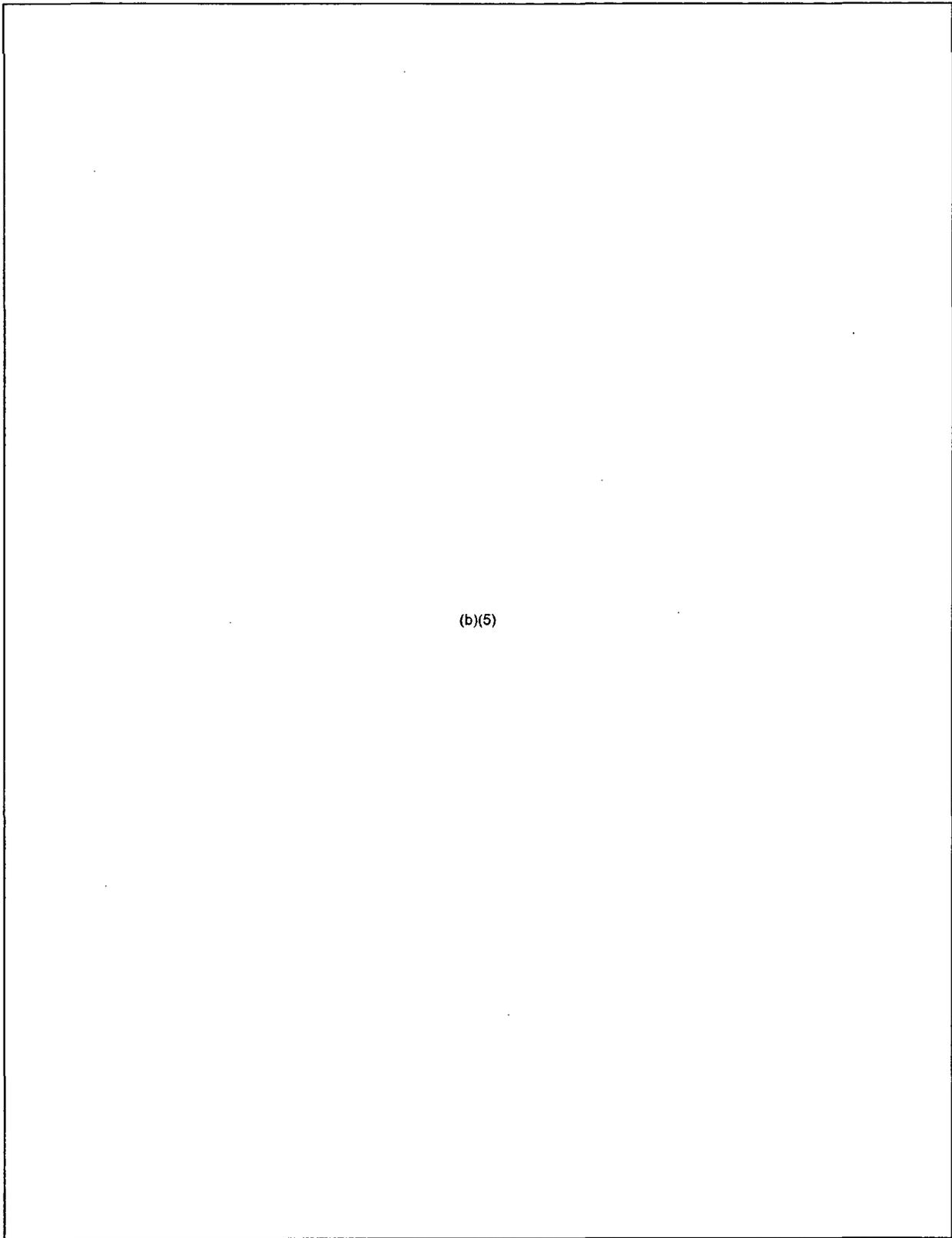


(b)(5)

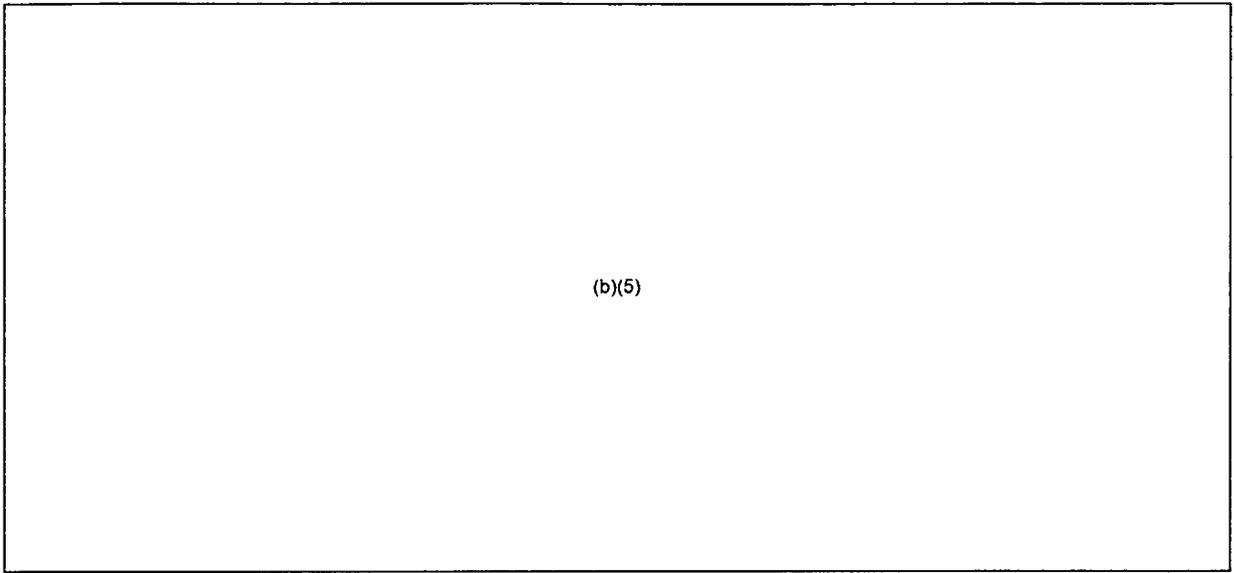
(b)(5)



(b)(5)

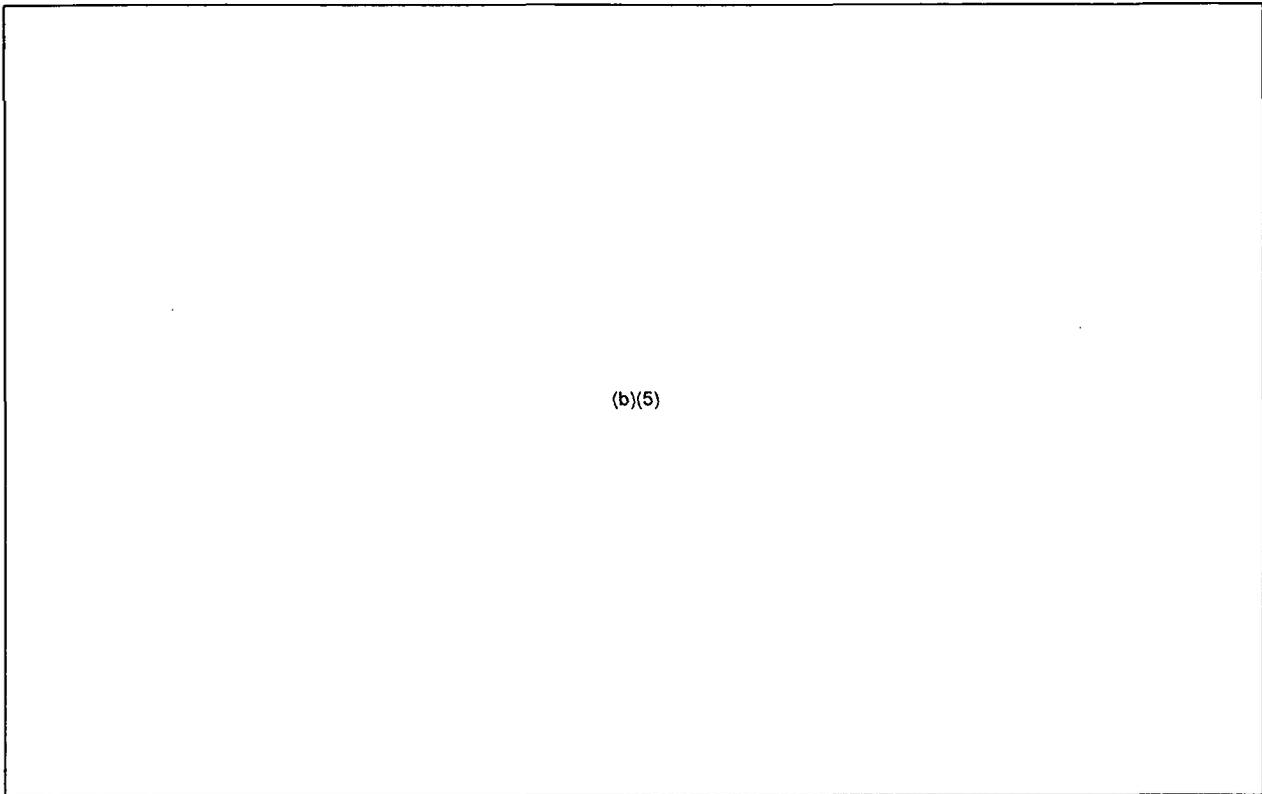


(b)(5)



(b)(5)

(b)(5)



(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

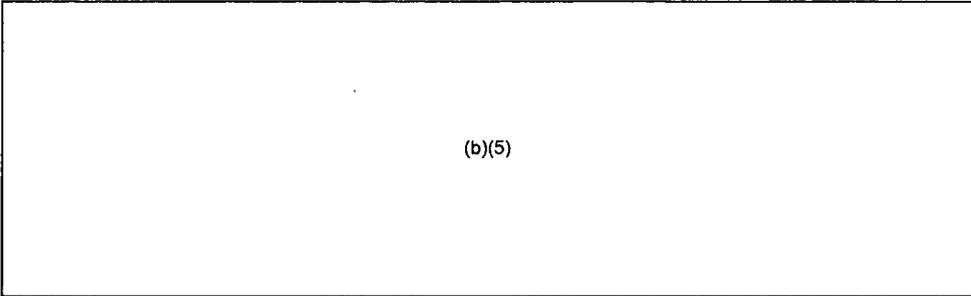
(b)(5)

(b)(5)

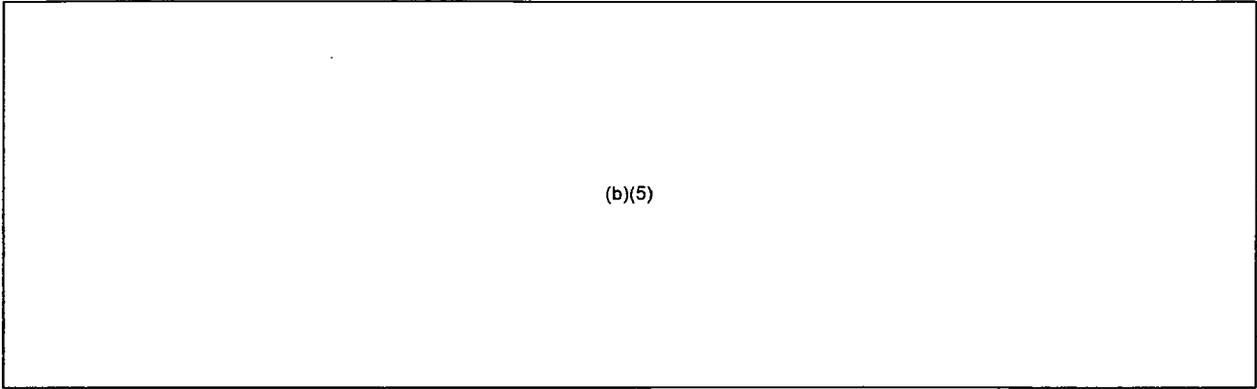
(b)(5)

(b)(5)

(b)(5)



(b)(5)



(b)(5)

B-4

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

B-10

(b)(5)

B-11

(b)(5)

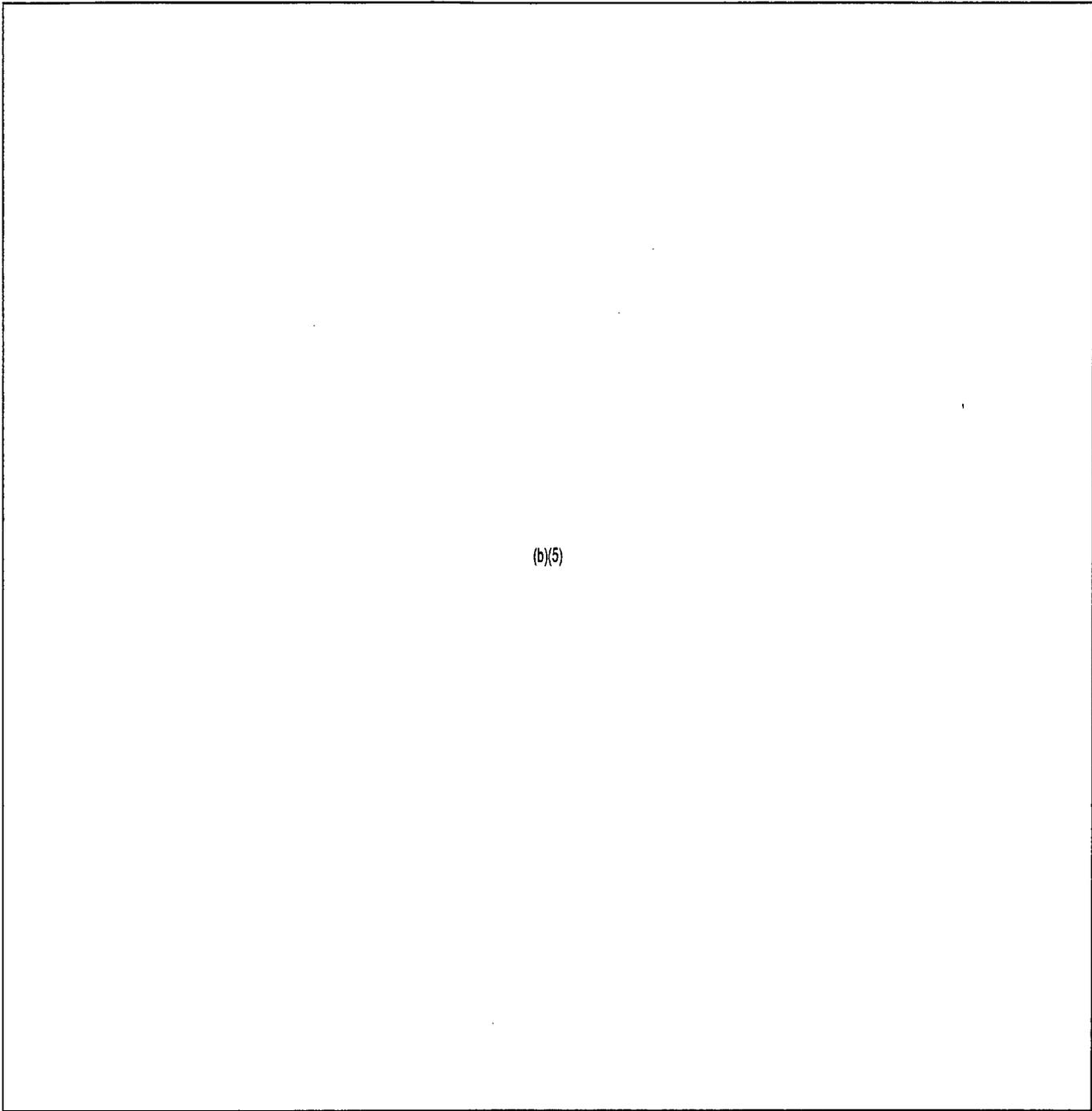
(b)(5)

B-13

(b)(5)

B-15

(b)(5)



(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

b7c

(b)(5)

(b)(5)

(b)(5)

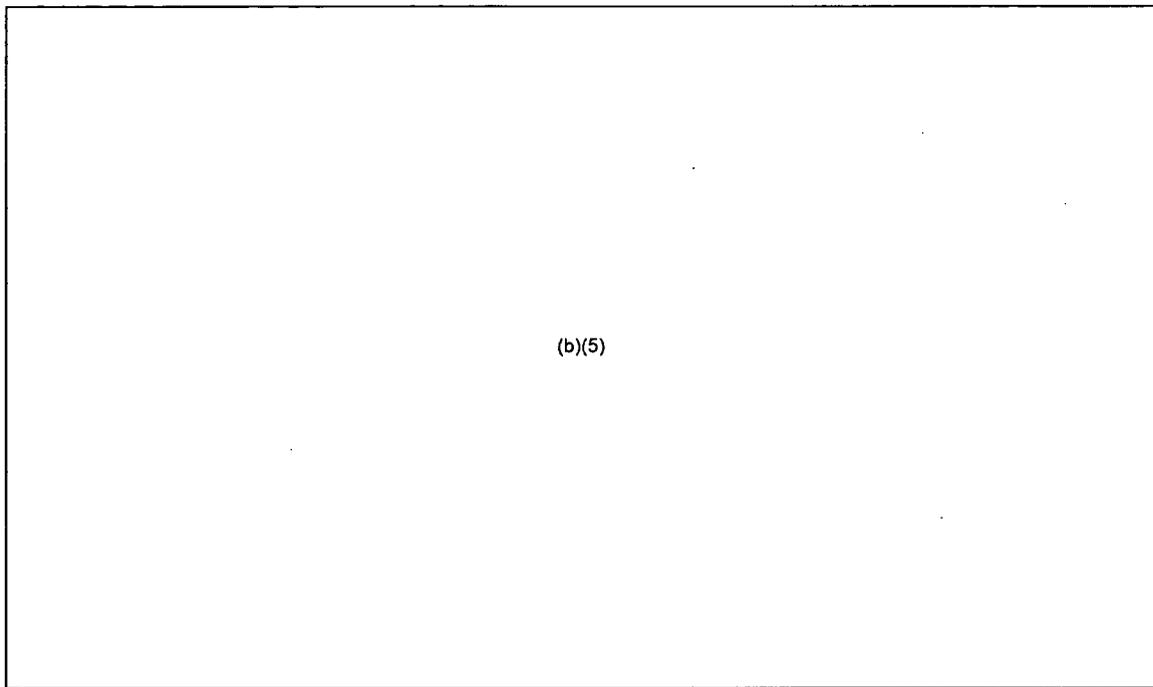
(b)(5)

B-25

(b)(5)

(b)(5)

(b)(5)



(b)(5)

C-4

(b)(5)

C-5

(b)(5)

(b)(5)

(b)(5)

C-8

(b)(5)

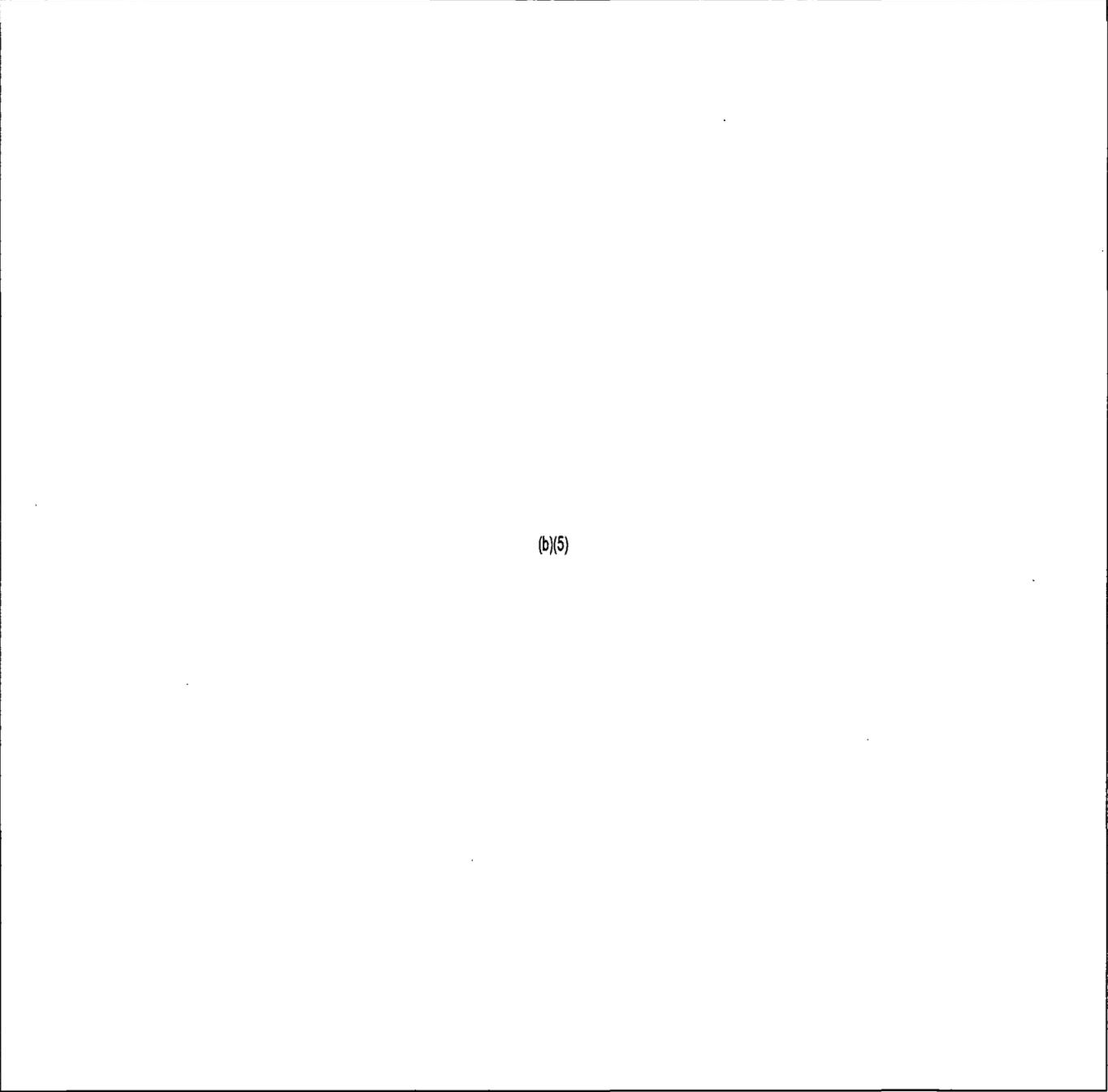
(b)(5)

C-10

(b)(5)

(b)(5)

(b)(5)



(b)(5)

C-14

(b)(5)

(b)(5)

(b)(5)

(b)(5)

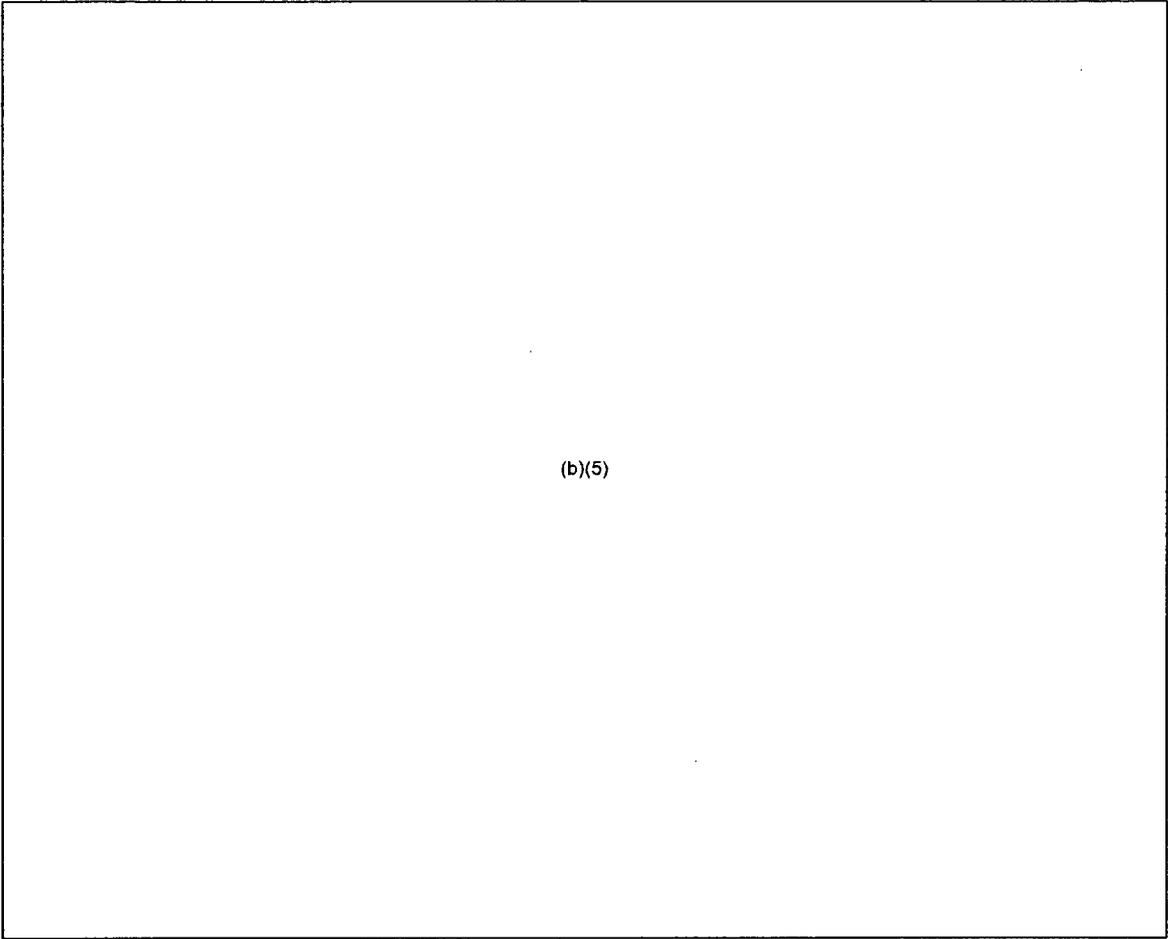
(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)



(b)(5)

(b)(5)

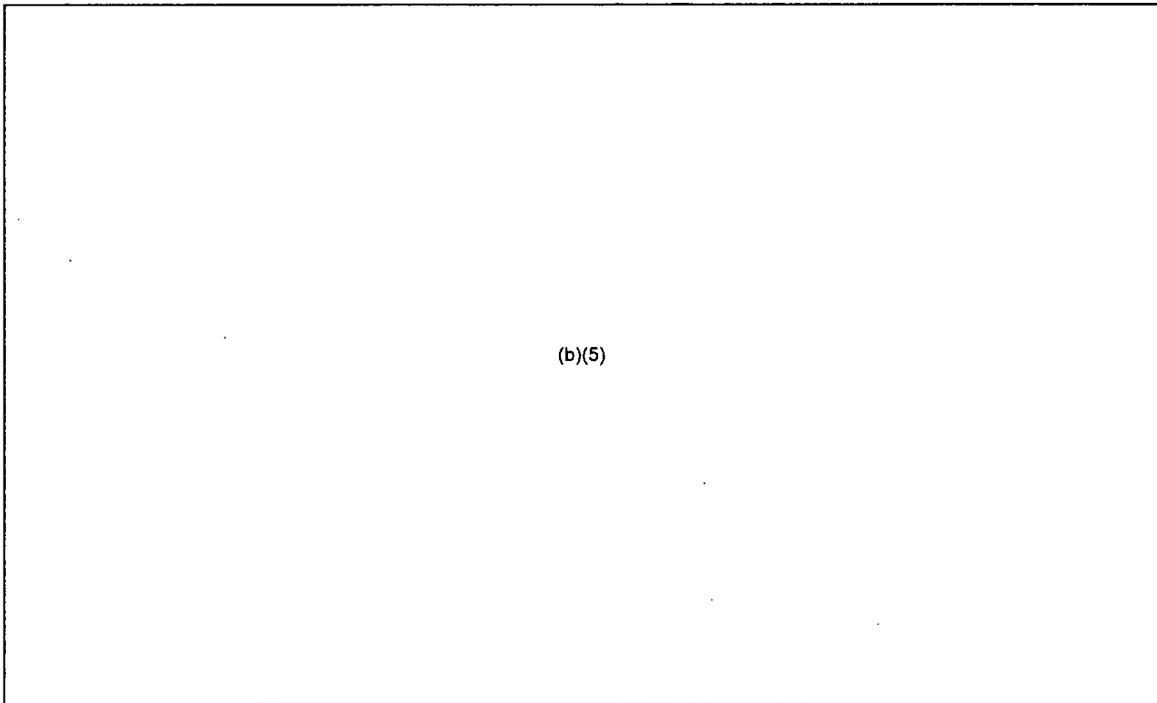
From: Cheok, Michael
To: Lee, Samson
Subject: FW: DRA & DCI APRIL CONTRACTUAL FUNDING DEFICIENCIES FOR 3RD QUARTER
Date: Wednesday, March 16, 2011 8:22:00 AM
Attachments: 3rd qtr funding shortfall for DRA AND DCI.xlsx
Importance: High

Do we have a meeting with the Contracts folk at 9?

From: Daniel, Richard
Sent: Wednesday, March 16, 2011 6:55 AM
To: Narick, Marianne
Cc: McLellan, Thomas; Collins, Jay; Naujock, Don; Circle, Jeff; Parillo, John; Lain, Paul; Iqbal, Naeem; Frumkin, Daniel; Cusumano, Victor; Heida, Bruce; Cheok, Michael; Rodriguez, Veronica; Lee, Samson; Harrison, Donnie; Lupold, Timothy; Mitchell, Matthew
Subject: DRA & DCI APRIL CONTRACTUAL FUNDING DEFICIENCIES FOR 3RD QUARTER
Importance: High

Marianne:

In answer to your questions:



Rick Daniel
NRR/PMDA/FMB/CMT
(301) 415-6319

AS/122

(b)(6)

From: [Rivera-Lugo, Richard](#)
To: [Case, Michael](#)
Subject: FW: Cuts in Op Reactors
Date: Wednesday, March 16, 2011 8:22:14 AM
Attachments: [Op Rx cuts.xlsx](#)

Mike,

See the message below from Ruth, after PMDA's meeting with NRR on Operating Reactors budget. She will send more detailed information today.

Richie

From: Spencer, Ruth
Sent: Tuesday, March 15, 2011 3:59 PM
To: Rivera-Lugo, Richard; Armstrong, Kenneth; Hudson, Daniel
Cc: Rini, Brett; Stout, Kathleen; Grancorvitz, Teresa
Subject: Cuts in Op Reactors

(b)(6)

Thanks,

AS/123

Ruth

Ruth Spencer, NRC/RES

Mailstop C6-D20M, Washington, DC 20555-0001

Phone 301 251 7921 FAX 301 251 7426

eMail: Ruth.Spencer@NRC.GOV

Office Location: C06-D19

(b)(6)

(b)(6)

(b)(6)

2
Matakas, Gina

From: Farrar, Karl
Sent: Wednesday, March 16, 2011 8:26 AM
To: Clifford, James; Lew, David; Roberts, Darrell; Dean, Bill; Baker, Pamela; Walker, Tracy; Lorson, Raymond; Collins, Daniel; Weerakkody, Sunil
Subject: FW: Retreat Files
Attachments: Review of Past Retreat (3).docx; Retreat Notes31511.docx

These are the retreat notes from yesterday. - Karl

From: Wilson, Peter
Sent: Wednesday, March 16, 2011 6:38 AM
To: Farrar, Karl
Subject: Retreat Files

Karl,

Here are the files from yesterday.

Pete

March 15, 2011

Agenda Item on Past Retreat (8:30 am - 9:15 am)

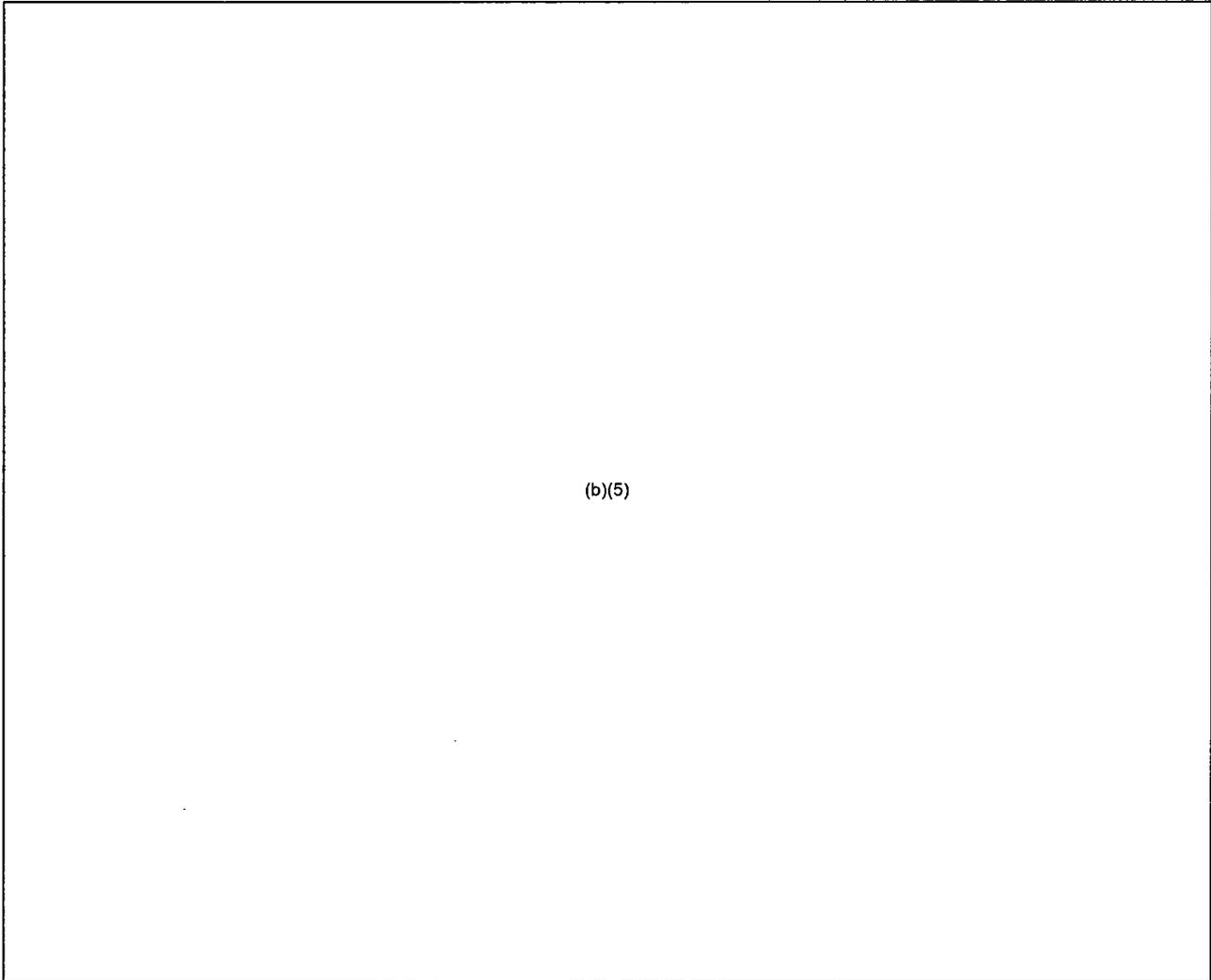
Objectives:

1. Update previously identified challenges, including adding or deleting
2. Provide updates list to September retreat prep team for consideration
3. Identify status of the actionable items from the June 18th memo and next steps
4. Align on the communications plan for staff access to decisions

ONGOING AND ANTICIPATED CHALLENGES

Senior Management Brainstorming 6/7/10:

- A. Ongoing – requiring no adjustment
- B. Watch Area – where clarity is needed to understand the success path
- C. Near term – where some adjustment may be needed to ensure success.
- D. Delete



(b)(5)

(b)(6)

(b)(6)

Retreat Notes

(b)(6)

Action

Develop a "key message" to articulate what OCWE means in day to day activities, using 50% design drawing as an example, to be discussed at all supervisors meeting and next all employee meeting. (DRM)

Servant Leadership

(b)(6)

Action

1. Discuss with retreat organizer the desire to have the next retreat present a refresher to the Servant Leadership model, work shop and/or illustration/map. (Raymond and Darrell)
2. illustrate/map what we do in day to day activities that support the Servant Leadership model. (Raymond and Darrell)
3. Review previous messaging from NRR and EDO to determine if these messages are applicable to Region I. (Raymond and Darrell)

Measures and Metrics

(b)(6)

(b)(6)

Empowerment and accountability: will be discussed in branch chief leadership discussion.

(b)(6)

Action

Develop a form, similar to form 591, that can be used by the staff to streamline self assessments reports by plugging in the required information for the self assessment and eliminating the need for continual edits of self-assessment report? (Tracy will pilot)

Work-life balance

(b)(6)

Telework for Supervisors and Impact on Access

(b)(6)

Blackberry

(b)(6)

Expectations for Division/Deputy Director position

(b)(6)

Personnel Selections

(b)(6)

Succession Planning

(b)(6)

Action

1. Division Directors, between now and the end of fiscal year, will develop an approach to branch chief assignments within the organization with the objective of continual development of the Branch Chiefs and enhance the organizational effectiveness and address succession planning.
2. Re-emphasize to branch chief the use of IDPs, leveraging temporary positions to develop staff, and to have, as part of the mid year process, a discussion with various senior staff regarding their interest in supervisory positions.

Senior Resident Inspector (SRI):

(b)(6)

Action

Determine how HQ has staffed senior ERC position. (DRS)

Key Challenges needing full Senior Management Alignment and Involvement

Dealing with the aftermath of the events in Japan:

Many question on the topic of "is nuclear power safe?"

End of Cycle Meetings will be the first opportunity for the public to pose questions regarding the Japan event to Region I staff. Do we cancel the meeting, who should attend, what type of outreach should we have, do we need more security?

There are potential resource issue that could impact the Region in the future.

Action

1. Unless directed by the program office not to do so, we should go forward with the End of Cycle meetings, but we need to develop a strategy for effectively conducting these meetings. We should reach out to HQ individuals developing talking points on the Japan event for input to End of Cycle meetings. (DRP)
2. Conduct a meeting with staff and discuss the Japan event at a high level on Wednesday. (Bill)
3. Coordinate with HQ on plans to establish a team to answer the mail on the Japan event. (DRP)
4. Coordinate with HQ on re-visiting current communication plans on topics such as GI 199 and tsunamis to assure that they consider recent events in Japan. (DRP)

New Building:

(b)(6)

Action

1. Implementation of Outlook Scheduler. (Pete and Tracy)
2. Eliminate Wednesday and Friday 8:45 am. meeting. (Bill)
3. Inventory current suite of periodic meetings to see if there are other meetings that can be reduced. (All)

From: Peters, Sean
To: Stout, Kathleen
Cc: Coyne, Kevin; Hudson, Daniel; Ibarra, Jose; Spencer, Ruth
Subject: RE: Action: need to know how to reflect the \$200K reduction to HRA projects...
Date: Wednesday, March 16, 2011 8:39:27 AM

Let's put:

(b)(5)

From: Stout, Kathleen
Sent: Tuesday, March 15, 2011 5:10 PM
To: Peters, Sean
Cc: Coyne, Kevin; Hudson, Daniel; Ibarra, Jose; Spencer, Ruth
Subject: Action: need to know how to reflect the \$200K reduction to HRA projects...

Sean,

(b)(5)

Thanks,

Kathleen

Kathleen Stout
RES/PMDA/FPMB
tel: 301-251-7941

From: Stout, Kathleen
Sent: Tuesday, March 15, 2011 4:56 PM
To: Peters, Sean
Cc: Coyne, Kevin; Hudson, Daniel; Ibarra, Jose; Spencer, Ruth
Subject: RE: Feedback from FSME on the HRA budget/work for FY 2013

I'm hoping so. I'll follow up w/ my counterpart there.

From: Peters, Sean
Sent: Tuesday, March 15, 2011 4:55 PM
To: Stout, Kathleen
Cc: Coyne, Kevin; Hudson, Daniel; Ibarra, Jose; Spencer, Ruth
Subject: RE: Feedback from FSME on the HRA budget/work for FY 2013

Thanks Kathleen!

AS/125

(b)(5)

Sean

From: Stout, Kathleen

Sent: Tuesday, March 15, 2011 4:51 PM

To: Peters, Sean

Cc: Coyne, Kevin; Hudson, Daniel; Ibarra, Jose; Spencer, Ruth

Subject: Feedback from FSME on the HRA budget/work for FY 2013

Sean,

(b)(5)

Kathleen

Kathleen Stout

RES/PMDA/FPMB

tel: 301-251-7941

From: Lee, Samson
To: Daniel, Richard
Cc: Cheok, Michael
Subject: RE: DRA & DCI APRIL CONTRACTUAL FUNDING DEFICIENCIES FOR 3RD QUARTER
Date: Wednesday, March 16, 2011 8:41:34 AM

Rick:

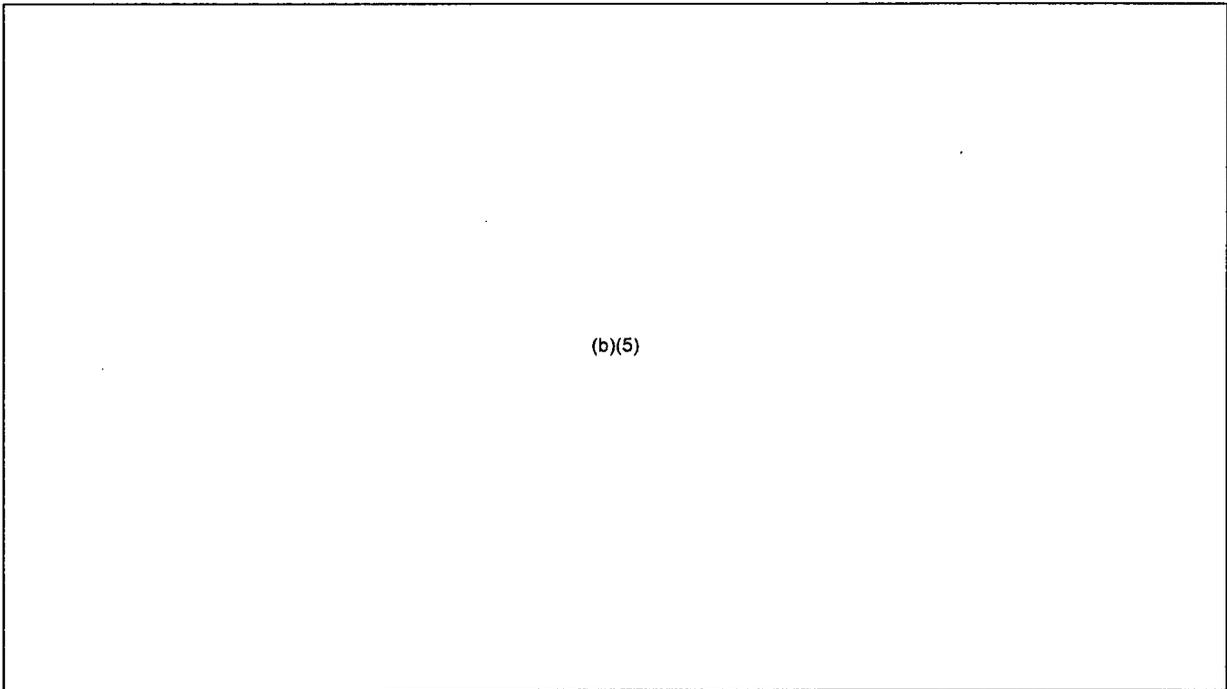
I don't see this meeting on the DRA calendar at 9 today. Mike goes to the 8:45 LT. If you like, we can meet in my office O-10E14 at 9.

Thanks,
Sam

From: Daniel, Richard
Sent: Wednesday, March 16, 2011 6:55 AM
To: Narick, Marianne
Cc: McLellan, Thomas; Collins, Jay; Naujock, Don; Circle, Jeff; Parillo, John; Lain, Paul; Iqbal, Naeem; Frumkin, Daniel; Cusumano, Victor; Heida, Bruce; Cheok, Michael; Rodriguez, Veronica; Lee, Samson; Harrison, Donnie; Lupold, Timothy; Mitchell, Matthew
Subject: DRA & DCI APRIL CONTRACTUAL FUNDING DEFICIENCIES FOR 3RD QUARTER
Importance: High

Marianne:

In answer to your questions:



Rick Daniel
NRR/PMDA/FMB/CMT
(301) 415-6319

AS/126

From: [Siu, Nathan](#)
To: [Coyne, Kevin](#); [Wood, Jeffery](#)
Cc: [Helton, Donald](#)
Subject: DOE Plenary talk at PSA 2011
Date: Wednesday, March 16, 2011 8:52:05 AM

John Kelly mentioned a PRA workshop for SMRs on April 26-27. Also said that TVA has begun pre-certification talks with NRC for SMR(s) on Clinch River. In hallway conversation he noted presence of only 1 Sandian and wasn't happy.

Sent from NRC BlackBerry
Nathan Siu

(b)(6)

AS/127

From: Coyne, Kevin
To: Gibson, Kathy; Scott, Michael; Santiago, Patricia; Sheron, Brian; Uhle, Jennifer
Subject: FW: Tracking List Update
Date: Wednesday, March 16, 2011 9:45:00 AM

Sorry – was a little too quick on the send button, but here's the response I sent Greg Bowman on why we did not propose external speakers in the SOARCA/Level 3 PRA commission meeting scheduling note.

-Kevin

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 8:47 AM
To: Bowman, Gregory
Cc: Armstrong, Kenneth; Correia, Richard; Coe, Doug; Stutzke, Martin; Hudson, Daniel
Subject: RE: Tracking List Update

Greg –

(b)(5)

Hope this helps explain the basis – definitely let me know if you need more information –

Kevin

From: Bowman, Gregory
Sent: Wednesday, March 16, 2011 8:20 AM
To: Coyne, Kevin
Cc: Armstrong, Kenneth
Subject: RE: Tracking List Update

I spoke with Jim briefly about the scheduling note. The scheduling note only includes NRC staff participation in the meeting/

(b)(5)

Can you let me know our basis for doing that, in case the Chairman brings it up?

AS/128

From: Coyne, Kevin
Sent: Tuesday, March 15, 2011 6:36 PM
To: Andersen, James; Bowman, Gregory
Cc: Armstrong, Kenneth; Hudson, Daniel; Ibarra, Jose; Coe, Doug; Gibson, Kathy; Scott, Michael; Correia, Richard; Ader, Charles; Cheok, Michael; Tinkler, Charles; Stutzke, Martin; Sheron, Brian; Uhle, Jennifer; Santiago, Patricia
Subject: RE: Tracking List Update

Jim, Greg –

(b)(5)

Please let me know if you need any additional information at this time –

Kevin

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

(b)(6)

(cell)

From: Andersen, James
Sent: Monday, March 14, 2011 11:56 AM
To: Coyne, Kevin
Subject: FW: Tracking List Update

From: Andersen, James
Sent: Monday, March 14, 2011 11:16 AM
To: Santiago, Patricia
Cc: Bowman, Gregory; Scott, Michael; Gibson, Kathy
Subject: RE: Tracking List Update

(b)(5)

Jim A.
415-1725

From: Baval, Rochelle
Sent: Monday, March 14, 2011 10:42 AM
To: Andersen, James
Subject: FW: Tracking List Update

Jim,

I spoke briefly with Angela this morning about agenda planning for July meetings...

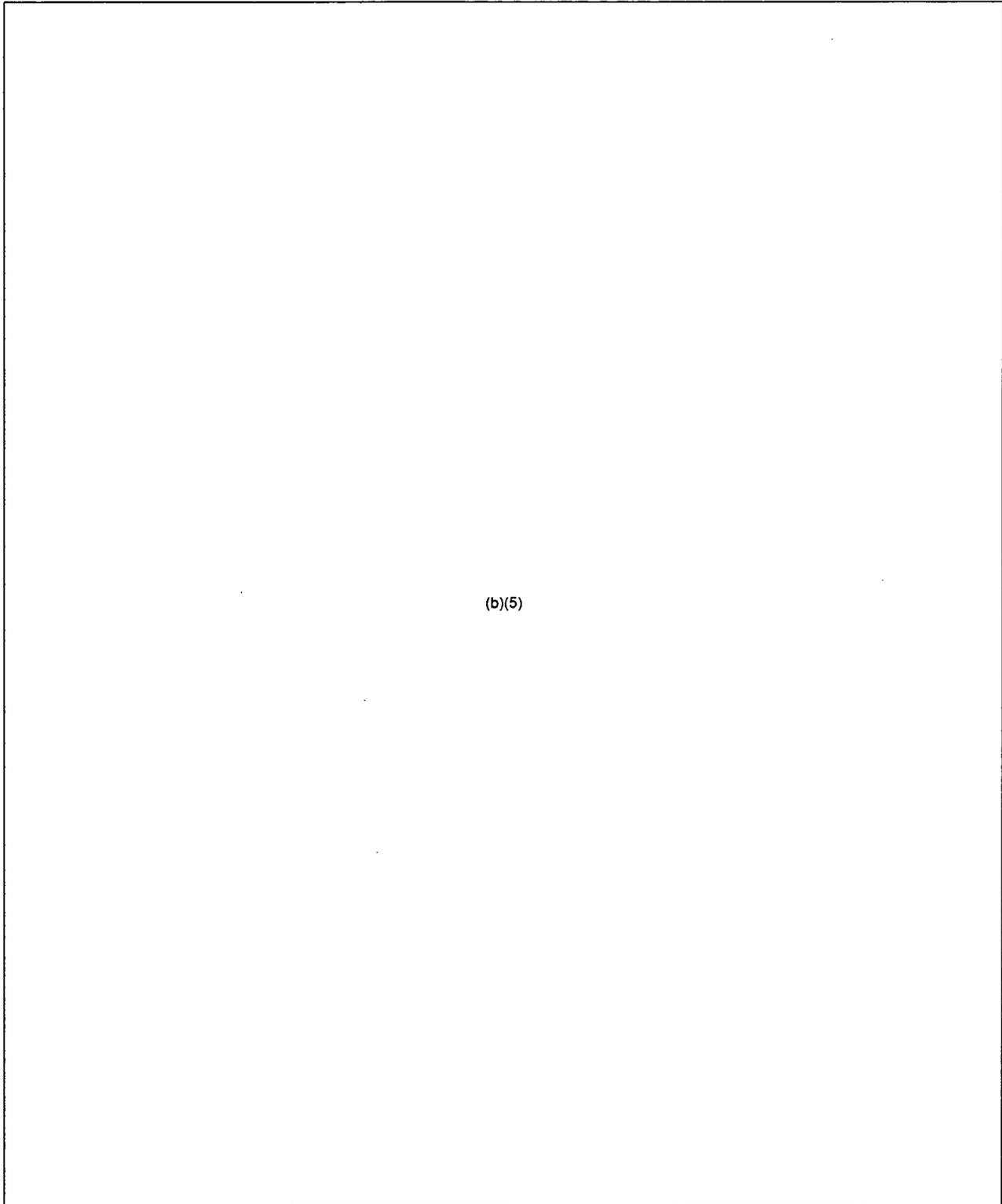
(b)(5)

(b)(5)

We're still going to try to meet with Angela this Thursday, 3/17 at 10, since pre-agenda with the Chairman is moved to 3/22.

Rochelle

SCHEDULING NOTE



(b)(5)

(b)(5)

Dean, Bill

From: Dean, Bill
Sent: Wednesday, March 16, 2011 10:12 AM
To: McNamara, Nancy
Subject: RE: Request from VT RE: Comm. on Delay of VY License

(b)(5)

Bill

From: McNamara, Nancy
Sent: Wednesday, March 16, 2011 10:00 AM
To: Holian, Brian; Pham, Bo
Cc: Dean, Bill; Lew, David; Tiff, Doug
Subject: Request from VT RE: Comm. on Delay of VY License
Importance: High

Hi Brian. I received a call this morning from Sarah Hofmann, VT DPS attorney and she would like to suggest that we honestly just come out and say why we are delaying the issuance of the license. For example, "in light of the events occurring in Japan, the NRC has decided to delay the issuance of the VY license until we....." Otherwise, they will be left trying to explain to their govt officials and public the meaning behind what we are really saying .

I told her that your office is working on key messages and a comm. Plan and that I would forward her suggestion to you

Best Regards,
nancy.

March 15, 2011

MEMORANDUM TO: James W. Andersen
Nathan T. Sanfilippo
Office of the Executive Director for Operations

FROM: Ronald R. Bellamy, Ph.D., Chief /RA/
Reactor Projects Branch 6
Division of Reactor Projects, Region I

SUBJECT: BRIEFING PACKAGE FOR VISIT TO HOLTEC, CARNEGIE MELLON,
AND BEAVER VALLEY ON MARCH 22-23, 2011

Enclosed is the briefing package for the March 22-23, 2011 visit to Holtec, Carnegie Mellon and Beaver Valley with Commissioner William D. Magwood. The tabs in the briefing package for each facility are presented by order of each facility visited. Carnegie Mellon University does not have data in all of the tabbed sections.

Docket Nos. 50-334, 50-412

Enclosure:
Briefing package

cc: w/enclosure: W. Dean
D. Lew
D. Roberts
J. Clifford
R. Bellamy
D. Werkheiser
R. Lorson

Distribution:
Non-Public
Package: ML110740171
Letter: ML110740173

AS/130

VISIT BRIEFING PACKAGE

William D. Magwood
NRC Commissioner



**Holtec International (HOLTEC),
Carnegie-Mellon University (CARNEGIE),
and
Beaver Valley Power Station (BVPS)
Site Visit**

March 22-23, 2011

CONTENTS

[3 Separate Packages – Combined in Series]

AGENDA

Agenda and Executive Summary.....Tab 1

FACILITY DATA

Facility Location and Directions Tab 2

Facility Data..... Tab 3

Facility Unique Features Tab 4

FACILITY PERFORMANCE

Reactor Oversight Process Information Tab 5

Current Issues..... Tab 6

FACILITY MANAGEMENT DATA

Facility Organization Tab 7

Biographical Data of Licensee Personnel Tab 8

NRC MANAGEMENT DATA

Biographical Data of NRC Personnel..... Tab 9

Combined Agenda for Commissioner W. Magwood's Visit

Tuesday, March 22

8:32 am Leave Dulles United on flight #7643

9:30 am Arrive Pittsburg Intl. airport – Met by Ray Lorson

10:30 - 1:30 pm Arrive at Holtec International tour and working lunch

1:30 pm Leave Holtec International to Carnegie Mellon

2:00 pm Arrive on campus

2:00 - 2:45 pm Meet & Greet/Vision & Mission
Roundtable Discussion
Singleton Room, Roberts Hall
Participants: Dean Khosla, CIT Department Heads
Environment and Public Policy (EPP) faculty and students.

2:45 - 3:00 pm Walk to Warner Hall

3:00 - 3:30 pm Private meeting with President Cohon
Warner Hall, 6th Floor

3:30 – 4:00 pm Smart Grid Modeling Presentation
Carnegie East conference room, Warner Hall 1st Floor

4:00 – 4:15 pm Walk to the University Center

4:15 - 5:15 pm Commissioner Magwood Discussion with Students
Dowd Room, 2nd Floor, University Center (seats 35)

Wednesday, March 23

7:00 am Meet for Breakfast – Embassy Suites, Pittsburgh Airport

7:30 am Leave Hotel for Beaver Valley

8:00 to 1:00 pm Containment tour and working lunch at Beaver Valley

1:15 pm Leave Beaver Valley for the Airport

2:49 pm Flight from Pittsburgh on United flight #7681

3:56 pm Arrive at Dulles

Executive Summary For Visit to Holtec International, Inc., Turtle Creek, PA

Purpose of the visit/meeting

To meet with Holtec Manufacturing Division (HMD) and Holtec corporate personnel, tour the HMD facility, and receive an overview of Holtec's activities related to the design of a small modular reactor (HI-SMUR).

Attendees (see Tab 8 – Holtec)

Holtec International Inc. personnel

- Mr. Pierre Paul Oneid, Sr. Vice President and Chief Nuclear Officer
- Mr. Allen Hickman, General Manager Holtec Manufacturing Division/Corp Supply Manager
- Dr. Stefan Anton, Vice President of Engineering
- Ms. Tammy Morin, Licensing Manager

NRC

- William D. Magwood, Commissioner, NRC
- Patrice M. Bubar, Chief of Staff/Executive Assistant
- Rebecca Tadesse, Technical Assistant for Materials
- Ray Lorson – Director, Division of Nuclear Materials Safety

Message to Communicate

Express appreciation for the licensee's willingness to accommodate the NRC request to tour their facility.

Executive Summary (CARNEGIE)

Purpose of the visit/meeting

Meet with Carnegie-Mellon faculty, staff, and students. Observe and participate in presentations and round table discussions. Meet with University President.

Attendees

Carnegie-Mellon (see Tab 8-CARNEGIE)

- Jared L. Cohon, President
- Mark Kamlet, Provost and Executive Vice President
- Pradeep K. Khosla, Dean, College of Engineering

NRC

- William D. Magwood, Commissioner, NRC
- Patrice M. Bubar, Chief of Staff/Executive Assistant
- Rebecca Tadesse, Technical Assistant for Materials
- Ray Lorson, Director, Division of Nuclear Materials Safety

Activities on site

- Round table discussion
- Private meeting with University President
- Discussions with students

Executive Summary (BVPS)

Purpose of the visit/meeting

Tour the Beaver Valley site and have conversations with NRC and FirstEnergy management regarding various topics of interest.

Attendees

FirstEnergy (see Tab 8)

- James H. Lash, President and Chief Nuclear Officer, FirstEnergy Nuclear
- Peter P. Sena, III, President and Chief Operating Officer, FirstEnergy Nuclear
- Greg H. Halnon, Director of Regulatory Affairs, FirstEnergy Nuclear
- Paul A. Harden, Beaver Valley Site Vice President
- Ray Lieb, Beaver Valley Director of Site Operations (Plant Manager)

NRC (see Tab 9)

- William D. Magwood, Commissioner, NRC
- Patrice M. Bubar, Chief of Staff/Executive Assistant
- Rebecca Tadesse, Technical Assistant for Materials
- Jim Clifford, Deputy Director, Division of Reactor Projects
- David Werkheiser, BV Senior Resident Inspector
- Erin Bonney, BV Resident Inspector

Activities on site

- Meet with NRC resident inspectors
- Tour Unit 2 containment with NRC and FirstEnergy management.
- Meet with FirstEnergy management

Licensee Ownership Information

FirstEnergy Corp. is a diversified energy company headquartered in Akron, Ohio. Its subsidiaries and affiliates - which produce more than \$12 billion in annual revenue and own approximately \$31 billion in assets - are involved in the generation, transmission and distribution of electricity, as well as energy management and other energy-related services.

FirstEnergy's seven electric utility operating companies - Ohio Edison Company, The Cleveland Electric Illuminating Company, Toledo Edison Company, Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and Jersey Central Power & Light Company - comprise the nation's fifth largest investor-owned electric system, based on 4.5 million customers served within a 36,100-square-mile area of Ohio, Pennsylvania, and New Jersey.

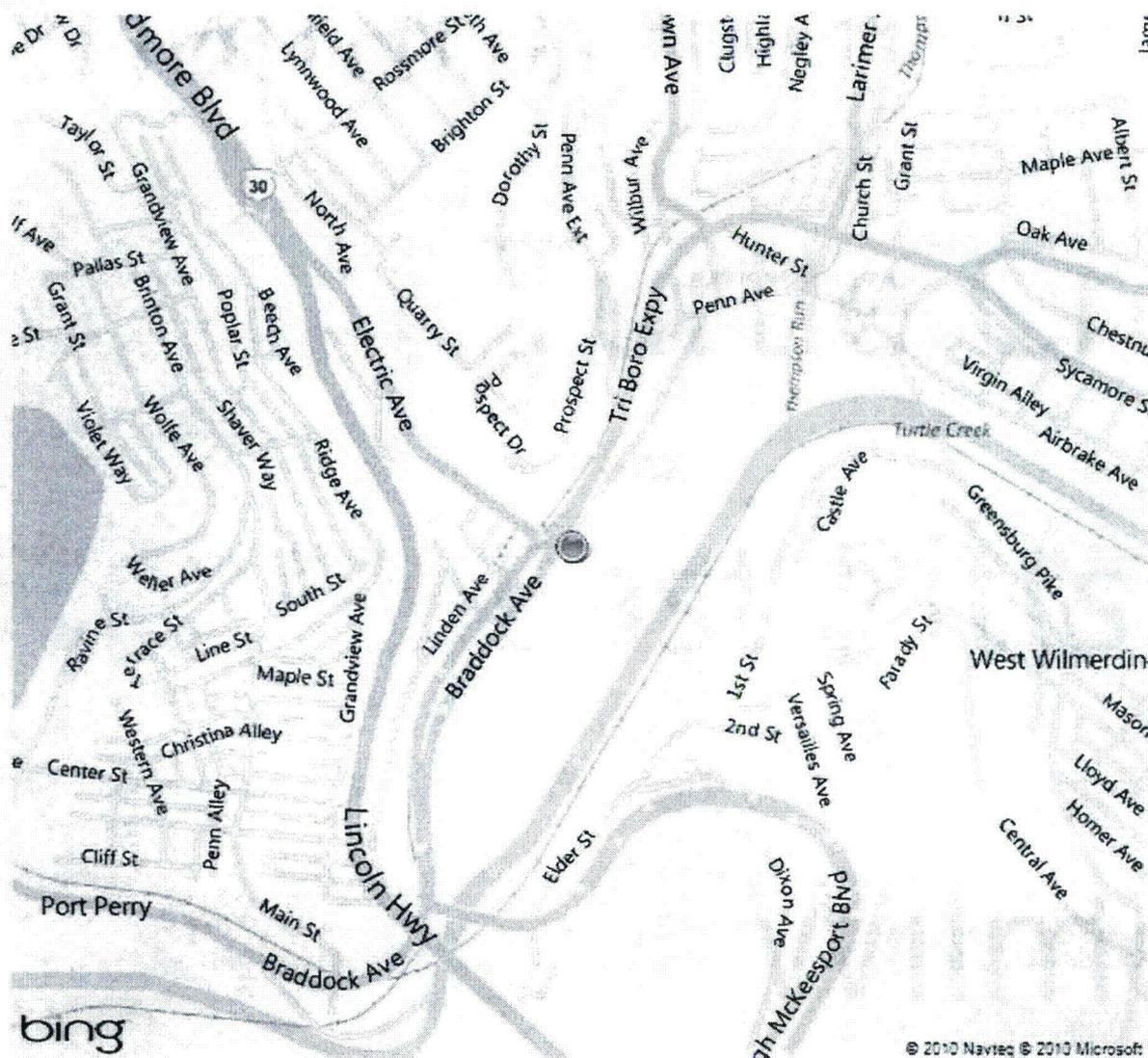
FirstEnergy operates 20 power plants with a total system capacity of more than 13,000 megawatts. Altogether, FirstEnergy produce more than 76 million megawatt hours of electricity each year. Of FirstEnergy's total generation capacity,

- 55 percent (7,339 megawatts) is produced using coal;
- 28 percent (3,795 megawatts) comes from nuclear plants;
- 12 percent (1,599 megawatts) is fueled by natural gas or oil; and
- 5 percent (654 megawatts) comes from pumped-storage hydroelectric facilities

Facility Location Directions

Directions to Facility

Take I-376 East/SR-60 South toward Pittsburgh for 17 miles. Take the ramp on right for I-376 East/US-22 East toward Monroeville for 7.9 miles. Take exit 78A for US-30 East/Ardmore Boulevard toward Forest Hills for 2.4 miles. Take the ramp right for Electric Avenue toward East Pittsburgh/Turtle Creek for 0.8 miles. Turn left onto Braddock Avenue. The facility is on the right.



Facility Location Directions

Driving directions to Roberts Hall of Engineering, Carnegie Mellon University



200 Braddock Ave
Braddock, PA 15104

1. Head **northwest** on **Braddock Ave** toward **2nd St** 0.1 mi
2. Continue onto **Kenmawr Ave** 0.5 mi
3. Continue onto **Belmar Pl/S Braddock Ave** 0.8 mi
4. Keep left at the fork 0.5 mi
5. Take the **Interstate 376 W E** ramp to **PA-885 S** 0.4 mi
6. Merge onto **I-376 W** 3.4 mi
7. Take exit **73B** to merge onto **PA-885 N/Bates St** toward **Oakland** 0.4 mi
8. Turn right at **Boulevard of the Allies** 0.2 mi
9. Turn left at **Dawson St** 0.3 mi
10. Turn left at **S Bouquet St** 0.2 mi
11. Turn right at **Roberto Clemente Dr** 0.1 mi
12. Continue straight onto **Schenley Dr** 0.3 mi
13. Turn left at **Frew St** 449 ft
14. Turn left 384 ft



Roberts Hall of Engineering, Carnegie Mellon University
Pittsburgh, Pennsylvania 15213

Driving directions to 550 Cherrington Pkwy, Coraopolis, PA 15108



Roberts Hall of Engineering, Carnegie Mellon University
Pittsburgh, Pennsylvania 15213

1. Head **south** toward **Frew St** 384 ft
2. Turn **right** at **Frew St** 420 ft
3. Take the 1st right onto **Schenley Dr** 0.3 mi
4. Turn **right** to stay on **Schenley Dr** 0.1 mi
5. Continue onto **Bigelow Blvd** 0.1 mi
6. Turn **left** at **5th Ave** 0.7 mi
7. Turn **left** to stay on **5th Ave** 0.1 mi
8. Slight **left** to merge onto **PA-885 N/Boulevard of the Allies** toward **I-579/I-376 W** 0.3 mi
9. Merge onto **I-376 W** via the ramp to **Downtown** 14.0 mi
10. Take exit **3** toward **Moon/State Highway 60** 0.5 mi
11. Merge onto **I-376 BUS W** 2.0 mi
12. Take the **Thorn Run Rd** exit 0.2 mi
13. Turn **right** at **Thorn Run Rd Exd** 240 ft
14. Continue onto **Cherrington Pkwy** 0.4 mi



550 Cherrington Pkwy
Coraopolis, PA 15108

Facility Location and Directions

Beaver Power Station Info:

Address: Route 168, Shippingport, PA 15077

GPS address: Beaver Valley Blvd; Shippingport, PA 15077

GPS Coordinates: 40°37'27.45"N 80 °25'39.77"W (front door of badging: ERF)

Office Phone 724-643-2000 / Fax # 724-643-2003

Senior Resident Inspector Cell (David Werkheiser): 610-739-3157

Directions from Pittsburgh Airport to Beaver Valley

- 1 Take ramp onto **I-376W (BUSINESS)** toward Moon/Beaver/Pennsylvania Turnpike West/Cargo...continue on **I-376W**
- 2 Take **Aliquippa** Exit (~5.5 miles), turn left onto **GREEN GARDEN ROAD**
- 3 Follow **Green Garden Road** (cross Route 18); **Green Garden Road** becomes **SHIPPINGPORT HILL ROAD** after you cross Route 18.
4. Pass the coal plant on right (Bruce Mansfield 1,2,3) at the bottom of **SHIPPINGPORT HILL ROAD**. (~8.5 miles from **Aliquippa** Exit)
- 5 Make first right (into large parking lot) after passing the First Energy Training Center (on left)
- 6 Enter second parking area. Reserved Parking Spaces will be set up in front of the **Emergency Response Facility (ERF)**, which will be on your **LEFT** as you drive in the plant parking lots. In-Processing and dosimetry are located in the ERF Building.

Estimated Time: 45 minutes Estimated Distance: 25 miles

Directions from Beaver Valley to Pittsburgh Airport

- 1 Exit plant parking lot and Turn **LEFT** onto **SHIPPINGPORT HILL RD**. Continue past the coal plant (FENOC Bruce-Mansfield) until you reach the **STOP** sign at Route 18.
- 2 Cross Route 18, stay left; the road becomes **GREEN GARDEN RD**. Continue on **GREEN GARDEN RD** approximately 8.5 miles until you reach **I-376**.
- 3 Take **I-376E** (LEFT Turn for On-Ramp - No Stop Light)
- 4 Follow **I-376E** to Pittsburgh International Airport Exit.
Rental Car return is from the right lane.

Estimated Time: 45 minutes Estimated Distance: 25 miles

Directions from Headquarters to Beaver Valley (~5hrs)

1. Take **I-270 North** to **I-70 West**
2. Take **I-70 West** ~77mi to Breezewood/Pennsylvania Turnpike (**I-76 West**)
3. Take **PA Turnpike West** ~105mi to **Exit 57** (Monroeville)
4. Merge onto **I-376 West** to Pittsburgh
5. Go through Fort Pitt Tunnel, continue on **I-279 South/I-376 West**.
6. Follow **I-376 West** past the Greater Pittsburgh Airport to the **Aliquippa Exit**
~5.5 miles from the airport
7. Turn left at the bottom of the exit ramp onto **Green Garden Road Road**
8. Follow **Green Garden Road** (cross Route 18) for ~8.5 miles past the Bruce Mansfield Coal plant at the bottom of Shippingport Hill Road
9. Turn right immediately after passing the Beaver Valley Training center
10. Park in front of the Emergency Response Facility (ERF) parking lot spots.

Facility Data

Holtec Manufacturing Division (HMD) is one of 7 divisions of Holtec International, Inc. The shop fabricates all of Holtec's equipment destined for nuclear plants such as fuel storage racks and spent fuel storage canisters. Holtec also fabricates heat exchangers such as feedwater heaters, condensers, and auxiliary heat exchangers for both nuclear and non-nuclear applications. The shop consists of 450,000 square feet of fabrication and warehouse space in eight bays. The bays are served by bridge cranes ranging from 10 to 200 ton capacity. The shop has the capability of accomplishing tandem lifts of 400 tons. Heavy machining is performed on computer numerical control (CNC) horizontal boring mills and vertical milling machines. One complete bay (88,000 square feet) is dedicated to warehouse and storage.

HMD is equipped to perform a complete range of non-destructive examinations; such as, liquid penetrant (PT), magnetic particle (MT), ultrasonic (UT) and radiographic (RT).

Facility Data

Carnegie-Mellon University

Facts about Carnegie Mellon University's Radioactive Materials License

- Carnegie Mellon University (CMU) has a broad scope academic license from the State of Pennsylvania. (Pennsylvania became an Agreement State on March 31, 2008)
- The last inspection of CMU was done by Pennsylvania and was on December 8th and 9th, 2009. There were no violations.
- CMU uses their licensed radioactive material for "research and development" as defined by 10 CFR 30.4 and for "teaching and training of students." No human use is authorized.
- CMU has three locations of use listed on the license: the Main Campus, the former Mellon Institute, and a new research institute nearby.

Facts about Carnegie Mellon University Engineering Program

- The Carnegie Institute of Technology (CIT) became the College of Engineering in 1967, when Carnegie Mellon University was formed.
- *U.S. News & World Report* ranks CIT in the top 10 Engineering Colleges for both graduate and undergraduate education.
- Carnegie Mellon has 21 faculty members in the National Academy of Engineering.
- CIT is the second smallest school in the top 20 Engineering Colleges, with opportunity for true interdisciplinary research.
- CIT offers a five-year joint bachelor's and master's degree in all five of the traditional majors.
- CIT offers an accelerated master's program in Engineering & Technology Innovation Management.
- CIT has more than 130 tenure-track faculty members. That is approximately 26% of the total number of tenure-track faculty members at Carnegie Mellon.
- CIT students make up about 28% of the entire Carnegie Mellon student body.
- CIT offers a unique joint degree with the Tepper School of Business where students can earn a BSE and an MBA in five years.
- Students accepted into the class of 2012 were ranked in the top 5% of their high school class and had an average GPA of 3.71. Their average ACT composite is 31 and average SAT scores were: critical reading: 660, math: 740, and writing: 670.
- Our Honors Research program offers undergraduates the chance to participate in faculty research efforts, contributing at the graduate-student level.
- Almost 20% of CIT undergraduate students are from outside of the U.S.
- Approximately half of CIT undergraduate students go on to graduate school.

Facility Data

Beaver Valley Power Station, Unit Nos. 1 and 2

Utility: FirstEnergy Nuclear Operating Company
Plant Location: Shippingport, Pennsylvania (17 miles West of McCandless, PA)
County: Beaver

| | <u>UNIT 1</u> | <u>UNIT 2</u> |
|----------------------|---------------|---------------|
| License Nos. | DPR-66 | NPF-73 |
| OL Issuance Date: | 07/02/1976 | 08/14/1987 |
| Commercial Operation | 10/01/1976 | 11/17/1987 |
| OL Expiration Date: | 01/29/2036 | 05/27/2047 |

Plant Characteristics - Units 1 and 2

| | |
|------------------|--|
| Reactor Type | PWR |
| Containment Type | Dry Ambient |
| Power Level | Unit 1: 2900 MWt 895 MWe, Unit 2: 2900 MWt 880 MWe |
| NSSS Vendor | Westinghouse |



Facility Unique Features

Equipment

- Bridge Cranes (10 – 200 Tons); Total Lift Capacity = 400 tons
- Over 100 Welding Machines
- CNC Horizontal Mills, CNC Vertical Milling & Boring Machine (38') / 140-Ton Capacity
- Two CNC Plasma Cutting Systems With H₂O Tables
- Press Brakes to 400 Tons
- Robotic Welding, Non-Destructive Test Capability, Laser Cutting Table, Water Jet, Haas CNC Vertical Machining Center

Facility Unique Features

Unit Specific Operator Licenses: Although both units are Westinghouse 3-loop PWRs, there are numerous (i.e., hundreds) design differences due to the 11 year difference in age (vintage). Examples of these design differences include Recirculation Spray pump alignments and functions, Quench Spray discharge paths, presence of a boron injection tank, nitrogen-16 monitors and automatic effluent diversion for steam generator tube leaks, reactor protection system setpoints, mitigating system train separation, power supply for containment isolation valves, station response to loss of instrument air, etc. Due to the large number of differences between the two sites, operators receive single unit operating licenses. FENOC does not intend to request dual unit operator licenses.

Emergency 4KV AC Crosstie Capability: A design modification was implemented to permit an emergency 4KV bus from one unit to be powered from an emergency diesel generator (EDG) from the opposite unit. This modification reduced overall core damage frequency and supported compliance with the Station Blackout Rule. This capability was beneficial in reducing the safety significance of a human error in early 2002 which caused both Unit 2 EDGs to be inoperable for 4 days during core drain-down and reload.

Shippingport, First U.S. Nuclear Power Station: Shippingport Atomic Power Station began operation in 1957 and was retired in 1982. The reactor plant was under the ownership of the U.S. Atomic Energy Commission and later the Department of Energy; it was decommissioned and dismantled in the early 1990's. Elements of the non-nuclear portion of the Shippingport facility remained largely intact on FENOC controlled property until the summer of 2009 when it was demolished to support up-coming security enhancements. This area is just outside the Beaver Valley Power Station protected area boundary (west of Unit 1).

Facility Oversight Process Info

Holtec International, Inc. operates as an energy technology company in the United States and internationally. Its Nuclear Power division provides solutions for the management of the back end of the nuclear power cycle for use by the commercial nuclear power plants; carries out different phases of a spent fuel project, including equipment design and licensing, material, acquisitions, and manufacturing; designs heat exchangers, and pressure vessels and appurtenances; develops solutions to technical problems of power plants; and performs the installation of primarily spent fuel storage systems. HMD makes dry fuel storage and transportation canisters and high technology racks for nuclear utilities in the U.S. and around the world. HMD also makes commercial heat exchange equipment and weldments for the Fossil Power division, along with tanks and vessels.

Licensed Activities

Holtec provides spent fuel storage, and handling systems for site specific licensees and for general licensees with 10 CFR 50 operating licensees in accordance with 10 CFR 72. Transportation systems are designed and manufactured in accordance with 10 CFR 71. Design specifications are provided to the HMD Turtle Creek facility where the cask systems are manufactured.

Inspection Activities

The HMD Turtle Creek, PA facility was last inspected in 2010 (December 6-9, 2010, NRC Inspection Report No.: 07201014/2010-202). Overall, HMD's fabrication activities and Holtec's oversight of the fabrication activities were assessed to be adequate in meeting their Quality Assurance (QA) Program requirements, as well as NRC QA requirements. No cited violations of NRC requirements were identified.

Reactor Oversight Process (ROP) Information

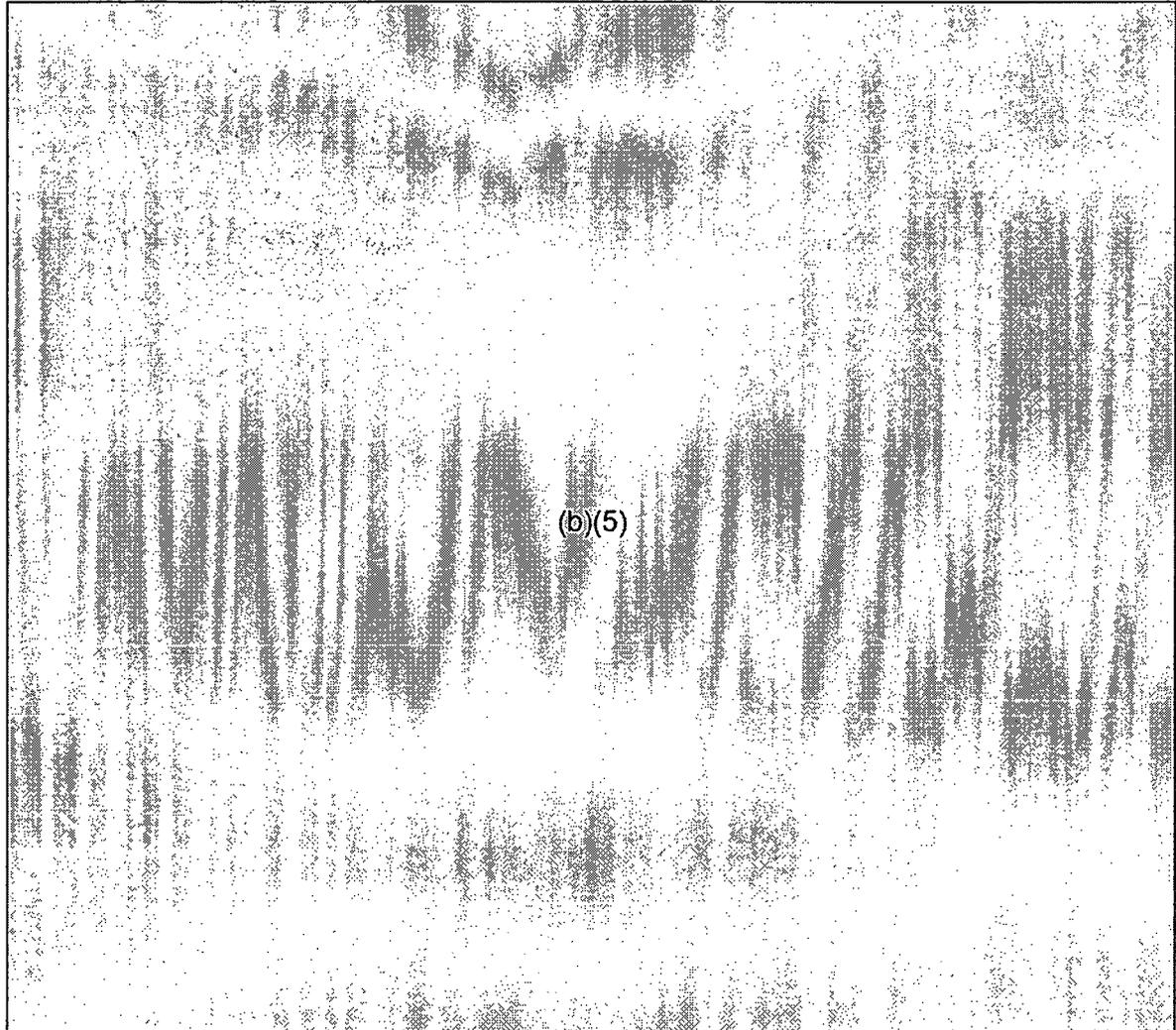
Beaver Valley Power Station, Unit Nos. 1 and 2 (BVPS), are in the **Licensee Response** column of the Action Matrix, based on all inspection findings being classified as having very low safety significance (**Green**) and all PIs indicating performance at a level requiring no additional NRC oversight (**Green**).

The following uniform resource locators are for the BVPS Reactor Oversight Process Performance Summary web pages.

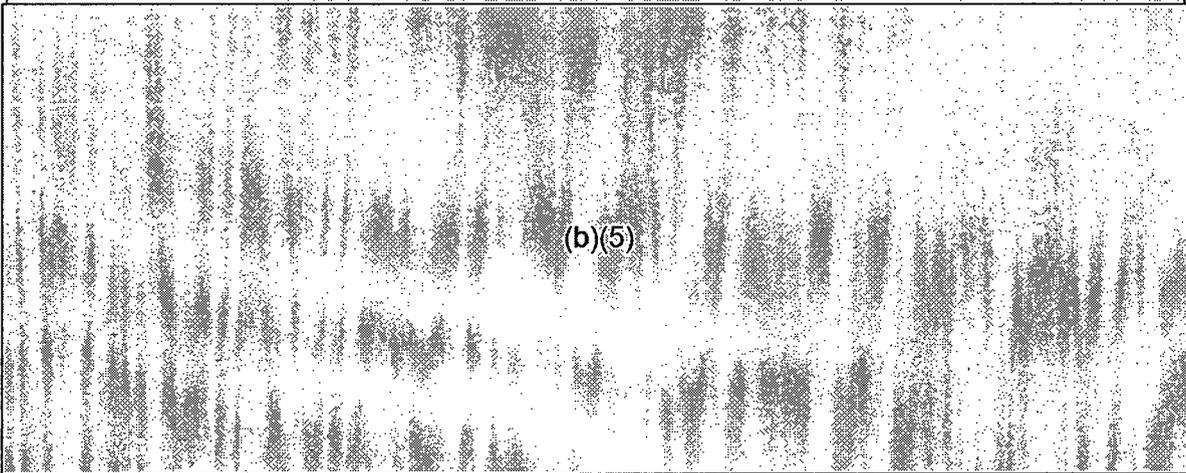
http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/BV1/bv1_chart.html

http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/BV2/bv2_chart.html

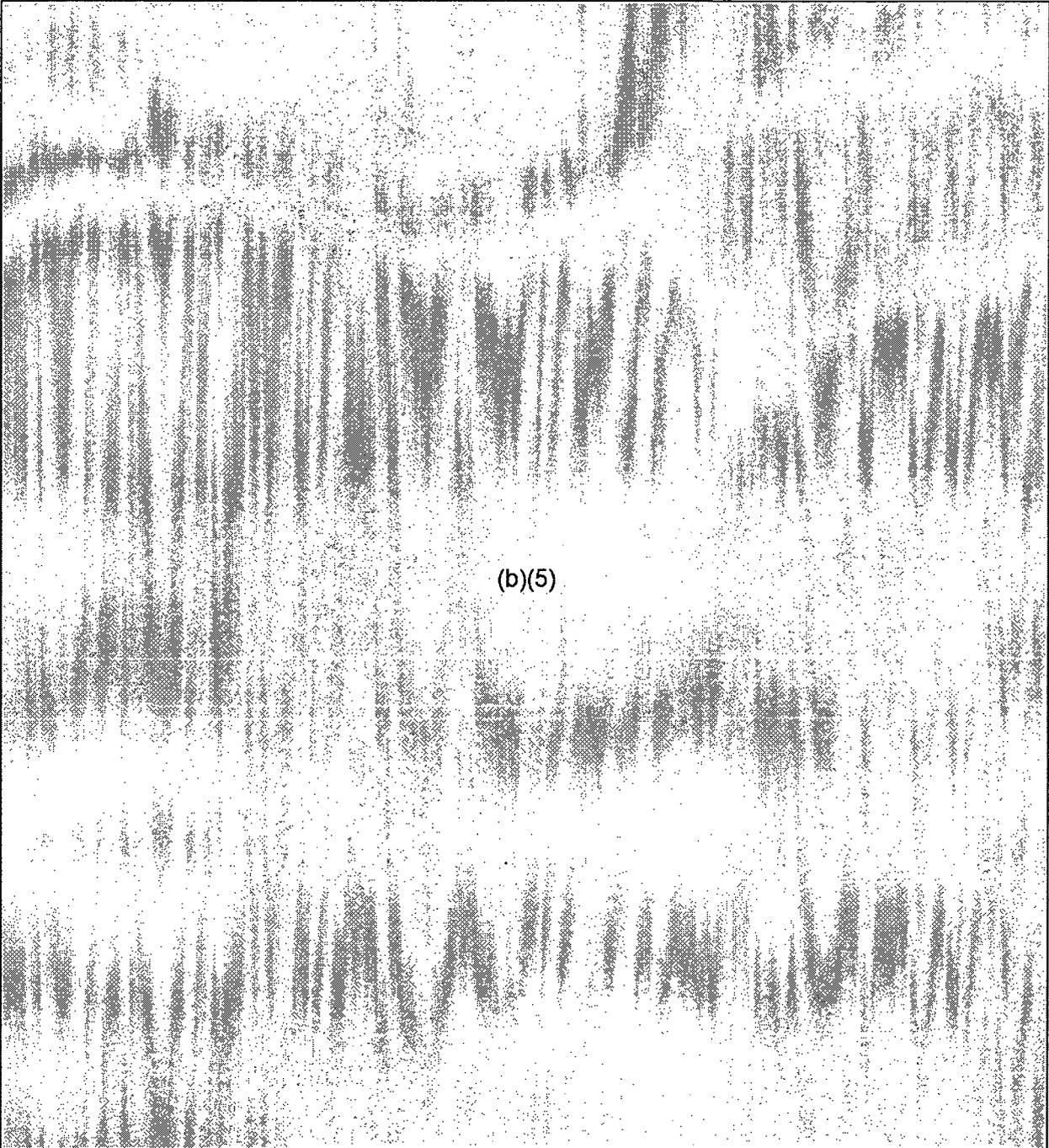
Current Issues



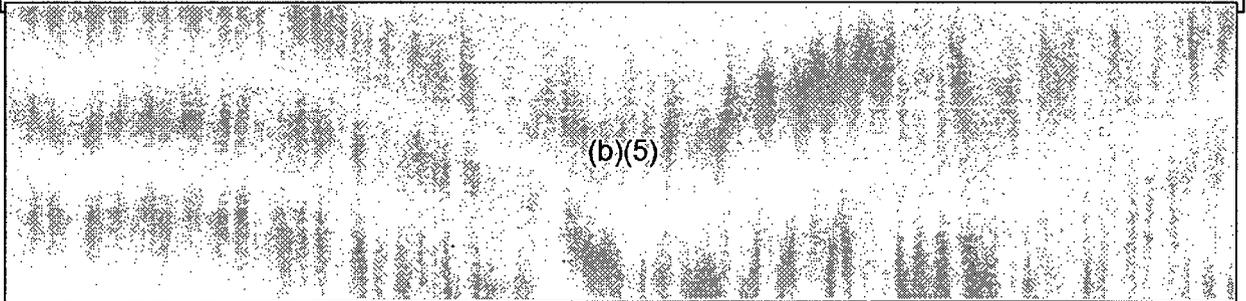
(b)(5)



(b)(5)



(b)(5)

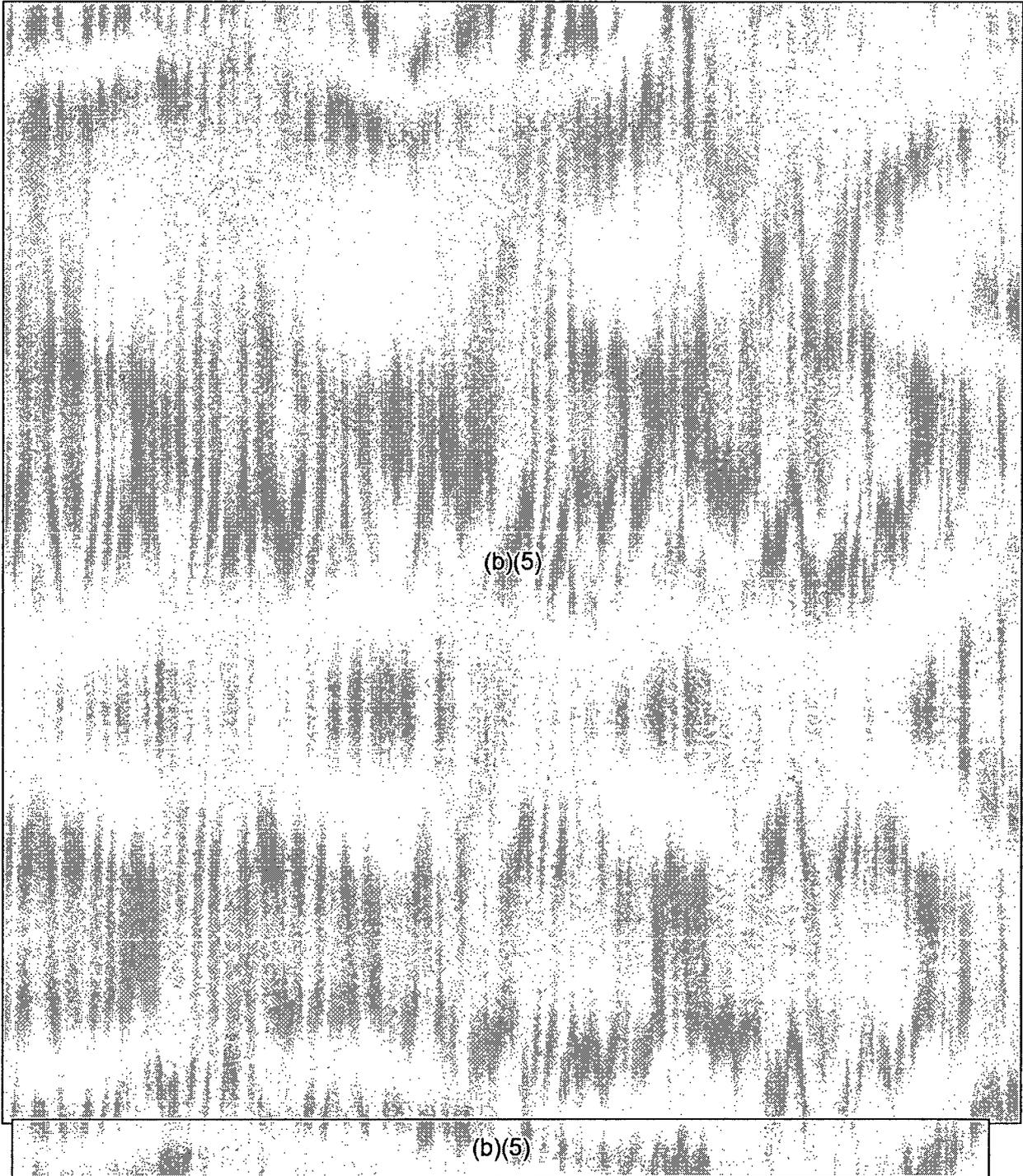


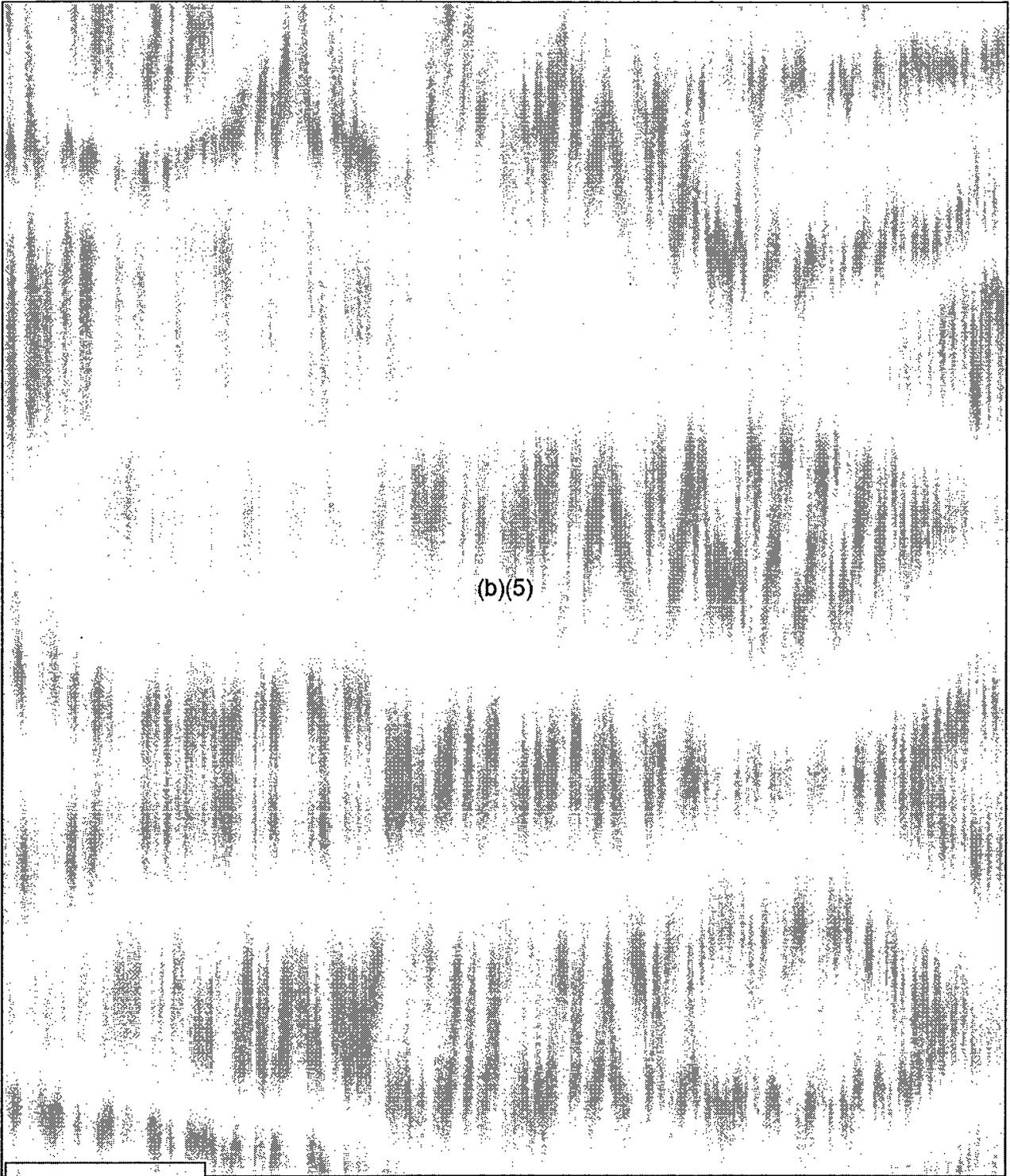
(b)(5)



(b)(5)

Current Issues



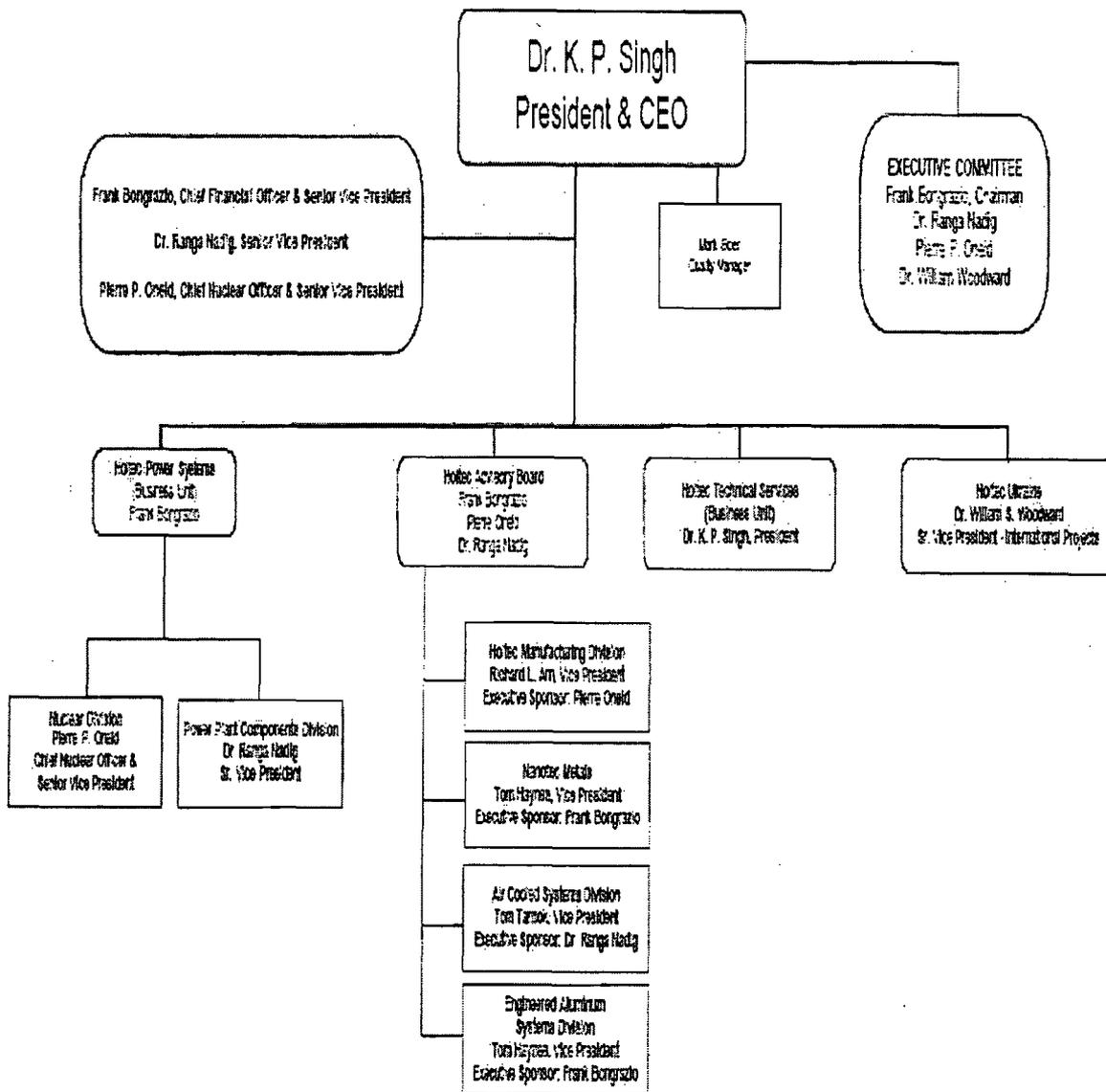


(b)(5)

(b)(5)

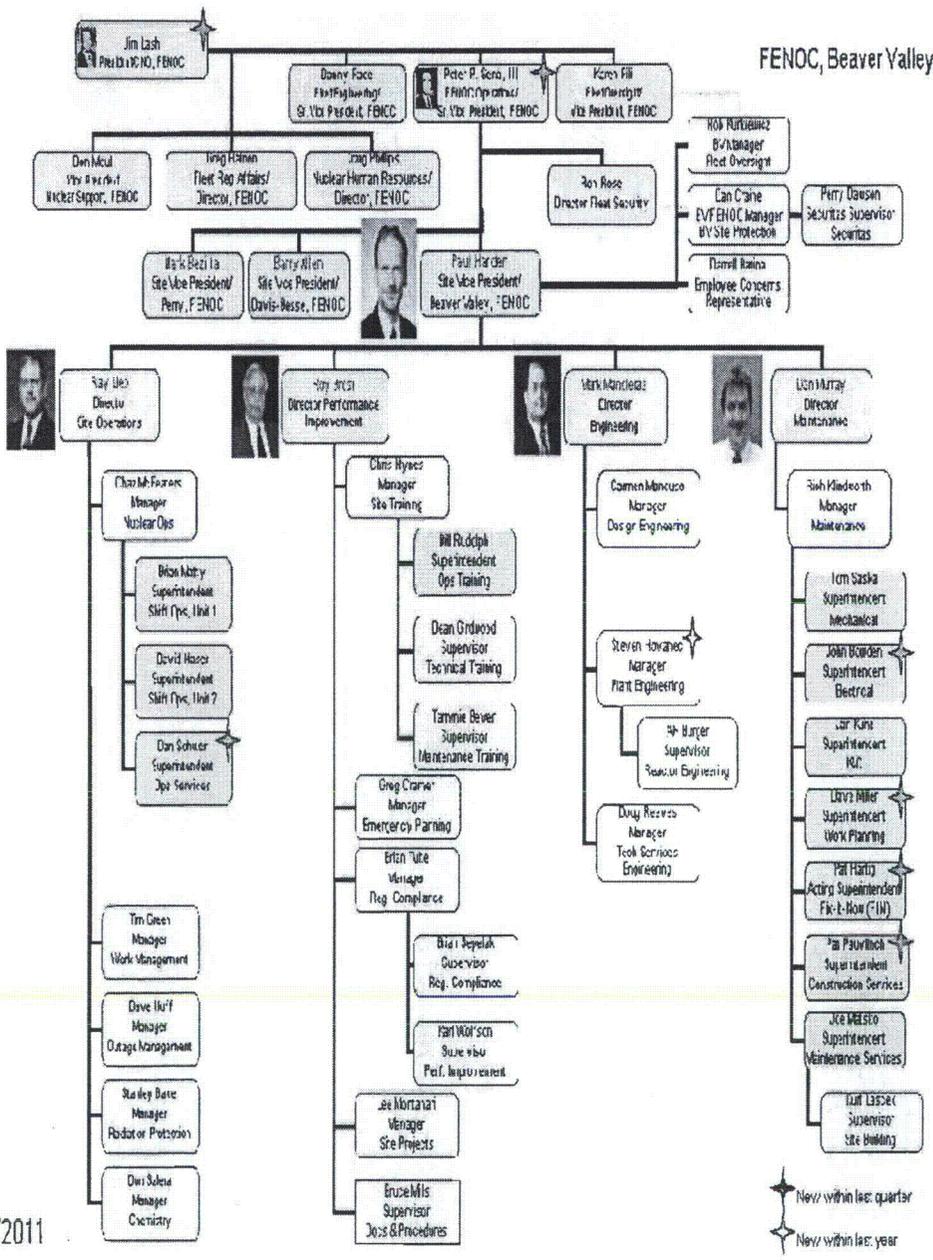
Facility Organization

Holtec was created in 1986 and provides equipment and services to the nuclear and non-nuclear power industries. Holtec operates through seven divisions: Nuclear Power, Holtec Manufacturing (HMD), Technical Services, Nanotec Metals, Engineered Aluminum Systems, Power Plant Component, and Air Cooled Systems.



BEAVER VALLEY SITE ORGANIZATION

TAB 7-BVPS



1/6/2011

Biographical Data of Principal Managers

Mr. Pierre Paul Oneid, Sr. Vice President and Chief Nuclear Officer, is the corporate executive responsible for Sales and Marketing of the Nuclear Power Division and the Holtec Manufacturing Division. He is also responsible for the day-to-day management of the Nuclear Power Division. Mr. Oneid earned an Executive Master of Business Administration from Queens University in Canada and a B.A. in Mechanical Engineering from the University of Ottawa, Canada. Mr. Oneid is a Professional Engineer with twenty-four years of experience in the Nuclear Industry, including twelve years in mechanical and structural design and twelve years of business development and corporate strategy. Prior to joining Holtec, he served as an executive in charge of Global Marketing & Sales, Nuclear Division, for Stone & Webster, A Shaw Group Company. He is a member of NEI, Nuclear Strategic Initiative Advisory Committee (NSIAC)

Mr. Allen Hickman, General Manager Holtec Manufacturing Division/Corp Supply Manager, attended Bucks County Community College after leaving the United States Marine Corp. His experience prior to joining Holtec was with Trenton Alloy Fabricating Inc., a contract manufacturer where he was involved at all aspects of the business from Shop Manager to President, and at Lindain Engineering as a technical sales representative. He joined Holtec in 2006 in the Marketing and Sales Department and later as Supply Chain Manager. He came to HMD in June 2009 as Manager of Nuclear Manufacturing and in December 2009 was promoted to General Manager HMD.

Dr. Stefan Anton, Vice President of Engineering, is responsible for providing technical and licensing leadership to all Holtec departments engaged in design and analysis functions. Prior to joining Holtec in 1998, Dr. Anton worked in Germany and Australia for 19 years

Ms. Tammy Morin, Licensing Manager, has a BS in Nuclear Engineering and an MS in Mechanical Engineering from Rensselaer Polytechnic Institute. Her experience prior to joining Holtec was at the Knolls Atomic Power Laboratory designing reactors for nuclear submarines. She joined Holtec in 2006 in the Nuclear Department as a licensing engineer and is now the licensing manager. She is also involved with the NEI's Dry Storage Task Force.

Biographical Data of CARNEGIE Personnel



Meet the President: Jared L. Cohon

An acclaimed university administrator, civil engineer, professor and government adviser, Jared Cohon is Chairman of the Executive Committee of the Association of American Universities (AAU), which represents leading public and private research institutions.

In early 2011, the World Economic Forum invited Cohon to represent Carnegie Mellon as a permanent member of its Global University Leaders Forum (GULF). A small, elite group of international university leaders, GULF members formally engage with the Forum's corporate members on issues of critical importance to the global community.

Jared Cohon has been appointed by three United States Presidents to serve on review boards and councils.

President Clinton appointed him to chair the Nuclear Waste Technical Review Board, and Presidents G. W. Bush and Barack Obama appointed him to the Homeland Security Advisory Council.

Andrew Carnegie's foundation, the Carnegie Corporation of New York, honored Jared Cohon with one of its first Academic Leadership awards in 2005.

Among numerous other awards, he was named a distinguished member of the American Society of Civil Engineers, the society's highest accolade, in 2009.

Jared Cohon has also served on the boards of numerous corporations and Pittsburgh civic organizations.

He came to Carnegie Mellon from Yale University, where he was dean of the School of Forestry and Environmental Studies and professor of environmental systems analysis. He joined Yale after 19 years at The Johns Hopkins University, where he rose through the faculty ranks to become associate dean of engineering and vice provost for research.

Jared Cohon earned his bachelor's degree in civil engineering from the University of Pennsylvania and his Ph.D. from Massachusetts Institute of Technology.



Meet the Provost & Executive Vice President: Mark Kamlet

Mark Kamlet, provost of Carnegie Mellon since 2000, was reappointed to a second five-year term in 2005, at which time he also was named senior vice president. In July 2009, he agreed to a two-year term extension, and was named executive vice president. In August 2010, Mark Kamlet signed a one-year extension, ending in 2013.

As CMU's chief academic officer, Mark Kamlet has worked with the deans and department heads to strengthen the university's academic programs, retain and recruit world-class faculty, enhance its many research programs, centers and institutes, and create new academic and research initiatives leveraging the university's talent and expertise. A leading expert in economics and public policy, the economics of health care, quantitative methodology and public finance, he also has worked with local government and with Carnegie Mellon's many outreach initiatives to foster economic, educational and cultural development in southwest Pennsylvania.

Mark Kamlet joined Carnegie Mellon's central leadership team after a successful eight-year tenure as dean of the H. John Heinz III School of Public Policy and Management at CMU, now the Heinz College. Under Kamlet, the Heinz School's endowment increased more than 80 percent and its research funding grew by nearly 400 percent. He became a member of the CMU faculty in 1976 and was named a professor in 1989 with a joint appointment in the Heinz School and the College of Humanities and Social Sciences (H&SS). Before becoming dean of the Heinz School in 1993, Kamlet was associate dean of H&SS and head of its Department of Social and Decision Sciences.

He earned his bachelor's degree in mathematics from Stanford University, master's degrees in economics and statistics and a Ph.D. in economics from the University of California at Berkeley.



Meet the Dean: Pradeep K. Khosla

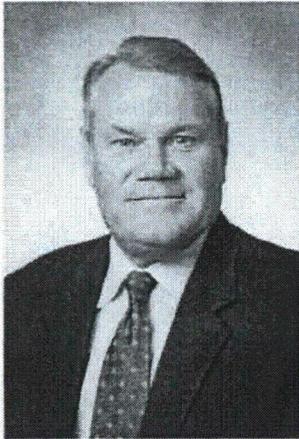
Pradeep K. Khosla is currently Dean of the College of Engineering and the Philip and Marsha Dowd University Professor at Carnegie Mellon. His previous positions include: Founding Director, Carnegie Mellon CyLab; Head, Department of Electrical and Computer Engineering; Director, Information Networking Institute; Founding Director, Institute for Complex Engineered Systems (ICES); and Program Manager, Defense Advanced Research Projects Agency (DARPA), where he managed a \$50M portfolio of programs in real-time systems, internet enabled software infrastructure, intelligent systems, and distributed systems.

Pradeep Khosla is the recipient of several awards including the ASEE 1999 George Westinghouse Award for Education, the SiliconIndia Leadership Award for Excellence in Academics and Technology (2000), the W. Wallace McDowell award from IEEE Computer Society (2001), the Cyber Education Award from the Business Software Alliance (2007), a lifetime achievement award from the American Society of Mechanical Engineers (ASME) (2009), and the Pan IIT Academic Excellence Award (2009). For his contributions to technology and education he has been elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), the American Association of Artificial Intelligence (AAAI), the American Association for Advancement of Science (AAAS), and member of the National Academy of Engineering (NAE). Pradeep Khosla was also selected to join the prestigious Council on Competitiveness' Technology Leadership Strategy Initiative (TLSI), a collaborative effort designed to chart the most promising frontiers of technology and competitive advantage arenas for the United States.

Pradeep Khosla's research has resulted in three books and more than 350 journal articles and conference and book contributions. He is a frequent keynote speaker at international conferences and has been invited to participate in thought leadership forums organized by Fortune Magazine, Advanced Micro Devices (AMD), the Milken Institute, the World Economic Forum, and the Blouin Foundation, among others. He has served on editorial boards for journals and book series.

Pradeep Khosla is a consultant for companies and venture capitalists and has served on the technology advisory boards of many start-ups. Currently he serves on the advisory boards for iNetworks LLC, ITU Ventures, and Alcoa. He is involved with iNetworks in raising a biotechnology fund called BioVentures, and he is the co-founder and a member of the board of directors for Quantapoint Inc. and BiometriCore Inc. He also serves on the board of directors for BitArmor Inc., the Children's Institute, the IIT Foundation, Mellon-Pitt (MPC) Corporation, the Pittsburgh Tissue Engineering Initiative (PTEI), the Doyle Center, and the Pittsburgh Technology Council. In addition, he serves on the advisory boards of several universities and government organizations. He is a member of the IT advisory committee, CSIRO, Australia; ITU High Level Experts Group for the Global Cybersecurity Agenda (GCA); and is a member of the Visiting Committee on Advanced Technology (VCAT) for NIST and the World Economic Forum's Global Agenda Council on Innovation. He has served on the Strategy Review Board of the Ministry of Science and Technology, Taiwan; Council of Deans of the Aeronautics Advisory Committee, NASA; National Research Council Board on Manufacturing and Engineering Design; and the Senior Advisory Group for the DARPA program on Joint Unmanned Combat Air Systems.

Biographical Data of FENOC Personnel



James H. Lash

President and Chief Nuclear Officer
FirstEnergy Nuclear Operating Company

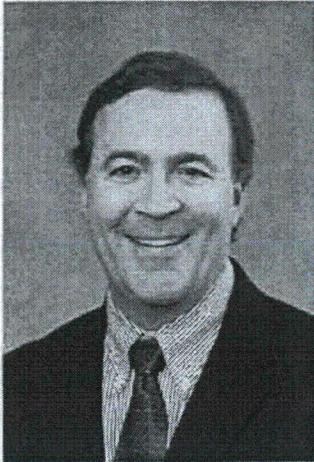
James H. Lash is President and Chief Nuclear Officer for FirstEnergy Nuclear Operating Company (FENOC), a subsidiary of FirstEnergy Corp.

Mr. Lash joined the Company in 1989 as safety engineering manager for Davis-Besse Nuclear Power Station in Oak Harbor, Ohio. He was named manager of design engineering in 1994 and earned his senior reactor operator license for Davis-Besse the same year. In 1995, he was manager of plant operations then served as director of engineering and service. In 1996, Mr. Lash was named plant manager. In 2000, he served as a loaned executive to the Institute of Nuclear Power Operations in Atlanta, Ga. In 2002, he returned to FENOC as the Director of Personnel Development at the Company's Beaver Valley Power Station in Shippingport, Pa. In 2003, Mr. Lash was named director of site operations and in 2005 he was promoted to site vice president. He was named senior vice president of operations in 2007 and was appointed to his current position in May 2010.

Prior to joining the Company, Mr. Lash was employed by Stone and Webster Engineering Corporation. From 1973 to 1981, he was an officer in the United States Navy, serving on the nuclear-powered guided missile cruisers USS *Mississippi* and USS *Long Beach*.

Mr. Lash earned a Bachelor of Science degree from the United States Naval Academy. In addition, he has completed numerous courses in business administration from the University of New Mexico and Babson College.

He serves on the board of the Pittsburgh Regional Business Coalition for Homeland Security and on the Westinghouse Customer Advisory Board. He is a council member for the National Academy for Nuclear Training and is a member of the American Nuclear Society.



Peter P. Sena III

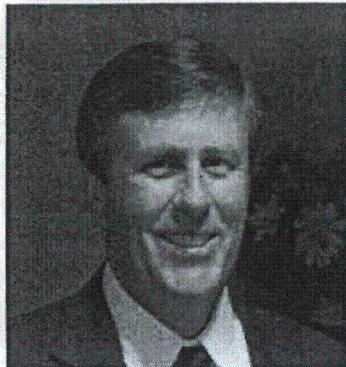
President and Chief Operating Officer
FirstEnergy Nuclear Operating Company

Pete P. Sena III is president and Chief Operating Officer for FirstEnergy Nuclear Operating Company (FENOC), a subsidiary of FirstEnergy Corp.

Pete joined the company in 1996 as an assistant shift supervisor at the Beaver Valley Power Station in Shippingport, Pa. In 2002, following a stint as an operational evaluator with the Institute of Nuclear Power Operations (INPO), he was named manager of site operations at Beaver Valley. In 2005 he was named director of Engineering. In 2007 Pete was named Beaver Valley director of Site Operations and later that year was named Beaver Valley Site Vice President. Pete was named Senior Vice President, FENOC Operations, in 2009. He was promoted to his current position in January 2011.

Prior to joining the company, Pete was employed by the United States Nuclear Regulatory Commission as a resident inspector. From 1985 to 1990, he was an officer in the United States Navy, serving aboard the USS *Alexander Hamilton* nuclear submarine.

Pete earned a Bachelor of Science Degree in Fuel Science from Pennsylvania State University. He also holds a Senior Reactor Operator license for both Beaver Valley Unit 1 and Unit 2. He is a graduate of the INPO senior nuclear plant manager course.



Gregory H. Halnon

Director Fleet Regulatory Affairs
FirstEnergy Nuclear Operating Corp.

Mr. Greg Halnon is the FirstEnergy Fleet Director of Nuclear Regulatory Affairs.

Mr. Halnon began his career in 1981 as a system engineer for the fossil fleet at Florida Power Corporation in St. Petersburg Florida. He later moved into nuclear as a system engineer for the Crystal River Nuclear Plant in HVAC and mechanical-thermal systems. Mr. Halnon has over 28 years in engineering, operations, regulatory affairs, quality, and line management of nuclear power stations. He has held two Senior Reactor Operator licenses and is a registered professional mechanical engineer in the state of Florida. He was the site general manager at V.C. Summer Nuclear Station and was the point man in leading the station through the Hot Leg crack event in 2000/2001. He was also the Plant Operations Manager for Salem Units 1 and 2 during 2003-2004. He has extensive B&W and Westinghouse plant experience.

Mr. Halnon received his Bachelor of Science in Mechanical Engineering from the University of Central Florida after doing undergraduate agricultural technology research for Virginia Tech. He completed the INPO Senior Plant Managers Professional Development in 1997. He is a qualified ABET evaluator for the American Nuclear Society and performed accreditation review visits for the nuclear engineering programs at Purdue University, University of Missouri at Rolla and Three Rivers Community College.

Mr. Halnon is a life member of the American Nuclear Society and American Society of Mechanical Engineers. He served as the president of the Fairfield County Chamber of Commerce from 2001 to 2004. He presently serves as the Minister of Music for Northampton Bible Church in Cuyahoga Falls, Ohio.



Paul A. Harden

Vice President – Beaver Valley Power Station
FirstEnergy Nuclear Operating Company

Paul A. Harden is the Beaver Valley Site Vice president for FENOC.

Paul joined FirstEnergy in January of 2008 as Vice President, Nuclear Support.

Prior to joining FirstEnergy, he worked for Nuclear Management Company in Hudson, Wisconsin, where he was the Fleet Vice President, Projects and Engineering. In addition, from 2001-2007 he also held positions of Site Vice President, Director of Site Operations, and Director of Engineering at the Palisades Nuclear Plant in Michigan, as well as a temporary assignment as a Recovery Officer for the Kewaunee Nuclear Plant in Wisconsin.

Prior to Nuclear Management Company, Paul held various positions with Consumers Energy, the previous owner of the Palisades Nuclear Plant. Starting in 1990, he worked in the areas of radiation protection, nuclear engineering, operations and design engineering. He also served in the U.S. Navy reserves as an electronics technician from 1985 to 1992.

Paul earned a Bachelor of Science degree in Nuclear Engineering from the University of Cincinnati and an MBA from the University of Notre Dame. In addition, he has held an active Senior Reactor Operator License and is a Registered Professional Engineer in Michigan.



Raymond A. Lieb

Director of Site Operations - Beaver Valley Power Station
FirstEnergy Nuclear Operating Company

Raymond A. Lieb is Director of Site Operations at Beaver Valley Power Station for FirstEnergy Nuclear Operating Company (FENOC), a subsidiary of FirstEnergy Corp

FirstEnergy Corp. Experience:

- | | |
|-----------------|--|
| 2009 to Present | <i>Director, Site Operations</i> Beaver Valley Power Station |
| 2008 to 2009 | <i>Director, Work and Outage Management</i> Beaver Valley Power Station |
| 2007 to 2008 | <i>Manager, Work Management</i> Beaver Valley Power Station |
| 2006 to 2007 | <i>Loaned Employee to Institute of Nuclear Power Operations</i> Atlanta, GA |
| 2002 to 2006 | <i>Manager, Plant Engineering</i> Beaver Valley Power Station |
| 2001 to 2002 | <i>Operations Shift Manager</i> Beaver Valley Power Station |
| 1996 to 2001 | <i>Operations Unit Supervisor</i> Beaver Valley Power Station |

Mr. Lieb previously held an SRO license for Beaver Valley Unit 1. He is also a graduate of the INPO Senior Nuclear Plant Manager Course

Prior to joining the Company, Mr. Lieb was employed by the Tennessee Valley Authority as a Licensed SRO at the Sequoyah Nuclear Power Station. Prior to the Tennessee Valley Authority, Mr. Lieb was an officer in the United States Navy, serving in the submarine fleet.

Mr. Lieb earned a Bachelor of Science degree in Chemical Engineering from Pennsylvania State University and a Masters in Engineering Management degree from Old Dominion University.

TAB 9-BVPS

Biographical Data of NRC Personnel



Name and Current Title: David Werkheiser, Senior Resident Inspector,
Beaver Valley 1 & 2

Date Assigned to Present Position: July 08, 2007

Previous NRC Positions:

- 06/2006 – 07/2007: Region 1, Resident Inspector, Beaver Valley 1 & 2
(Reported May 28, 2006)
- 03/2006 – 06/2006: Region 1, Reactor Inspector, Engineering Branch 3, Division of Reactor Safety
- 01/2006 - 03/2006: Region 1, Acting Senior Resident Inspector, Millstone Units 2 & 3
- 06/2005 - 09/2005: Region 1, Acting Resident Inspector, Millstone Units 2 & 3
- 04/2003 - 05/2006: Region 1, Reactor Inspector, Engineering Branch 3, Division of Reactor Safety

Other Work Experience:

- 06/1999 - 04/2003: Pennsylvania State University, NRC-licensed Senior Reactor Operator and Researcher.
- 06/2001 - 12/2002: Naval Nuclear Propulsion and Nuclear Defense Research: USDOE Graduate Fellow, performed various research and design projects on control room design and human to machine interfacing.
- 11/1988 - 05/1997: United States Navy: Nuclear-trained Electronics Technician / Prototype Instructor (S1C) / Fast Attack Submarine (637-class) / Engineering Supervisor / SRO / RO.

Education:

- December 2002: Pennsylvania State University, University Park PA.
Master of Science / Nuclear Engineering,
Minor in High Performance / Cluster Computing
- May 2001: Pennsylvania State University, University Park PA.
Bachelor of Science Nuclear Engineering

Present Residence:

(b)(6)

Family Information:

(b)(6)

Name and Current Title: Erin Bonney, Resident Inspector,
Beaver Valley 1 & 2

Date Assigned to Present Position: March 1, 2010

Previous NRC Positions:

01/09 – 02/010: Reactor Inspector (Region 1, Engineering Branch 2)

Other Work Experience: CE:

12/2003 – 12/2008: United States Navy, Propulsion Plant Watch Officer,
Gunnery Officer,
Damage Control Equipment Officer



Education:

05/2003: Tulane University, Bachelor of Science Engineering, Chemical Engineering

Present Residence:

Family Information:

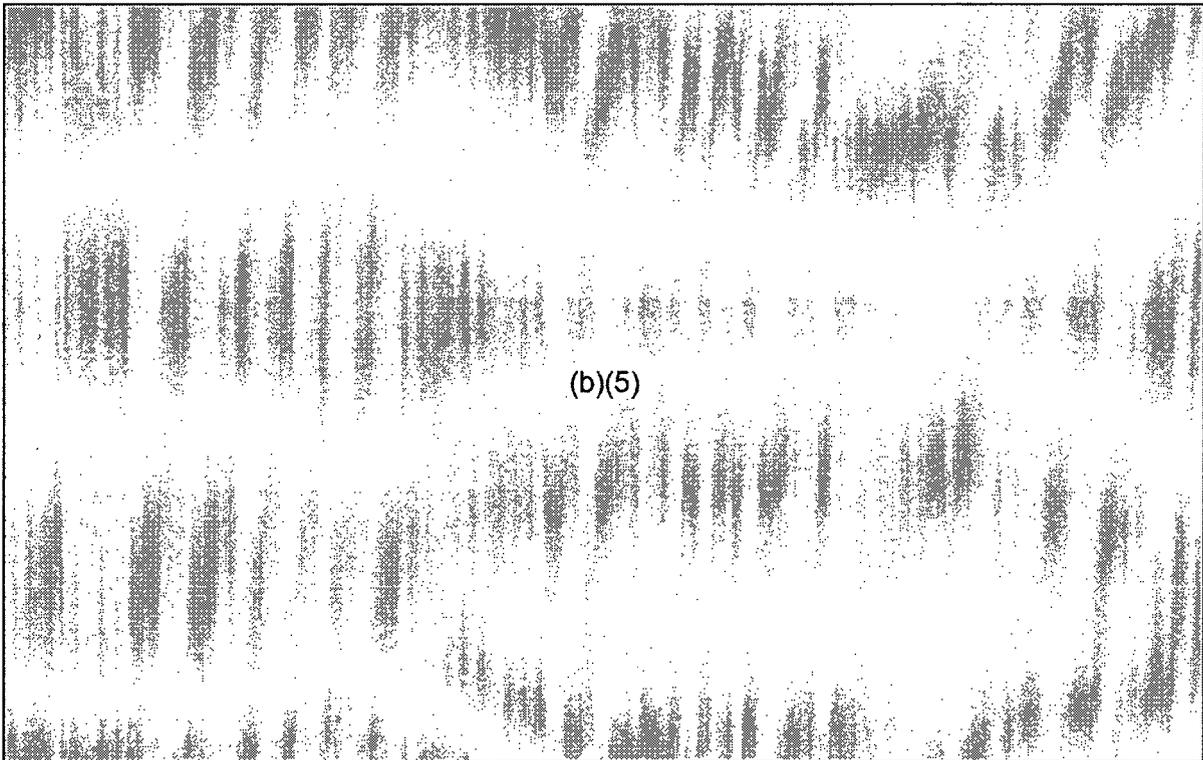
From: Inverso, Tara
To: Ruland, William; Gibson, Kathy; Acer, Charles; McGinty, Tim
Cc: Helton, Shana; Quay, Theodore; Flanagan, Michelle; Landry, Ralph; Clifford, Paul; Mizuno, Geary; Lee, Richard
Subject: Response Requested: 50.46(b) Deliverables/Milestones
Date: Wednesday, March 16, 2011 10:13:49 AM

Good morning,

The working group developed a revised schedule based on the extended due date, and upcoming ACRS meetings. The working group is in agreement that RES will provide, by May 20th, a revised RIL. This RIL would reference a larger technical document; the larger technical document (perhaps a NUREG) would contain the evaluation and conclusions of the research into the mechanical properties of the balloon, and the fuel fragmentation/dispersal phenomenon. These conclusions, and the impact these conclusions have on RIL-0801's findings, would be described in the revised RIL. (This is similar to the relationship between RIL-0801 and NUREG-6967.)

Please respond to this e-mail by COB Thursday, 3/17, regarding your alignment on the following:

- o **May 20, 2011- Revised RIL and supporting technical documents**



Please let me know if you have any questions.

Thank you,

Tara

AS/131

Tara Inverso, Project Manager
Rulemaking Branch
O12-D21 / (301)-415-1024 / Tara.inverso@nrc.gov

From: Johnson, Deborah
To: Cheok, Michael; Lee, Samson; Klein, Alex
Cc: Heida, Bruce
Subject: FW: Monthly Contract Meeting Report - One Pager
Date: Wednesday, March 16, 2011 11:21:20 AM
Attachments: DRA Contract Mgmt Report Feb2011 One-Pager.pdf

Per request. I asked Camillea to schedule a meeting next week (Tuesday or Wednesday).

From: Yee, Linda
Sent: Tuesday, February 15, 2011 7:55 AM
To: Cunningham, Mark
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce; Daniel, Richard
Subject: RE: Monthly Contract Meeting Report - One Pager

Hi Mark,

As discussed during our meeting yesterday, attached is the revised monthly contract status report with the FY-2011 Expended APP Projection column removed.

Please let me know if you have any questions.

Thanks,

Linda

Linda Yee
301.415.3072

From: Cunningham, Mark
Sent: Friday, February 04, 2011 7:59 AM
To: Yee, Linda
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce
Subject: RE: Monthly Contract Meeting Report - One Pager

Sometime next week is fine.

From: Yee, Linda
Sent: Thursday, February 03, 2011 6:50 PM
To: Cunningham, Mark
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce
Subject: RE: Monthly Contract Meeting Report - One Pager

Hi Mark,

I was out of the office today and will be out tomorrow. (b)(6)
(b)(6) Is it possible to meet sometime next week. I will be at the PDC on training Monday and Tuesday but am thinking about possibly rescheduling it due to workload. I will keep you posted if I do.

Thanks,

AS/132

Linda

Linda Yee
301.415.3072

From: Cunningham, Mark
Sent: Thursday, February 03, 2011 1:23 PM
To: Yee, Linda
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce
Subject: RE: Monthly Contract Meeting Report - One Pager

Linda: if you're in tomorrow (Friday), could we spend 15 minutes finalizing the report?

Thanks.

Mark

From: Yee, Linda
Sent: Monday, January 24, 2011 7:21 AM
To: Cunningham, Mark
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce
Subject: RE: Monthly Contract Meeting Report - One Pager

Hi Mark,

The Original (APP) Spending Plan Total column is for the entire year. The Spending Plan Total is also for the entire year but it also includes the actual expenditures. The only column that shows up to the current time information is the FY 2011 Expended column. If you would like me to add another column or tweak an existing column to only show what the spending plan is up to the current time, I can do so.

We can meet for a few minutes to finalize the report if you like. Please let me know.

Thanks,

Linda

Linda Yee
301.415.3072

From: Cunningham, Mark
Sent: Friday, January 21, 2011 3:57 PM
To: Yee, Linda
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce
Subject: RE: Monthly Contract Meeting Report - One Pager

Is this total up to the current time (what I was thinking about) or for the entire year?

From: Yee, Linda
Sent: Friday, January 21, 2011 3:44 PM
To: Cunningham, Mark
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce

Subject: RE: Monthly Contract Meeting Report - One Pager

Hi Mark,

The new column, Original (APP) Spending Plan Total, has been added to the report (attached).

Thanks,

Linda

Linda Yee
301.415.3072

From: Cunningham, Mark
Sent: Friday, January 21, 2011 2:55 PM
To: Yee, Linda
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce
Subject: RE: Monthly Contract Meeting Report - One Pager

This is very close to what I'm looking for. Can you add a column that shows what the APP "prediction" of spending would be vs. the actual expenditures?

Thanks.

Mark

From: Yee, Linda
Sent: Thursday, January 20, 2011 3:58 PM
To: Cunningham, Mark
Cc: Weerakkody, Sunil; Lee, Samson; Johnson, Deborah; Heida, Bruce
Subject: Monthly Contract Meeting Report - One Pager
Importance: High

Hi Mark,

Per our contract meeting on Tuesday, please find attached a one-page report that reflects the following:

- Base JCN with a rollup of task orders
- DOE Lab associated with JCN (to confirm, J-4440 will be with BNL not PNNL)
- Title of contract
- C/O (Carryover)
- FY 2011 Budget Request (what we requested for this FY)
- FY 2011 Budget Received (what we have received thus far for this FY)
- FY 2011 Obligated (what we obligated thus far for this FY)
- Total C/O & Budget (=Carryover + FY 2011 Budget)
- FY 2011 Expended (what was spent thus far for this FY)
- Remaining FY 2011 Budget (= Total C/O & Budget – Total of MLSRs)
- Spending Plan Total (Total amount of spending plan projections, which includes actual expenditures)

- Excess Funds (= Total C/O & Budget – Spending Plan Total)
- Comments

Please look it over and let me know if this is something you would like me to maintain and provide to you during our monthly meetings. If you have any suggestions or comments, please feel free to provide.

Thanks,

Linda

Linda Yee
Technical Assistant Project Manager
PMDA Contract Management Branch
Office of Nuclear Reactor Regulation
Tel: 301.415.3072
Fax: 301.415.3707
Linda.Yee@nrc.gov

| JCN | DOE Lab. | Title | C/O | FY-2011 | FY-2011 | FY-2011 | Total C/O | C/O | FY-2011 | Spending | Remaining | FY-2011 | Excess | Comments |
|--------|----------|-------|-----|---------|---------|---------|-----------|-----|---------|----------|--------------------|---------|--------|----------|
| | | | | Budget | Budget | | | | | | Obligated & Budget | | | |
| (b)(5) | | | | | | | | | | | | | | |

From: Bowman, Gregory
To: Coyne, Kevin
Cc: Armstrong, Kenneth; Correia, Richard; Coe, Doug; Stutzke, Martin; Hudson, Daniel
Subject: RE: Tracking List Update
Date: Wednesday, March 16, 2011 11:28:19 AM

That helps. I think they have the pre-agenda planning meeting tomorrow. I'll let you know if get any additional questions.

(b)(5)

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 8:47 AM
To: Bowman, Gregory
Cc: Armstrong, Kenneth; Correia, Richard; Coe, Doug; Stutzke, Martin; Hudson, Daniel
Subject: RE: Tracking List Update

Greg –

(b)(5)

Hope this helps explain the basis – definitely let me know if you need more information –

Kevin

From: Bowman, Gregory
Sent: Wednesday, March 16, 2011 8:20 AM
To: Coyne, Kevin
Cc: Armstrong, Kenneth
Subject: RE: Tracking List Update

I spoke with Jim briefly about the scheduling note.

(b)(5)

AS/133

From: Zaki, Tarek
To: Gavrilas, Mirela; Coyne, Kevin
Cc: Scott, Michael; Case, Michael; Coe, Doug; Richards, Stuart; Gibson, Kathy
Subject: RE: NRO Mtg -- get ready for action
Date: Wednesday, March 16, 2011 11:33:25 AM

Mirela/Kevin;

Thanks again for your quick feedback/input yesterday.

Yes, please provide any changes you would like to make to the info you provided

(b)(5)

BTW, Mike and I had a meeting with NRO this morning on FY13 budget, I'm working on a summary and I'll forward it to you shortly.

Thanks,
Tarek

From: Gavrilas, Mirela
Sent: Wednesday, March 16, 2011 10:07 AM
To: Zaki, Tarek; Scott, Michael; Coyne, Kevin
Cc: Kelly, Joseph; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah; Csontos, Aladar; Sydnor, Russell; Hogan, Rosemary; Graves, Herman; Case, Michael
Subject: RE: NRO Mtg -- get ready for action

Tarek,

(b)(5)

Thanks,
M.

AS/134

From: [QTE Resource](#)
To: [Ramadan, Liliana](#)
Cc: [QTE Resource](#)
Subject: Files Attached. DO#405a. RE: RES-DG1269 (Liliana Ramadan, RES)
Date: Wednesday, March 16, 2011 11:39:42 AM
Attachments: [LRamadan1_129 Draft Regulatory Guide_2_clean.doc](#)
[LRamadan1_129 Draft Regulatory Guide_2_compare.doc](#)
[Author Notes.docx](#)

Liliana,

I have attached the clean and compare files for your document: **DRAFT REGULATORY GUIDE DG-1269**

(~14 double-spaced pages) (LRamadan1_129 Draft Regulatory Guide_2.doc) for Liliana Ramadan, RES.

Please use the clean file for future revisions. The compare file details all recommended changes. The Author Notes file includes additional comments.

Please consider this e-mail evidence of technical editor concurrence with the suggested changes. The author may accept or reject any of these changes. Please feel free to contact QTE with any questions or concerns.

Thanks,

Jay Dougherty

QTE.Resource@nrc.gov
<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: Ramadan, Liliana
Sent: Friday, March 11, 2011 8:51 AM
To: QTE Resource
Subject: RES-DG1269
Importance: High

Please tech-edit the attached.

AS/135

Thanks,

Lily Ramadan

Project Manager-Electrical Engineering Branch

U.S. Nuclear Regulatory Commission

11555 Rockville Pike

Rockville, MD 20850

301-251-7642



U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REGULATORY RESEARCH

March 2011
Division 1

DRAFT REGULATORY GUIDE

Contact: L. Ramadan
(301) 251-7642

DRAFT REGULATORY GUIDE DG-1269 *(Proposed Revision 3 of Regulatory Guide 1.129, dated February 2007)*

(b)(5)

**Author Notes
DG-1269
March 16, 2011**

(b)(5)

From: [Aggarwal, Satish](#)
To: [Chopra, Om](#)
Cc: [Mathew, Roy](#); [Koshy, Thomas](#); [Orr, Mark](#); [Case, Michael](#)
Subject: Draft Regulatory Guide DG-1244 (Rev 1 to Regulatory Guide 1.93): Request for an Informal Review
Date: Wednesday, March 16, 2011 12:00:26 PM
Attachments: [193 DG-1244 Comments \(2\).docx](#)
[dg1244May 2011.docx](#)

As we recently discussed, attached for your review are the following two documents:

1. A marked-up copy of DG-1244, "Availability of electric Power Sources." The changes as marked resulted from the resolution of public comments.
2. Response to Public Comments.

(b)(5)

Further, the Attachment 1 will be reformatted for "final" Regulatory Guide.

Thanks.

sa

AS/136

**Response to Public Comments for Draft Regulatory Guide DG-1244,
“Availability of Electric Power Sources”
Proposed Revision 1 of Regulatory Guide 1.93, dated December 1974**

A notice that DG-1244 (proposed Revision 1 of Regulatory Guide 1.93) was available for public comment was published in the Federal Register on September 24, 2010, (75 FR 58444). The following comments were received and the final version of revision 1 of Regulatory Guide 1.93 incorporates the NRC resolutions described below.

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|--------|--------------------|------------|------------------|----------------|
| (b)(5) | | | | |

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|--------|--------------------|------------|------------------|----------------|
| (b)(5) | | | | |

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|--------|--------------------|------------|------------------|----------------|
| (b)(5) | | | | |

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|--------|--------------------|------------|------------------|----------------|
| (b)(5) | | | | |

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|--------|--------------------|------------|------------------|----------------|
| (b)(5) | | | | |

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

¹ DG-1244, at 12

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
| | | | | |

(b)(5)

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|--------|--------------------|------------|------------------|----------------|
| (b)(5) | | | | |

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

(b)(5)

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

(b)(5)

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

| No. | Section of DG-1244 | Originator | Specific Comment | NRC Resolution |
|-----|--------------------|------------|------------------|----------------|
|-----|--------------------|------------|------------------|----------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|



U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REGULATORY RESEARCH

September 2010
Division 1

DRAFT REGULATORY GUIDE

Contact: S. Aggarwal
(301) 251-7627

(b)(5)

AS/137

(b)(5)

March 22, 2011

MEMORANDUM TO: Chairman Jaczko
Commissioner Svinicki
Commissioner Apostolakis
Commissioner Magwood
Commissioner Ostendorff

FROM: Annette L. Vietti-Cook, Secretary /s/

SUBJECT: DRAFT CHAIRMAN TASKING MEMORANDUM – COMGBJ-11-0002 – NRC ACTIONS FOLLOWING THE EVENTS IN JAPAN

Attached is the draft Chairman tasking memorandum on COMGBJ-11-0002. Your response is requested as soon as practical today.

The attached tasking memorandum, the subject COM, and the individual Commissioner votes are considered to be "final Commission decisions" and as such will be released to the public upon issuance.

Attachment:
As stated

cc: EDO
OGC
OPA
OCA

AS/138

(b)(5)

(b)(5)

(b)(5)

(b)(5)

From: Ake, Jon
To: Beasley, Benjamin; Burnell, Scott; Manoly, Kamal; Hiland, Patrick; Skeen, David; Stutzke, Martin
Cc: Ferrante, Fernando; Laur, Steven; Chokshi, Nilesh; Coyne, Kevin
Subject: RE: NBC deadline question for NRC on seismic hazard estimates
Date: Wednesday, March 16, 2011 12:33:51 PM

(b)(5)

From: Beasley, Benjamin
Sent: Wednesday, March 16, 2011 10:31 AM
To: Burnell, Scott; Manoly, Kamal; Hiland, Patrick; Skeen, David; Stutzke, Martin
Cc: Ferrante, Fernando; Laur, Steven; Chokshi, Nilesh; Coyne, Kevin; Ake, Jon
Subject: RE: NBC deadline question for NRC on seismic hazard estimates

Scott,

(b)(5)

Ben

(b)(5)

From: Burnell, Scott
Sent: Wednesday, March 16, 2011 11:11 AM
To: Manoly, Kamal; Hiland, Patrick; Skeen, David; Stutzke, Martin; Beasley, Benjamin
Cc: Ferrante, Fernando; Laur, Steven; Chokshi, Nilesh
Subject: RE: NBC deadline question for NRC on seismic hazard estimates
Importance: High

Folks;

The expected calls are coming in – We need a better response ASAP! Thanks!

AS/139

Scott

From: Manoly, Kamal
Sent: Wednesday, March 16, 2011 9:53 AM
To: Hiland, Patrick; Skeen, David; Stutzke, Martin; Beasley, Benjamin; Burnell, Scott
Cc: Ferrante, Fernando; Laur, Steven; Chokshi, Niles
Subject: FW: NBC deadline question for NRC on seismic hazard estimates

(b)(5)

From: Bill Dedman [mailto:Bill.Dedman@msnbc.com]
Sent: Wednesday, March 16, 2011 6:44 AM
To: Manoly, Kamal; Sheron, Brian; Hiland, Patrick; OPA Resource
Subject: RE: NBC deadline question for NRC on seismic hazard estimates

This story is online now. If you see any error, please let me know right away.

Thanks,

Bill

http://www.msnbc.msn.com/id/42103936/ns/world_news-asiapacific/

From: Bill Dedman
Sent: Tuesday, March 15, 2011 9:06 AM
To: 'Kamal.Manoly@nrc.gov'; 'brian.sheron@nrc.gov'; 'patrick.hiland@nrc.gov'; 'OPA.Resource@nrc.gov'
Subject: NBC deadline question for NRC on seismic hazard estimates

Good morning,

My name is Bill Dedman. I'm a reporter for NBC News and msnbc.com, writing an article today about:

SAFETY/RISK ASSESSMENT RESULTS FOR GENERIC ISSUE 199, "IMPLICATIONS OF UPDATED PROBABILISTIC SEISMIC HAZARD ESTIMATES IN CENTRAL AND EASTERN UNITED STATES ON EXISTING PLANTS"

I reached out to NRC Public Affairs yesterday but have not heard back, and my deadline is end-of-day today. I'm hoping to get on the phone today with someone from NRC to make sure I'm conveying this information accurately to the public. If nothing else, I'm hoping one of the technical people can help clarify the points below. My telephone number is 203-451-9995.

I've read Director Brian Sheron's memo of Sept. 2, 2010, to Mr. Patrick Hiland; the safety/risk assessment of August 2010; its appendices A through D; NRC Information Notice 2010-18; and the fact sheet from public affairs from November 2010.

I have these questions:

1. I'd like to make sure that I accurately place in layman's terms the seismic hazard estimates. I need to make sure that I'm understanding the nomenclature for expressing the seismic core-damage frequencies. Let's say there's an estimate expressed as "2.5E-06." (I'm looking at Table D-2 of the safety/risk assessment of August 2010.) I believe that this expression means the same as 2.5×10^{-06} , or 0.0000025, or 2.5 divided by one million. In layman's terms, that means an expectation, on average, of 2.5 events every million years, or once every 400,000 years. Similarly, "2.5E-05" would be 2.5 divided by 100,000, or 2.5 events every 100,000 years, on average, or once every 40,000 years. Is this correct?
2. These documents give updated probabilistic seismic hazard estimates for existing nuclear power plants in the Central and Eastern U.S. What document has the latest seismic hazard estimates (probabilistic or not) for existing nuclear power plants in the Western U.S.?
3. The documents refer to newer data on the way. Have NRC, USGS et al. released those? I'm referring to this: "New consensus seismic-hazard estimates will become available in late 2010 or early 2011 (these are a product of a joint NRC, U.S. Department of Energy, U.S. Geological Survey (USGS) and Electric Power Research Institute (EPRI) project). These consensus seismic hazard estimates will supersede the existing EPRI, Lawrence Livermore National Laboratory, and USGS hazard estimates used in the GI-199 Safety/Risk Assessment."
4. What is the timetable now for consideration of any regulatory changes from this research?

Thank you for your help.

Regards,

Bill Dedman

This e-mail message and attached documents are confidential; intended only for the named recipient(s) above and may contain information that is privileged, confidential, proprietary, and/or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any unauthorized use, dissemination, distribution or copy of this communication is strictly prohibited. No waiver of privilege, confidence or otherwise is intended by virtue of this communication. If you have received this message in error, or are not the named recipient(s), please immediately notify the sender, destroy all copies and delete this e-mail message from your computer. Thank you.

From: Chokshi, Niles
To: Beasley, Benjamin; Burnell, Scott; Manoly, Kamal; Hiland, Patrick; Skeen, David; Stutzke, Martin
Cc: Ferrante, Fernando; Laur, Steven; Coyne, Kevin; Ake, Jon
Subject: RE: NBC deadline question for NRC on seismic hazard estimates
Date: Wednesday, March 16, 2011 12:35:40 PM

(b)(5)

From: Beasley, Benjamin
Sent: Wednesday, March 16, 2011 12:31 PM
To: Burnell, Scott; Manoly, Kamal; Hiland, Patrick; Skeen, David; Stutzke, Martin
Cc: Ferrante, Fernando; Laur, Steven; Chokshi, Niles; Coyne, Kevin; Ake, Jon
Subject: RE: NBC deadline question for NRC on seismic hazard estimates

Scott,

(b)(5)

Ben

(b)(5)

From: Burnell, Scott
Sent: Wednesday, March 16, 2011 11:11 AM
To: Manoly, Kamal; Hiland, Patrick; Skeen, David; Stutzke, Martin; Beasley, Benjamin
Cc: Ferrante, Fernando; Laur, Steven; Chokshi, Niles
Subject: RE: NBC deadline question for NRC on seismic hazard estimates
Importance: High

Folks;

AS/140

(b)(5)

Scott

From: Manoly, Kamal
Sent: Wednesday, March 16, 2011 9:53 AM
To: Hiland, Patrick; Skeen, David; Stutzke, Martin; Beasley, Benjamin; Burnell, Scott
Cc: Ferrante, Fernando; Laur, Steven; Chokshi, Nilesh
Subject: FW: NBC deadline question for NRC on seismic hazard estimates

(b)(5)

From: Bill Dedman [mailto:Bill.Dedman@msnbc.com]
Sent: Wednesday, March 16, 2011 6:44 AM
To: Manoly, Kamal; Sheron, Brian; Hiland, Patrick; OPA Resource
Subject: RE: NBC deadline question for NRC on seismic hazard estimates

This story is online now. If you see any error, please let me know right away.

Thanks,

Bill

http://www.msnbc.msn.com/id/42103936/ns/world_news-asiapacific/

From: Bill Dedman
Sent: Tuesday, March 15, 2011 9:06 AM
To: 'Kamal.Manoly@nrc.gov'; 'brian.sheron@nrc.gov'; 'patrick.hiland@nrc.gov'; 'OPA.Resource@nrc.gov'
Subject: NBC deadline question for NRC on seismic hazard estimates

Good morning,

My name is Bill Dedman. I'm a reporter for NBC News and msnbc.com, writing an article today about:

SAFETY/RISK ASSESSMENT RESULTS FOR GENERIC ISSUE 199, "IMPLICATIONS OF UPDATED PROBABILISTIC SEISMIC HAZARD ESTIMATES IN CENTRAL AND EASTERN UNITED STATES ON EXISTING PLANTS"

I reached out to NRC Public Affairs yesterday but have not heard back, and my deadline is end-of-day today. I'm hoping to get on the phone today with someone from NRC to make sure I'm conveying this information accurately to the public. If nothing else, I'm hoping one of the technical people can help clarify the points below. My telephone number is 203-451-9995.

I've read Director Brian Sheron's memo of Sept. 2, 2010, to Mr. Patrick Hiland; the safety/risk assessment of August 2010; its appendices A through D; NRC Information Notice 2010-18; and the fact sheet from public affairs from November 2010.

I have these questions:

1. I'd like to make sure that I accurately place in layman's terms the seismic hazard estimates. I need to make sure that I'm understanding the nomenclature for expressing the seismic core-damage frequencies. Let's say there's an estimate expressed as "2.5E-06." (I'm looking at Table D-2 of the safety/risk assessment of August 2010.) I believe that this expression means the same as 2.5×10^{-06} , or 0.0000025, or 2.5 divided by one million. In layman's terms, that means an expectation, on average, of 2.5 events every million years, or once every 400,000 years. Similarly, "2.5E-05" would be 2.5 divided by 100,000, or 2.5 events every 100,000 years, on average, or once every 40,000 years. Is this correct?
2. These documents give updated probabilistic seismic hazard estimates for existing nuclear power plants in the Central and Eastern U.S. What document has the latest seismic hazard estimates (probabilistic or not) for existing nuclear power plants in the Western U.S.?
3. The documents refer to newer data on the way. Have NRC, USGS et al. released those? I'm referring to this: "New consensus seismic-hazard estimates will become available in late 2010 or early 2011 (these are a product of a joint NRC, U.S. Department of Energy, U.S. Geological Survey (USGS) and Electric Power Research Institute (EPRI) project). These consensus seismic hazard estimates will supersede the existing EPRI, Lawrence Livermore National Laboratory, and USGS hazard estimates used in the GI-199 Safety/Risk Assessment."
4. What is the timetable now for consideration of any regulatory changes from this research?

Thank you for your help.

Regards,

Bill Dedman

This e-mail message and attached documents are confidential; intended only for the named recipient(s) above and may contain information that is privileged, confidential, proprietary, and/or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any unauthorized use, dissemination, distribution or copy of this communication is strictly prohibited. No waiver of privilege, confidence or otherwise is intended by virtue of this communication. If you have received this message in error, or are not the named recipient(s), please immediately notify the sender, destroy all copies and delete this e-mail message from your computer. Thank you.

Matakas, Gina

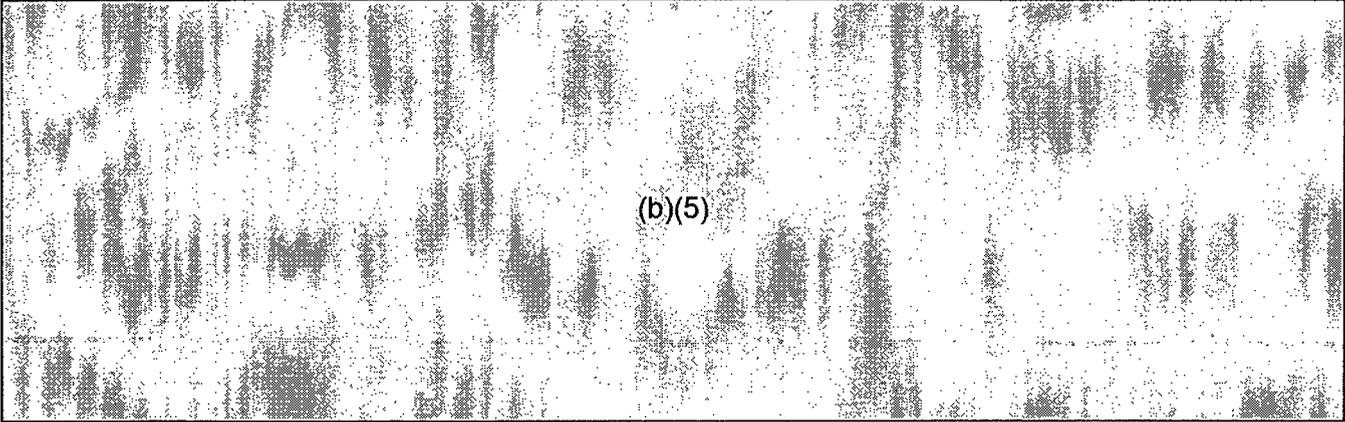
From: Wilson, Peter
Sent: Wednesday, March 16, 2011 1:00 PM
To: Dean, Bill; Lew, David
Cc: Weerakkody, Sunil
Subject: FW: Update On Calvert Cliffs SGI Special Inspection
Attachments: SGI Compensatory Actions.pdf

(b)(5)

From: Kennedy, Silas
Sent: Wednesday, March 16, 2011 10:29 AM
To: Wilson, Peter; Weerakkody, Sunil
Cc: Clifford, James; Roberts, Darrell; Dentel, Glenn; Perry, Neil; Richart, Paul; Wilson, Ernest; Bream, Jeffrey; Caron, Dana; Cherubini, John; Dimitriadis, Anthony; Everhart, Dave; Smith, George; Yip, Brian
Subject: Update On Calvert Cliffs SGI Special Inspection

~~OFFICIAL USE ONLY – SECURITY-RELATED INFORMATION~~

(b)(5)



We are evaluating when the SIT will return to the site.

Sincerely,

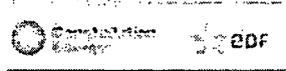
Silas

Silas Kennedy
NRC/RI/PSB1
Acting Chief
610-337-5186 wk
(b)(6) cell

~~—OFFICIAL USE ONLY—SECURITY-RELATED INFORMATION—~~

STATION POLICY # 19
Required Compensatory Actions for Handling of Safeguards Information
(SGI)
Rev. 0001

CENG



CALVERT CLIFFS
NUCLEAR POWER PLANT

February 9, 2011

TO: Site Distribution

FROM: Tom Trepanier (*Original Signed by TET 02/09/11*)
Plant General Manager – Calvert Cliffs Nuclear Power Plant (CCNPP)

SUBJECT: CCNPP Station Policy #19 – Required Compensatory Actions for the
Handling of Safeguards Information (SGI)

1.0 PURPOSE

These compensatory actions will be in effect until corrective actions to prevent reoccurrence have been completed and/or further causal evaluation determines the measure is no longer applicable. These compensatory actions are in effect immediately.

2.0 SCOPE

This policy applies to all site personnel.

3.0 DEFINITIONS AND ABBREVIATIONS

SGI – Safeguards Information

4.0 RESPONSIBILITIES

- 4.1 A Pre-Job Brief is required from a supervisor prior to performing a task requiring access to SGI. If a supervisor will be performing the task, that supervisor must receive a Pre-Job Brief from another supervisor. (CA-2011-000402)
- 4.2 Personnel handling SGI will wear orange “SGI User” badges. (CA-2010-005942)
- 4.3 Personnel shall utilize orange chains as a barrier in areas where SGI is being handled. (CA-2010-005942)
- 4.4 Personnel shall utilize a Sign In/Out Log when removing and returning SGI from an approved storage location. (CA-2010-005942)

STATION POLICY # 19

Required Compensatory Actions for Handling of Safeguards Information
(SGI)

Rev. 0001

- 4.5 Laminated SGI labels shall be affixed to all SGI flash drives. (CA-2011-000401)
- 4.6 All SGI flash drives shall be stored inside a Security SGI cabinet and require approval from the Manager-NS&S (or Director-Nuclear Security) for use. If use of a flash drive is authorized by the Director-Nuclear Security, the Manager-NS&S will be informed as soon as possible. (CA-2011-000402)
- 4.7 A peer check is required for signing-out SGI and returning SGI to SGI storage containers on-site. (CA-2011-000402)
- 4.8 The creation of new SGI onsite on any media requires approval from Director-Nuclear Security or Manager-NS&S, or their designee during their absence. Creation of SGI refers to both the development of new SGI or reproduction, either hardcopy or electronic, of current SGI. (CA-2011-000402)
- 4.9 Personnel who download any digital document or file from an SGI computer onto any portable media (flash drives, CDs, laptops, etc.) thus establishing the potential for creating new SGI, shall obtain a peer check of the downloaded documents for the unplanned presence of SGI prior to removing those media from the secure location. (CA-2011-000533)
- 4.10 The Director-Nuclear Security will direct that at least one documented supervisory observation of SGI activities per week be conducted to assure that the Compensatory Measures and SGI program requirements are being met. (CA-2011-000534)
- 4.11 The Manager-NS&S shall provide direction to off-site holders and users of SGI regarding Compensatory Measures to be implemented at those locations. (CA-2011-000536)

(Original Signed by TET 02/09/11)

Tom Trepanier
Plant General Manager - Calvert Cliffs

STATION POLICY # 19
Required Compensatory Actions for Handling of Safeguards Information
(SGI)
Rev. 0001

**Written Pre-Job Brief
Handling of Safeguards Information**

Pre-Requisites:

- Personnel entering Safeguards cabinet are trained in handling SGI.
- Personnel entering Safeguards cabinet have been verified by checking the CENG SGI Access List.
- Personnel entering Safeguards cabinet and handling SGI documents have need to know for the task at hand.
- **Supervisor or above has given permission to use SGI**

NOTE:

SGI cannot be copied or created without the permission of the Director-Nuclear Security or the Manager-NS&S (or their designee in their absence).

1. Open Safeguards cabinet.
2. Remove SGI lanyards and place around respective individual's necks.
3. Remove SGI chains and mounting equipment as needed to take SGI to the work site. If needed to properly cordon off the work area, see SGI Coordinator (currently Brenda Reid) to obtain SGI chain with stanchions.
4. Remove needed documents from the SGI cabinet.
5. Log the appropriate document name and number on the SGI sign-out card located in the SGI cabinet.
6. **Peer Check the proper documentation of the sign-out card.**
7. Reinsert the SGI sign-out card into the SGI cabinet.
8. Close and relock the SGI cabinet.
9. **Peer check closure of the SGI cabinet, lock and hasp.**
10. Remove the SGI and relocate same to the appropriate work location.
11. Set up appropriate barriers for working with SGI.
12. Perform work as required while maintaining proper control of SGI.
13. Upon completion of the work, disassemble the work area and return the SGI to the Safeguard cabinet.
14. Open the Safeguards cabinet.
15. **Check in the SGI on the sign-out card. Perform peer check that all SGI removed has been returned to the cabinet.**
16. Reinsert all SGI lanyards and chains.
17. **Perform Last check by doer and peer to ensure positive control of SGI.**
18. **Peer check closure of the SGI cabinet, lock and hasp.**

From: Coyne, Kevin
To: Coe, Doug
Subject: RE: 2011 Staffing Issues Meeting
Date: Wednesday, March 16, 2011 1:00:15 PM

Doug –

Just for your planning, if I'm not able to backfill for the loss of Dan O'Neal or fill the GG-13, I will likely need to shed work in PRAB. I don't have much additional capacity within the staff and Jeff cannot continue to cover the SAPHIRE project with his current workload.

-Kevin

From: Coe, Doug
Sent: Wednesday, March 16, 2011 12:47 PM
To: Coyne, Kevin
Cc: Correia, Richard
Subject: RE: 2011 Staffing Issues Meeting

We'll make every effort to do so Kevin. Understand your interest/need in getting a firm decision.

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 12:44 PM
To: Coe, Doug
Cc: Correia, Richard
Subject: RE: 2011 Staffing Issues Meeting

Doug –

Would you be able to go over the staffing plan with Rich next week? I'll be on travel the week of Feb 28 and don't want to miss an opportunity...

Kevin

From: Coe, Doug
Sent: Wednesday, March 16, 2011 12:38 PM
To: Correia, Richard; Coyne, Kevin
Subject: RE: 2011 Staffing Issues Meeting

(b)(5)

From: Correia, Richard
Sent: Wednesday, March 16, 2011 10:59 AM
To: Coyne, Kevin
Cc: Coe, Doug
Subject: RE: 2011 Staffing Issues Meeting

Thx Kevin for the update. Your plans sounds god and consistent with the overall strategy

AS/142

for filling funded vacancies. Keep me informed as these items progress.

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 10:55 AM
To: Correia, Richard
Cc: Coe, Doug
Subject: RE: 2011 Staffing Issues Meeting

Rich –

I just talked with Ed Okleson – I've attached a scanned version of the slides. Both Mark Salley and Gary Demoss are actively finalizing the process for bringing on new NSPDP'ers to FRB and PRB. PRB is also going through interviews on the GG-14 vacancy. PRAB does indeed have a GG-13 vacancy that we've held in abeyance thus far largely due to the possibility of an FTE squeeze for 12 and 13.

(b)(5)

Let me know if you'd like to discuss further –

Kevin

From: Correia, Richard
Sent: Wednesday, March 16, 2011 10:18 AM
To: Coyne, Kevin; Coe, Doug
Subject: RE: 2011 Staffing Issues Meeting

We just finished the staffing meeting. The meeting was largely about FTE in FY 11 and 12 and how to keep within the budget we will get in FY12. DRA is in good shape relatively speaking. Someone (PMDA) plans to talk to you about one of your vacancies and whether

(b)(5)

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 7:34 AM
To: Correia, Richard
Subject: Re: 2011 Staffing Issues Meeting

Rich-

Hadn't heard about this meeting. I can help cover it though.

(b)(5)

Kevin

Sent from an NRC Blackberry
Kevin Coyne

(b)(6)

From: Correia, Richard
To: Coyne, Kevin
Cc: Coe, Doug
Sent: Wed Mar 16 07:14:08 2011
Subject: FW: 2011 Staffing Issues Meeting

Kevin,

Are you or will you attend this meeting this morning for DRA? If there is a call in number, I'll participate that way.

thx

From: Correia, Richard
To: Drouin, Mary; Coe, Doug; Coyne, Kevin
Cc: Demoss, Gary
Subject: RE: SRM
Date: Wednesday, March 16, 2011 1:16:02 PM

Thanks Mary. This information will be very useful as we develop plans to implement the SRM tasks.

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
- 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

AS/143

(b)(5)

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

Withhold All- Ex 5

Sent: Wednesday, March 16, 2011 8:57 AM
To: Peters, Sean
Subject: FW: Updated literature review documentation

Sean

This is the draft that we plan to send to the ACRS on the 21; that is next week

Erasmia

From: (b)(6) [mailto:(b)(6)] **On Behalf Of** April Whaley
Sent: Wednesday, March 16, 2011 4:29 AM
To: Lois, Erasmia; Vinh N. Dang; Gareth W. Parry; Martin.Sattison@inl.gov; Katrina Groth; John Forester; Hendrickson, Stacey M Langfit; Jeffrey C Joe; Xing, Jing; Dana Kelly; Ronald Laurids Boring; slewis@epri.com; Chang, James; Johanna H Oxstrand; Ali Mosleh; April Whaley
Cc: Bruce P Hallbert; harold.blackman@inl.gov
Subject: Updated literature review documentation

All,

As promised, attached is an updated draft of the literature review report.

Some important notes:

(b)(5)

Thank you,

April, Ron, and Jeffrey

From: Check, Michael
To: Bruce, Bruce
Subject: RE: FY2011 SPO
Date: Wednesday, March 16, 2011 1:28:00 PM

This helps. thanks

From: Heida, Bruce
Sent: Wednesday, March 16, 2011 9:45 AM
To: Check, Michael
Cc: Lee, Samson
Subject: RE: FY2011 SPO

DRA is responsible only for OPA. I included the other SPO evaluations as examples of past reviews of other Offices.

The division assigns for NRR are.

SPO POC: Trent Wertz 415-1568
OpPlan POC: Scott Wall 415-2855

| Primary Offices | NRR Division | Secondary Offices | NRR Division |
|-----------------|--------------|-------------------|--------------|
| EDO | PMDA | OI | DE |
| ADM | PMDA | NMSS | DORL |
| OE | DORL | SBCR | PMDA |
| OIS | PMDA | FSME | DPR |
| HR | PMDA | SECY | PMDA |
| NSIR | DPR | OCA | DCI |
| RES | DE/DCI | OGC | DCI |
| RI | DIRS | OIP | DCI |
| RII | DIRS | OPA | DRA |
| RIII | DIRS | CSO | PMDA |
| RIV | DIRS | | |
| NRO | DSS | | |
| ACRS/ACNW | DLR | | |
| CFO | PMDA | | |

The other divisions will be providing DRA with their input for OPA just as DRA will provide input to the other divisions of our experience with the other offices. I will take the input I receive for DRA and provide that to the TAs of the other divisions next Monday, March 21. The other TAs will be forwarding their input for OPA to me next Monday. I will complete their input next Tuesday and have it for your review so it can be sent to Quynh Nguyen on Wednesday, March 23.

The March 2010 date may have been from the initial SPO reviews last year. I have not been able to determine why the dates were not changed to September 2010.

I hope this helps.

Sincerely,

Bruce

From: Check, Michael
Sent: Wednesday, March 16, 2011 8:21 AM
To: Heida, Bruce
Cc: Lee, Samson
Subject: RE: FY2011 SPO

Bruce: a quick question - all the end of the year SPOs have a date of March 2010 - is this intentional?

I am assuming from your email that DRA is the lead division for Admin, OCFO, OPA, and RES. Do we need to make a request to the other divisions to provide their input to us by a certain time so you can compile the input for our review? (or is this general knowledge from previous SPOs that they will come to us with their input?)

Thanks

From: Heida, Bruce
Sent: Wednesday, March 16, 2011 7:48 AM
To: Check, Michael; Lee, Samson; Harrison, Donnie; Klein, Alex; Rodriguez, Veronica; Tate, Travis
Subject: FY2011 SPO

I have attached several SPO evaluations from FY2010 as examples. Additional FY2010 SPOs can be found at <http://portal.nrc.gov/efo/nrr/NRR%20FY%20Shared%20Documents%20FY%20SPOs/Folder:CTID=3&View={7b3f6f5a-96%2d4feda%2d408f%2d6d23%2b6ac2ef79%2d%7d}>

The instructions I received yesterday are:

- Per the LT, March 21: Get your info to Lead Divisions.
- March 23 - Get your info to me (Quynh) and Sean. We are going to brief LT on Friday.
- Remember: Focus on showstoppers!
- Filter your input to bullets (no more than 3 lines - rule of thumb).
- Refrain from APPRAISAL like language (outstanding, excellent)... just go with the facts!!!!
- CLEAR and CONCISE.

I will need your input by noon Monday, March 21. Please let me know if you need any additional information.

Thank you.

Bruce Heida

US NRC

NRR/DRA

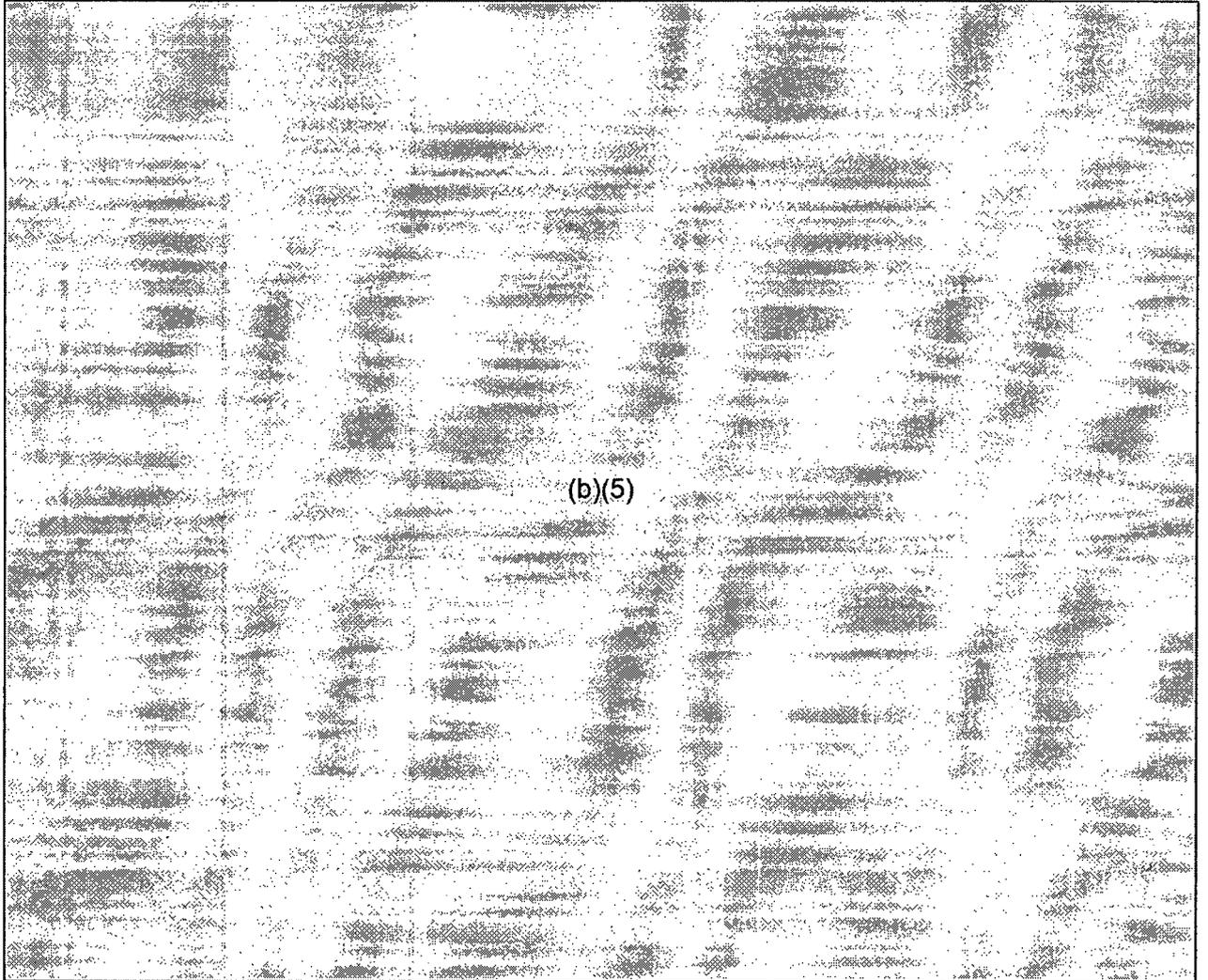
(301) 415-3221

<< File: Admin SPO End of Year.doc >> << File: OCFO SPO End of Year.doc >> << File: OPA SPO End of Year.doc >> << File: RES SPO End of Year.doc >>

AS/1144

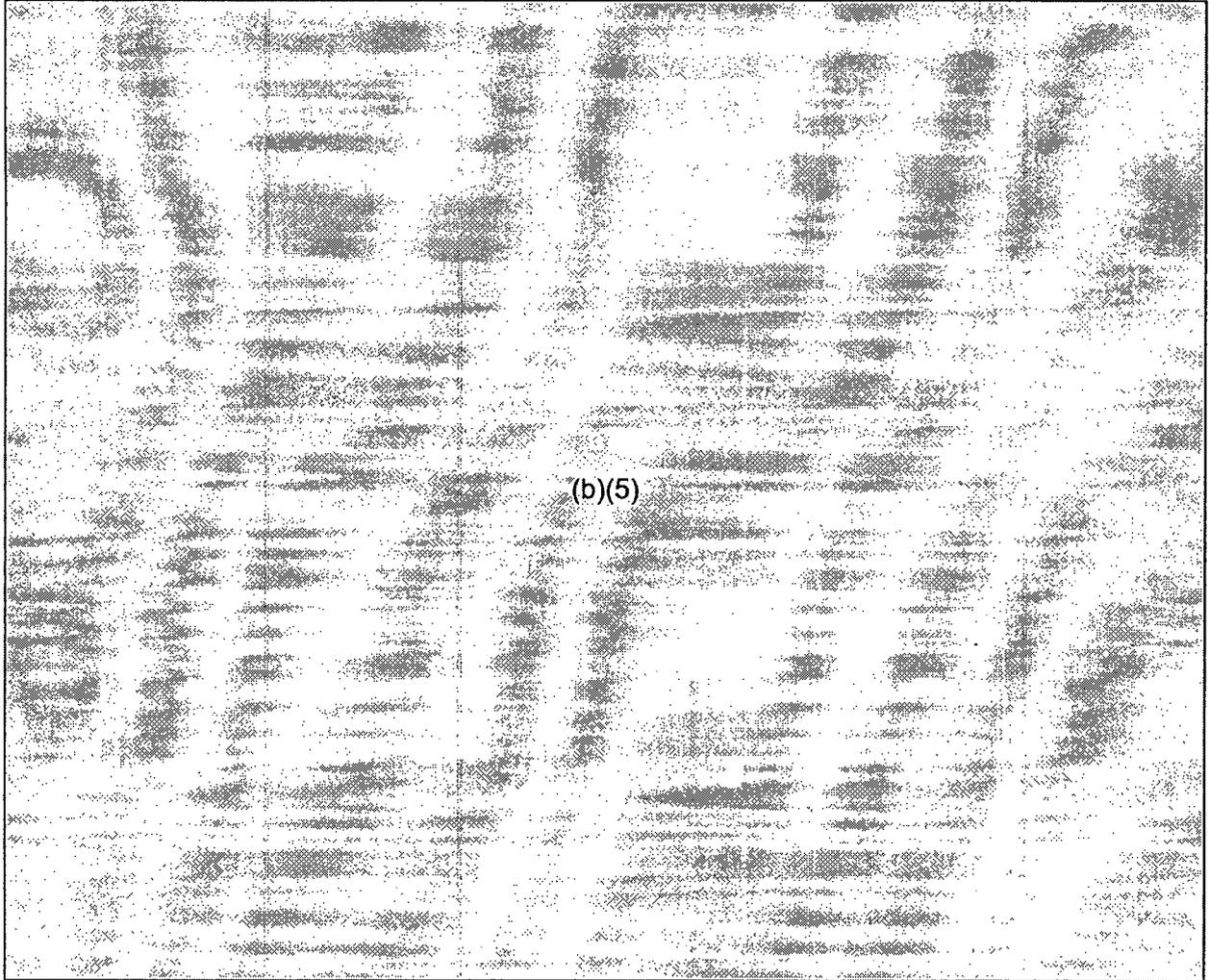
Appendix B - Assessment of Offices

March 2010



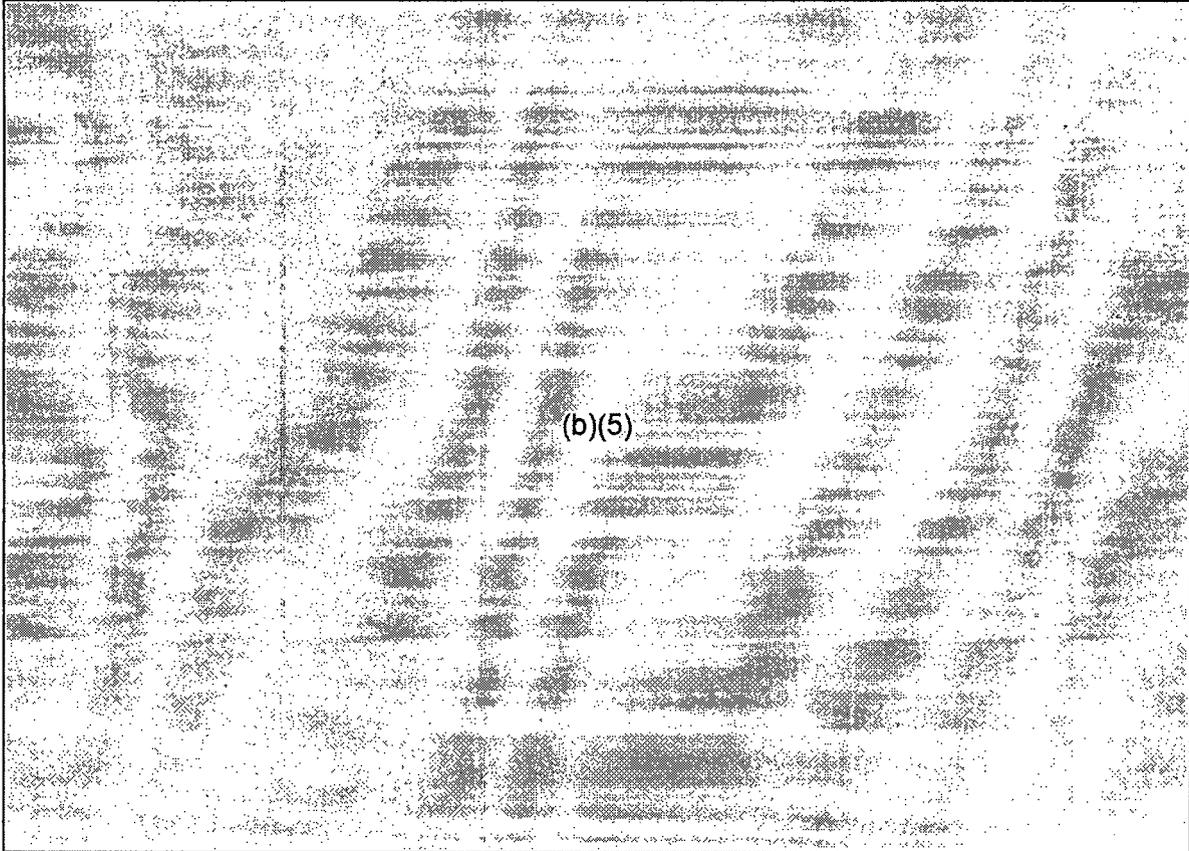
Appendix B - Assessment of Offices

March 2010



Appendix B - Assessment of Offices

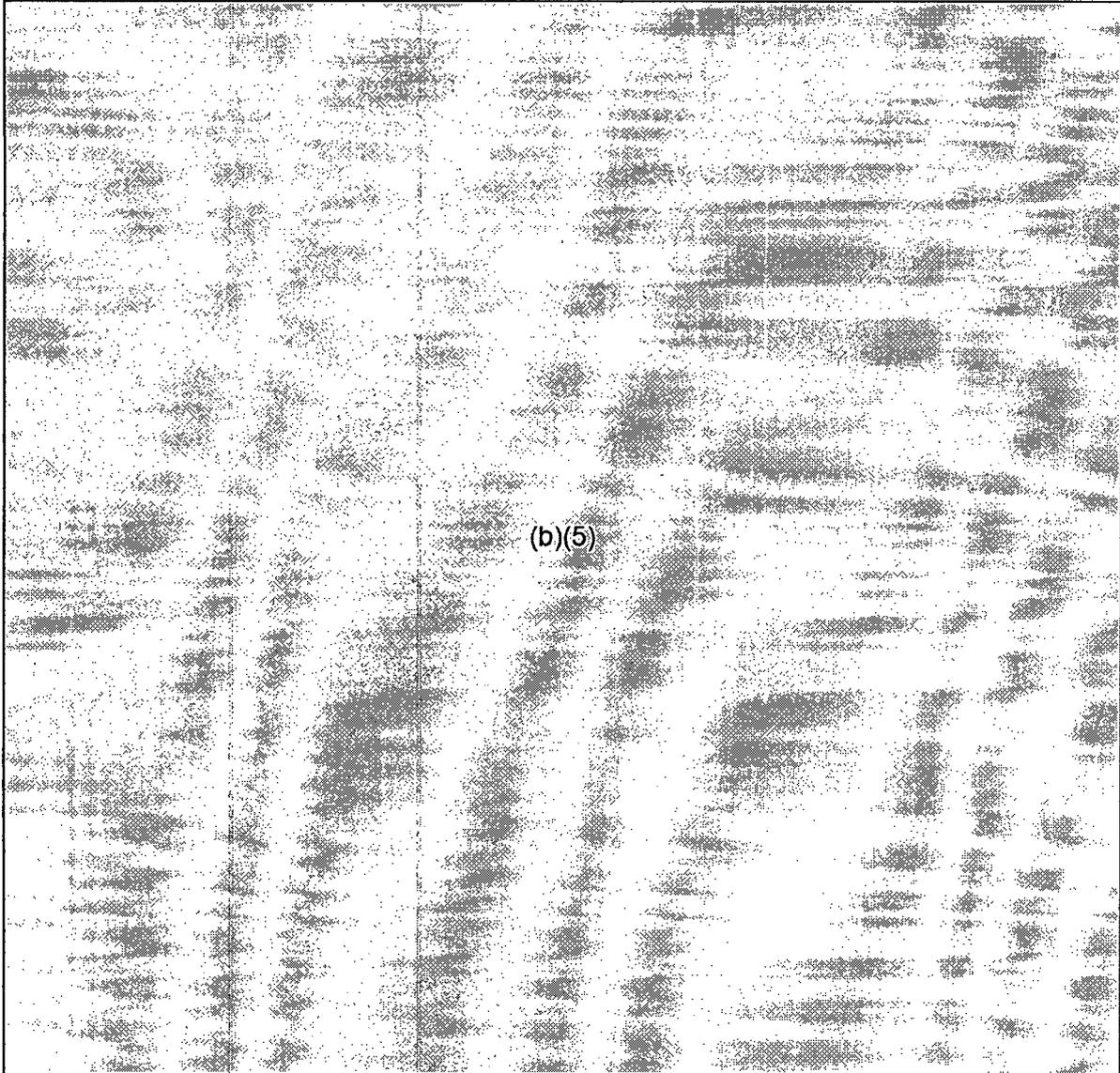
March 2010



Last Updated: August 27, 2008

Appendix B - Assessment of Offices

March 2010



Last Updated: March 26, 2010

From: Coyne, Kevin
To: Correia, Richard
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources
Date: Wednesday, March 16, 2011 1:32:00 PM

Rich –

RES/PMDA actually needs an answer today. The DE proposal is reasonable to me, just wanted to inform you of the status and make sure you didn't have an objection.

-Kevin

From: Correia, Richard
Sent: Wednesday, March 16, 2011 1:22 PM
To: Coyne, Kevin
Cc: Coe, Doug; Ott, William; Marksberry, Don; Demoss, Gary
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

Thx Kevin,

Let's discuss this proposal when you, me and Doug go over the staffing plan/situation next week.

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 12:15 PM
To: Correia, Richard
Cc: Coe, Doug; Ott, William; Marksberry, Don; Demoss, Gary
Subject: FW: action please reply by COB today 3/16: allocation of EST/WC resources
Importance: High

Rich –

(b)(5)

AS/145

(b)(5)

Kevin

From: Gavrilas, Mirela

Sent: Wednesday, March 16, 2011 11:27 AM

To: Demoss, Gary; Voglewede, John

Cc: Coyne, Kevin; Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy

Subject: action please reply by COB today 3/16: allocation of EST/WC resources

Importance: High

Gary (Kevin)/John,

(b)(5)

Please let me know what your division thinks. I need to give Kathleen an answer tomorrow morning, so I'd much appreciate your input today.

Thanks,
M.

From: Givines, Mary
To: Grabe, Jack
Subject: FW: UPDATE: Monthly OCFO/PMDA-DRMA Meeting
Date: Wednesday, March 16, 2011 1:43:15 PM

Hip pocket info to support your meeting on Friday – the monthly CFO/EDO Financial. As you can see there has been significant changes to the numbers since late February.

From: Le, Hong
Sent: Wednesday, March 16, 2011 1:32 PM
To: Givines, Mary; Ferrell, Kimberly
Cc: Valencia, Sylvia; Nguyen, Caroline; Tharpe, Gary
Subject: RE: UPDATE: Monthly OCFO/PMDA-DRMA Meeting

OCFO Report is as of Feb 28, 2011.

(b)(5)

From: Le, Hong
Sent: Wednesday, March 16, 2011 12:56 PM
To: Givines, Mary; Ferrell, Kimberly
Subject: RE: UPDATE: Monthly OCFO/PMDA-DRMA Meeting

We are verifying the NRR numbers...

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

From: Powell, Marlon
Sent: Wednesday, March 16, 2011 12:53 PM
To: Abraham, Susan; Allwein, Russell; Andersen, James; Baker, Pamela; Bower, Phyllis; Champion, Tanya; Coleman, Judy; Cullison, David; Dambly, Jan; Dembek, Stephen; Ficks, Ben; Givines, Mary; Golder, Jennifer; Grancorvitz, Teresa; Gusack, Barbara; Hackworth, Sandra; Hayden, Elizabeth; Hays, Myra; Holt, BJ; Horn, James; Huber, Deborah; Huth, Virginia; Janis, James; Jefferson, Steven; Kaplan, Michele; Ma, May; Matheson, Mary; McDevitt, Joan; Muessle, Mary; Orbach, Susan; Pellet, John; Peterson, Gordon; Pratcher, Rebecca; Pulliam, Timothy; Rheaume, Cynthia; Ricketts, Paul; Rough, Richard; Schum, Constance; Sotiropoulos, Dina; Tenaglia, Mickey; Walker, Tracy; Weaver, Doug; Williams-Johnson, Patrice; Larche, Linda; Campbell, Andy; Nute-Blackshear, Lora; Miller, Fred; Jermell, Eleni; Madden, Patrick; Darby, Krystal; Somerville, Glenda; Fitch, Karen; RIDRMCAL RESOURCE; Le, Hong; Narick, Marianne; Ha, Su; Rule, David; Collins, Daniel; Shay, Jason; Rand, Jennifer; Mattingley, Joel; Steinberg, Michael; Daly, Jill; Sanchez, Alba; Barnes, Robin; Martin, Starlet; Bayliff, Shirley; Gold, Meg; Solorio, Ilka; Moore, Toye; Arrighi, Russell; Smith, Pat; Huyck, Doug; Rivera, Eric; Sylvester, Dennis; Hall, Donald; Benner, Eric; Fredericks, Carl; Valentin, Andrea; Solander, Lars; Voytko, Victoria; Webber, Robert; McGill, Clinton
Cc: Liu, Leslie; Ferrell, Kimberly; Castello, Jennifer; Cowan, Grace; Butler, Rodney; Gardin, Kathy; Blond, Tamoria; Neff, Deborah; Clarkson, Sharon; Irani, Guita; Curtis, Michelle; Brezovec, Michael; Jacobs-Baynard, Elizabeth; Mahdi, Deborah; Gillen, Edward; Murphy, Jerome; Gulla, Gerald; Nibert, Patty; Mitchell, Reggie; Delligatti, Mark; Harvey, Sue; Williams, Mona; Williams, Monique; Sangimino, Donna-Marie; Somerville, Joseph; Kromer, Harry; Kardaras, Tom; Rivas, Audrey
Subject: UPDATE: Monthly OCFO/PMDA-DRMA Meeting
When: Wednesday, March 16, 2011 3:00 PM-4:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: CFO-TWFFN-09A01-25p

Purpose: To discuss the OCFO/OEDO monthly Periodic Budget Meeting and Monthly OCFO/PMDA-DRMA Meeting.

Agenda:

AS/146

<< File: Agenda for 03-16-11 OCFO PMDA DRMA Meeting.docx >>

YOU CAN VIEW THE BRIEFING SLIDES AT THE FOLLOWING LINK:

http://portal.nrc.gov/OCM/ocfo/ocfo_admin/dpba/Periodic%20Budget%20Briefing/Forms/AllItems.aspx

This meeting will occur every third Wednesday of the month from 3:00-4:00pm.

You may select Use Telephone after joining the meeting.

PMDA/DRMA Monthly Meeting

Join us for a GotoMeeting on March 16

1. Please join my meeting, Wednesday, March 16 at 3:00 PM Eastern Daylight Time.

<https://www1.gotomeeting.com/join/732888008>

2. Use your microphone and speakers (VoIP) - a headset is recommended. **Or, call in using your telephone.**

Dial +1 (630) 869-1011.

Access Code:

Audio PIN: Shown after joining the meeting

Meeting ID: 732-888-008

GoToMeeting®

Online Meetings Made Easy™

Yours Respectfully,

<< OLE Object: Picture (Device Independent Bitmap) >>

From: Covne, Kevin
To: Correia, Richard
Cc: Coe, Doug
Subject: RE: (b)(6) rotation
Date: Wednesday, March 16, 2011 2:10:59 PM

Rich –

(b)(5),(b)(6)

I'd obviously leave it to you and Doug for final decision....

Kevin

From: Correia, Richard
Sent: Wednesday, March 16, 2011 1:08 PM
To: Coe, Doug; Coyne, Kevin
Subject: (b)(6) rotation

Doug, Kevin,

(b)(5),(b)(6)

I told her I would confer with you and then make a decision.

Thoughts?

AS/147

From: Scott, Michael
To: Bowman, Gregory
Cc: Tomon, John; Lewis, Doris; Coyne, Kevin; Bush-Goddard, Stephanie; Gibson, Kathy
Subject: FW: REVISED SECTION FOR AO REPORT
Date: Wednesday, March 16, 2011 2:25:59 PM
Attachments: Robinson ASP (Rev 2).docx

Greg:

Your rearrangement looks fine to me. Copying the players in case someone objects in the next hour so – then suggest you go with it.

Mike

From: Bowman, Gregory
Sent: Wednesday, March 16, 2011 1:31 PM
To: Scott, Michael
Subject: RE: REVISED SECTION FOR AO REPORT

Greg Bowman
Executive Technical Assistant
Office of the Executive Director for Operations
U.S. Nuclear Regulatory Commission
gregory.bowman@nrc.gov | 301-415-2939 | O-16E24

From: Scott, Michael
Sent: Tuesday, March 15, 2011 9:16 PM
To: Bowman, Gregory
Cc: Gibson, Kathy; Tomon, John; Lewis, Doris; Gibson, Kathy; Coyne, Kevin; Bush-Goddard, Stephanie
Subject: REVISED SECTION FOR AO REPORT

(b)(5)

Mike

AS/148

(b)(5)

(b)(5)

From: Zaki, Tarek
To: Scott, Michael; Coffin, Stephanie; Coyne, Kevin; Gavrilas, Mirela
Cc: Case, Michael
Subject: RE: NRO Mtg -- get ready for action
Date: Wednesday, March 16, 2011 2:55:49 PM
Attachments: Proposed RES NGNP FY13 Budget FTE 3-15-11 (2).xlsx
RE NRO Mtg -- get ready for action DRA Input (Advanced Reactor Funding).msg
RES NGNP FY12 Budget.msg
Importance: High

Attached is a revised FY13 sheet based on this morning's meeting. I hope I captured everything, but the NRO folks are revising their "comprehensive" sheet anyway and we should be able to compare and confirm once this is issued. Also attached is Kevin's email with DRA's FY12/13 input, which should be consistent with this revised sheet, as well as DRA's original FY13 budget/FTE input to NRO.

Also, in preparation for our upcoming FY12 budget/FTE discussion this afternoon, I attached Jon's earlier email with the proposed FY12 budget/FTE.

Thanks,
Tarek

From: Zaki, Tarek
Sent: Wednesday, March 16, 2011 11:33 AM
To: Gavrilas, Mirela; Coyne, Kevin
Cc: Scott, Michael; Case, Michael; Coe, Doug; Richards, Stuart; Gibson, Kathy
Subject: RE: NRO Mtg -- get ready for action

Mirela/Kevin;

Thanks again for your quick feedback/input yesterday.

(b)(5)

BTW, Mike and I had a meeting with NRO this morning on FY13 budget, I'm working on a summary and I'll forward it to you shortly.

Thanks,
Tarek

From: Gavrilas, Mirela
Sent: Wednesday, March 16, 2011 10:07 AM
To: Zaki, Tarek; Scott, Michael; Coyne, Kevin
Cc: Kelly, Joseph; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah; Csontos, Aladar; Sydnor, Russell; Hogan, Rosemary; Graves, Herman; Case, Michael
Subject: RE: NRO Mtg -- get ready for action

AS/149

Tarek,

(b)(5)

Thanks,
M.

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 6:57 PM
To: Scott, Michael; Coyne, Kevin; Gavrilas, Mirela
Cc: Kelly, Joseph; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah
Subject: RE: NRO Mtg -- get ready for action

Mike;

Attached is a proposed RES NGRP FY12 budget & FTE based on our earlier discussion, on Mirela's verbal input to you, and on Kevin's attached email. Please note that this is only for FY12 and does not include the FY13 input provided in Kevin's attached email, neither does it include any FTE to coordinate, manage, and monitor any DOE funded projects (e.g., OSU).

Thanks,
Tarek

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 4:28 PM
To: Zaki, Tarek; Coyne, Kevin; Gavrilas, Mirela
Cc: Scott, Michael; Starefos, Joelle; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah
Subject: RE: NRO Mtg -- get ready for action
Importance: High

(b)(5)

(b)(5)

Thanks,
Tarek

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 3:59 PM
To: Coyne, Kevin; Gavrilas, Mirela
Cc: Scott, Michael; Starefos, Joelle; Armstrong, Kenneth; Hudson, Daniel; Shaffer, Sarah
Subject: FW: NRO Mtg -- get ready for action
Importance: High

Mirela/Kevin;

Thanks for meeting with us on such short notice. Attached is Ruth's initial spreadsheet, as well as Ken's emails with the more detailed spreadsheets that we discussed in our meeting.

Please take a look and coordinate with other BC's in your respective divisions regarding the following:

(b)(5)

Mike was looking to send our feedback to NRO today, so it's urgent. Sorry for the very short notice.

Thanks,
Tarek

From: Zaki, Tarek
Sent: Tuesday, March 15, 2011 1:17 PM
To: Coyne, Kevin; Gavrilas, Mirela
Subject: FW: NRO Mtg -- get ready for action
Importance: High

Kevin/Mirela;

Mike is in another budget meeting with NRR and he asked me to coordinate with you. We owe NRO feedback by COB today. Can we get together sometime this afternoon to discuss, is 2:30pm OK?

Thanks,
Tarek

From: Gibson, Kathy
Sent: Tuesday, March 15, 2011 12:59 PM
To: Scott, Michael; Zaki, Tarek
Subject: FW: NRO Mtg -- get ready for action
Importance: High

(b)(5)

Kathy Halvey Gibson
Director
Division of Systems Analysis



Kathy.Gibson@nrc.gov
(301) 251-7499 Work
(b)(6) Cell

U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Operations
Protecting People and the Environment

Ex 2

From: Armstrong, Kenneth
Sent: Tuesday, March 15, 2011 12:42 PM
To: Elkins, Scott; Hoxie, Chris; Zaki, Tarek; Lee, Richard; Bush-Goddard, Stephanie
Cc: Gibson, Kathy; Scott, Michael; Flanagan, Michelle; Lewis, Doris
Subject: FW: NRO Mtg -- get ready for action
Importance: High

I know many of you are out of the office today, but just wanted to pass this along in case you have any input.

From: Spencer, Ruth
Sent: Tuesday, March 15, 2011 12:06 PM
To: Armstrong, Kenneth; Hudson, Daniel; Rivera-Lugo, Richard
Cc: Rini, Brett; Stout, Kathleen; Grancorvitz, Teresa; Scott, Michael
Subject: NRO Mtg -- get ready for action
Importance: High

(b)(5)

(b)(5)

I'm still over at WFN for an NRR meeting this afternoon, but I'll be back later if you want to discuss.

Thanks, Ruth

(b)(5)

Attachment RE NRO Mtg -- get ready for action DRA Input (.msg (2560 Bytes) cannot be converted to PDF format.

Attachment RES NGNP FY12 Budget.msg (2560 Bytes) cannot be converted to PDF format.

Laur, Steven

From: Dinsmore, Stephen
Sent: Wednesday, March 16, 2011 3:15 PM
To: Harrison, Donnie; Klein, Alex; Moulton, Charles; Barrett, Harold; Laur, Steven; Howe, Andrew
Subject: Comments on FAQ- 10-0059
Attachments: FAQ 10-0059.doc

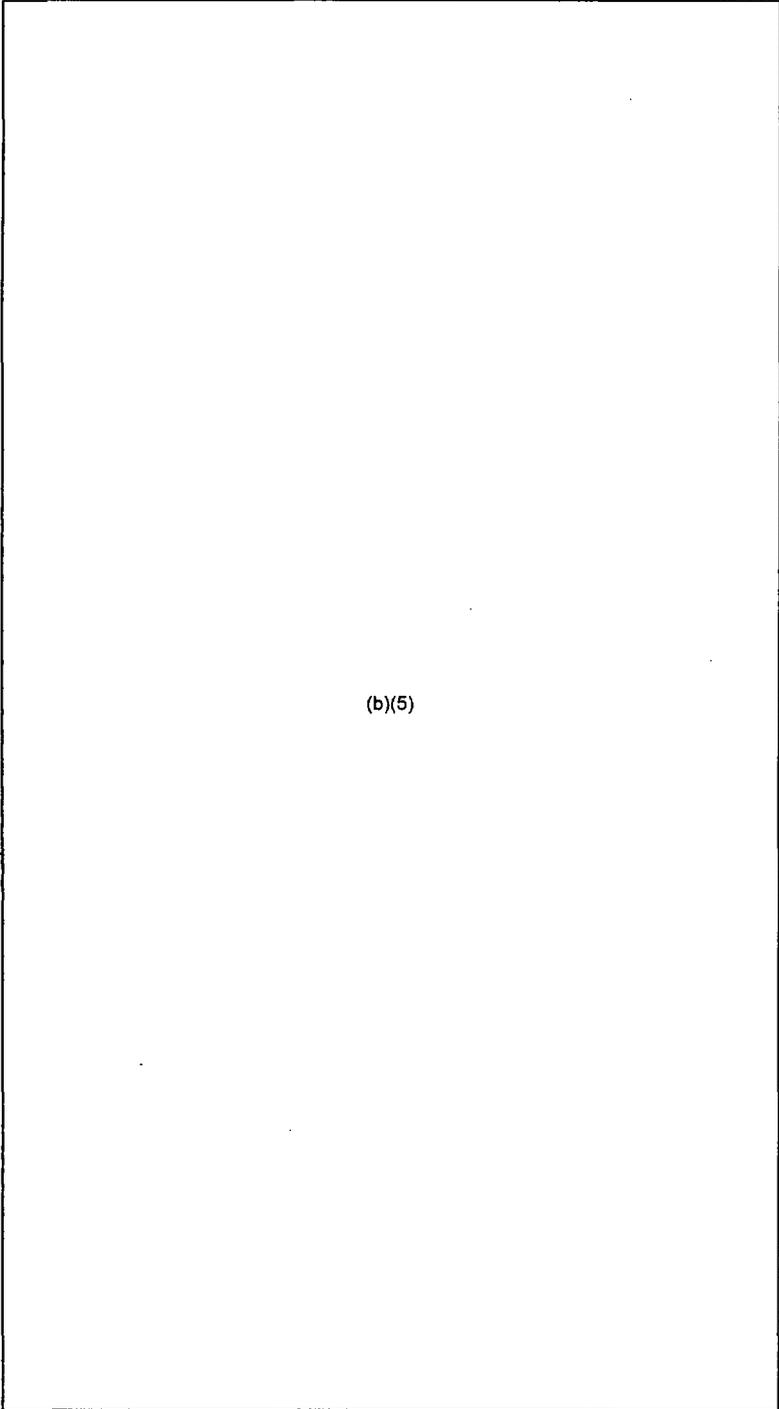
Attached are some of my comments on the Monitoring FAQ.

(b)(5)

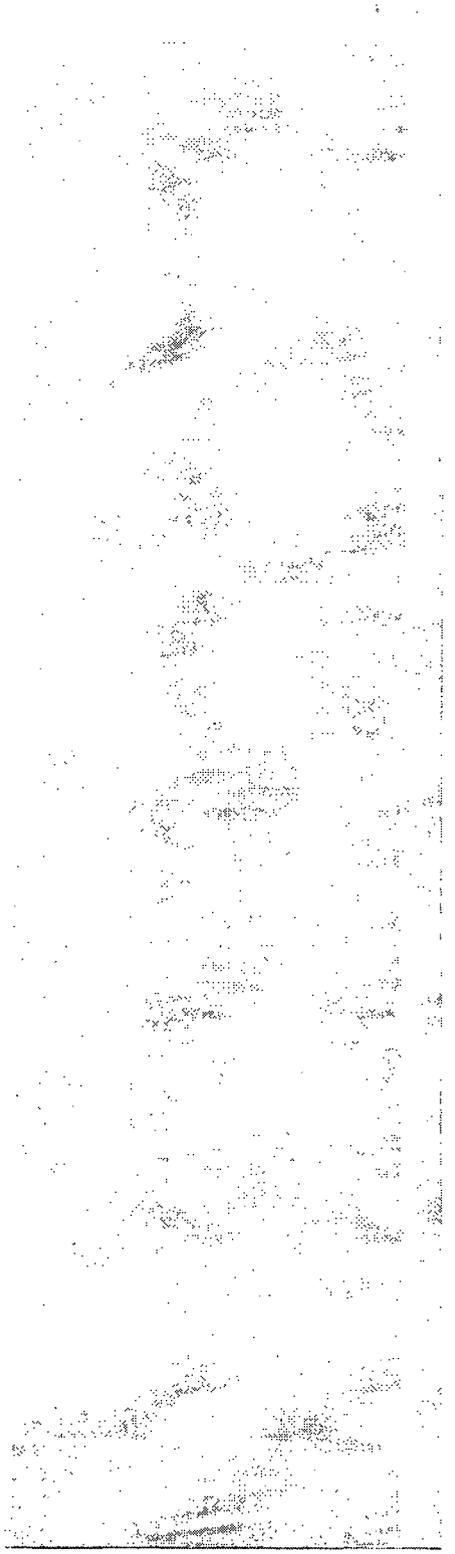
(b)(5)

I trust tomorrow's meeting is primarily to gain a better understanding of what they are proposing

(b)(5)



(b)(5)



From: Martin.Sattison@int.gov
To: Kuritzky, Alan
Cc: Helton, Donald; Coyne, Kevin
Subject: Re: JCN V6225 - Request for Proposal for New Project, "SPAR Integrated Capabilities Baseline Model"
Date: Wednesday, March 16, 2011 3:17:25 PM

Thanks,

I have visited with Don a few minutes on this and will get with my team after PSA 2011 to get started on our reply. Don and I thought it might be good to have a conference call in a couple of weeks to make sure we are all on the same page.

Marty

Martin B. Sattison
PO Box 1625
MS 3850
Idaho Falls, ID. 83415-3850
Ph: 208-526-9626
Fax: 208-526-2930
Cell: (b)(6)

From: "Kuritzky, Alan" [Alan.Kuritzky@nrc.gov]
Sent: 03/16/2011 02:18 PM AST
To: Martin Sattison
Cc: "Helton, Donald" <Donald.Helton@nrc.gov>; "Coyne, Kevin" <Kevin.Coyne@nrc.gov>
Subject: FW: JCN V6225 - Request for Proposal for New Project, "SPAR Integrated Capabilities Baseline Model"

Marty,

Don Helton asked me to forward this message to you.

Alan

Alan Kuritzky
United States Nuclear Regulatory Commission
Mail Stop C-4C07M
Washington, DC 20555-0001
Voice: 301-251-7587
Fax: 301-251-7435
E-mail: Alan.Kuritzky@nrc.gov

From: Davis, Chon
Sent: Wednesday, March 16, 2011 11:50 AM
To: Carol English; Cliff Fineman; Lisa Peterson
Cc: Helton, Donald; Kuritzky, Alan; Coyne, Kevin; Davis, Chon
Subject: JCN V6225 - Request for Proposal for New Project, "SPAR Integrated Capabilities Baseline Model"

AS/151

From: Brobst, Janet
To: Sheron, Brian; Case, Michael; Uhle, Jennifer; Gibson, Kathy; Coe, Doug
Cc: Oklesson, Edward; Valentin, Andrea
Subject: RES NSDPD Monthly Status Reports - February 2011
Date: Wednesday, March 16, 2011 3:34:56 PM
Attachments:

| | |
|--------|-------------------------|
| (b)(6) | <u>February 11.docx</u> |
| | <u>February 11.docx</u> |

NSDPD Improvement Report.docx

Attached are the reports for the month of February for the NSDPD staff.

(b)(6) has completed all her training requirements, therefore is not included in the attachment.

Notes:

Suggestions/areas of improvement being coordinated by J. Brobst/E. Oklesson, including interaction with HR/other offices as required. Current suggestions as tracked are included in the attachment.

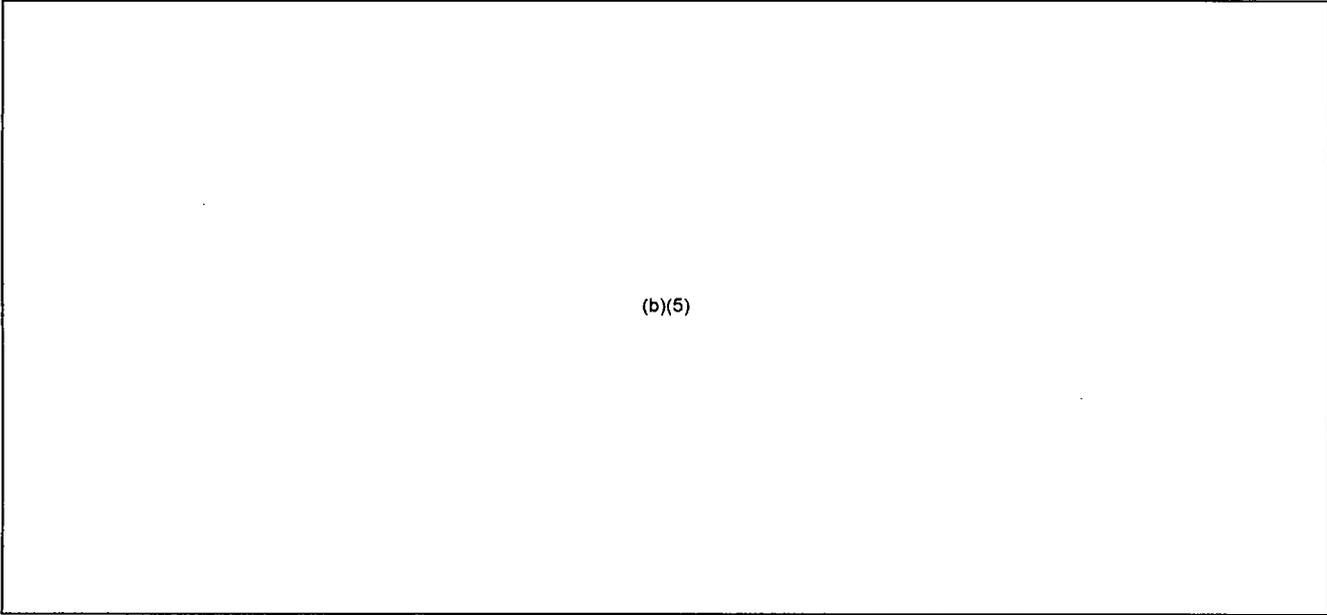
AS/152

MEMORANDUM TO: Janet Brobst (NSPDP Coordinator)
Kevin Coyne (Branch Chief)
(mentor)

FROM: (b)(6) 2012 RES NSPDP Participant

SUBJECT: February 2011 NSPDP Monthly Report

(b)(6)



Attachment: Research Training Track Table

MEMORANDUM TO:

Janet Brobst (NSPDP Coordinator)
Richard Lee (FSTB Branch Chief)
David Pstrak (SMMB acting Branch Chief)
Edwin Hackett (Mentor, Director of the ACRS)

FROM:

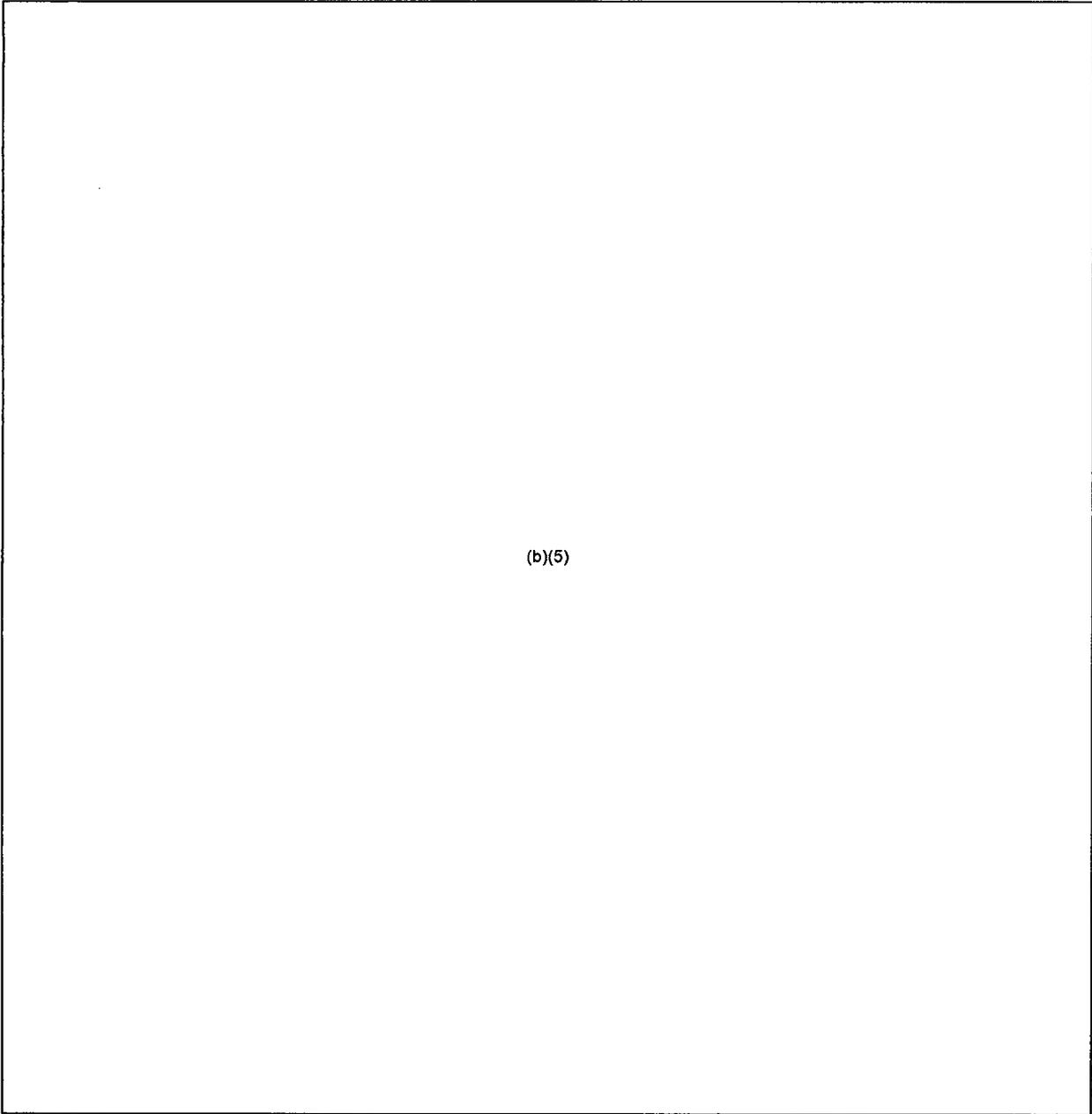
(b)(6)

, 2011 RES NSPDP Participant

SUBJECT:

February 2011 NSPDP Monthly Status Report

(b)(5)



(b)(5)

Attachment: Research Training Track Table

MEMORANDUM TO: Janet Brobst (NSPDP Coordinator)
Ben Beasley (Branch Chief)
Jennifer Uhle (mentor)

FROM (b)(6) 2011 RES NSPDP Participant

SUBJECT: February 2011 NSPDP Monthly Report

(b)(5)

(b)(5)

(b)(5)

Attachment: Research Training Track Table

MEMORANDUM TO: Janet Brobst (NSPDP Coordinator)
Patricia Santiago (Branch Chief)
(mentor)

FROM: (b)(6) 2013 RES NSPDP Participant

SUBJECT: February 2011 NSPDP Monthly Report

(b)(5)

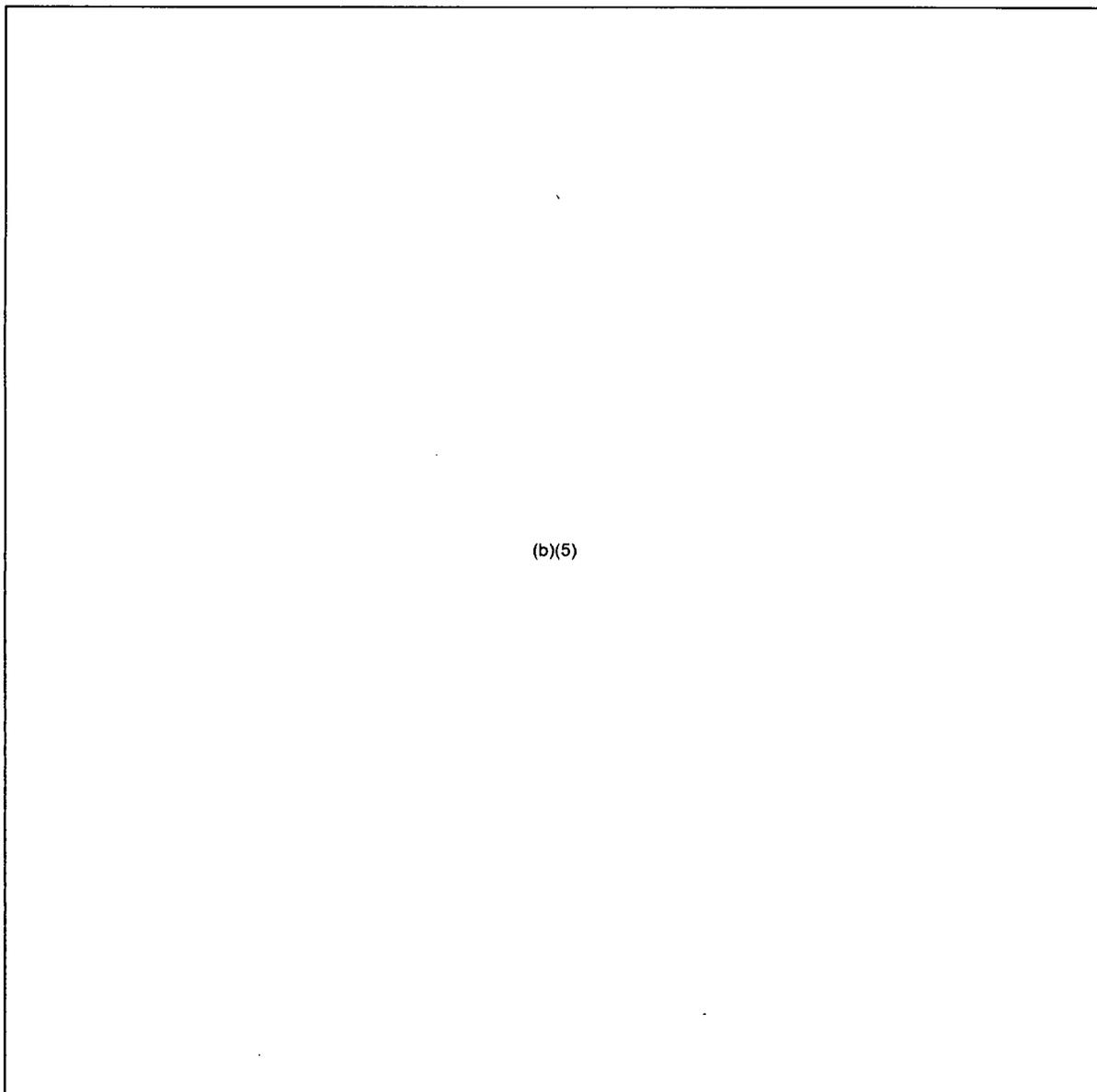
(b)(5)

Attachment: Research Training Track Table

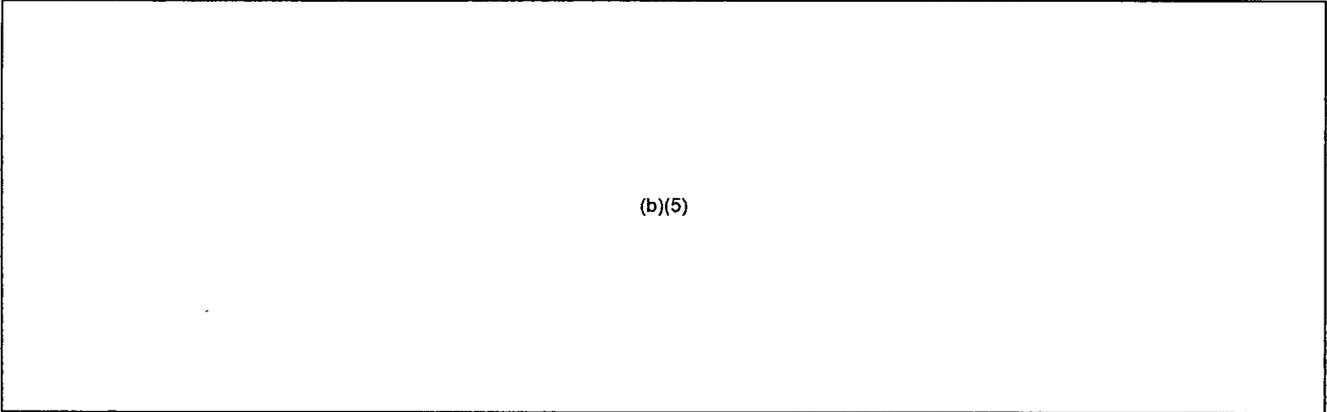
MEMORANDUM TO: Janet Brobst (NSPDP Coordinator)
Rosemary Hogan (Branch Chief)

FROM: (b)(6) 2010 RES NSPDP Participant

SUBJECT: February 2011 NSPDP Monthly Report



(b)(5)



(b)(5)

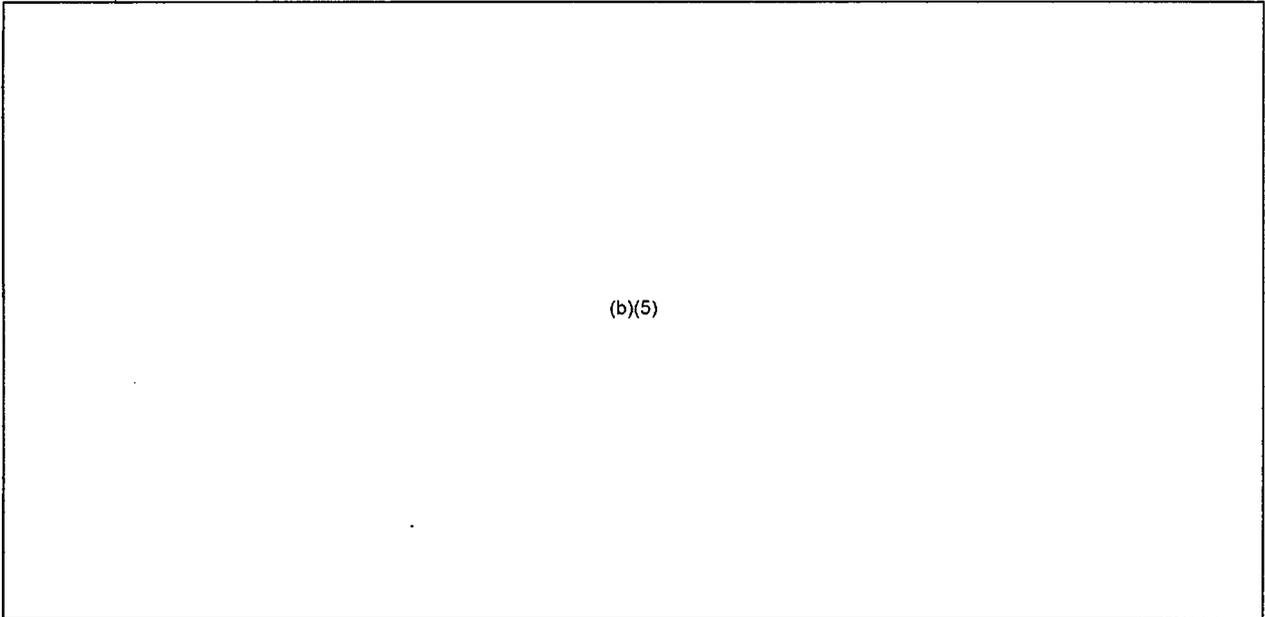
Attachment: Research Training Track Table

MEMORANDUM TO: Janet Brobst (NSPDP Coordinator)
Mark H. Salley (Branch Chief)
John Monninger (Mentor)

FROM: (b)(6) 2011 RES NSPDP Participant

SUBJECT: February 2011 NSPDP Monthly Report

(b)(5)



(b)(5)

Attachment
: Research Training Track Table

MEMORANDUM TO: Janet Brobst (NSPDP Coordinator)
Tom Boyce (Branch Chief)
Margie Kotzalas (Mentor)

FROM: (b)(6)
2012 RES NSPDP Participant

SUBJECT: February 2011 NSPDP Monthly Report

(b)(5)

(b)(5)

Attachment: Research Training Track Table

NSPDP Suggestion/Improvement Report as of 3/15/11

| Name | Date Reported | Issues/Comments/Suggestions | Status |
|------|---------------|-----------------------------|--------|
|------|---------------|-----------------------------|--------|

| | | | |
|--------|--|--|--|
| (b)(5) | | | |
|--------|--|--|--|

From: Tregoning, Robert
To: Dudlev, Richard
Cc: Collins, Timothy; Dinsmore, Stephen; Case, Michael; Richards, Stuart; Uhle, Jennifer; Landry, Ralph
Subject: Combined50 46a Commission Meeting Presentation3-16-11-tec-rfd-rltb.pptx
Date: Wednesday, March 16, 2011 4:12:44 PM
Attachments: Combined50 46a Commission Meeting Presentation3-16-11-tec-rfd-rltb.pptx

Dick:

My final slides and talking points are contained within this slide package. I've incorporated final changes based on our discussion this morning, the direction we received from Bill Borchardt during the alignment briefing, and management review completed today. Please let me know if you have any questions or if you identify other suggested revisions.

I'd like to note that I no longer use the FEA acronym so that this can be deleted from the last slides.

Cheers,
Rob

Robert Tregoning
Technical Advisor for Materials
US Nuclear Regulatory Commission
21 Church Street, M/S CS-5A24
Rockville, MD 20850
ph: 301-251-7662
mobile: (b)(6)
fax: 301-251-7425

AS/153



United States Nuclear Regulatory Commission

Protecting People and the Environment

Risk-Informed Emergency Core Cooling Requirements (10 CFR 50.46a)

March 24, 2011

Speakers and Topics

- **Opening: Bill Borchardt, EDO**
- **Introduction: Eric Leeds, NRR**
- **Rule Concept and Staff Views:
William Ruland, NRR/DSS**
- **Background and Rule Requirements:
Richard Dudley, NRR/DPR**
- **Generic Supporting Studies:
Rob Tregoning, RES/DE**

Summary of Rule Concept; Staff Thoughts on Issuance

William Ruland

**Director, Division of Safety
Systems**

**Office of Nuclear Reactor
Regulation**

§50.46a Final Rule Concept

- **Alternative to existing ECCS requirements (§50.46)**
- **LOCAs divided into 2 regions based on break frequency – by transition break size (TBS)**
- **Requirements unchanged for 1st region (\leq TBS)**

§50.46a Final Rule Concept

- In 2nd region (> TBS) LOCA mitigation requirements relaxed for lower frequency breaks**
- Plant changes “enabled” by new requirements also evaluated by a risk-informed process**

§ 50.46a Final Rule Concept

- **Transition break size**
 - **PWRs – largest attached pipe to the main coolant piping**
 - **BWRs – largest attached feedwater or residual heat removal line inside containment**

ECCS Analysis Requirements

- **Breaks \leq TBS**

- **No change from current §50.46**

- **Breaks $>$ TBS**

- **No single failure assumption**

- **Credit for offsite power**

- **Credit for non-safety equipment**

- **Acceptance criteria: coolable geometry & long term cooling**

Staff Views on §50.46a Rule

- **Maintains adequate protection**
- **Provides design and operational flexibility**
- **Incorporates stakeholder input**
- **Regulatory analysis shows large potential benefits**

Staff Views on §50.46a Rule

- **Risk assessment requirements consistent with Risk-Informed Fire Protection - 10 CFR 50.48(c)**
- **Design constraints consistent with ACRS recommendations on defense-in-depth**

Staff Views on §50.46a Rule

- **Rule has been much debated**
- **Base changes on experience**
- **Investment to evaluate benefits is unlikely until rule is issued**
- **Potentially useful for GSI-191**

Staff Views on §50.46a Rule

- **Uncertainties are important**
- **Frequency curves developed by expert judgments based on best available information**
- **Rule developed in consideration of uncertainties associated with rare events**

Stakeholder Concerns

- **Burden for beyond TBS breaks not commensurate with safety significance**
- **TBS too large**

Stakeholder Concerns (con't)

- **Requirements should not be relaxed until ECCS acceptance criteria in 50.46(b) are finalized**
- **Current ECCS models and criteria are non-conservative and therefore relaxing other input conservatisms is unsafe**

Background and Rule Requirements

Richard Dudley

Senior Project Manager

Division of Policy and Rulemaking

Office of Nuclear Reactor

Regulation

Background

- **Proposed rule November 2005**
- **Industry commented on rule burden**
- **2 public meetings**
- **November 2006 ACRS concerns on defense-in-depth**
- **Current rule balances safety with essential burden**

Overview of §50.46a Rule Process and Requirements

Conversion to §50.46a

- **Demonstrate applicability of expert elicitation report and seismic study**
 - **To ensure the generic conclusions on adequate safety apply**
- **NRC must review and approve licensee's application**

For Changes Enabled by §50.46a

- **Re-analyze ECCS for the new configuration**
- **For non-safety equipment credited in >TBS analysis:**
 - **List in Administrative Controls section of Tech Specs (no LCOs)**
 - **Provide capability for on-site power**

For Changes Enabled by §50.46a

- **Perform risk-informed evaluation**
 - **Demonstrate adequacy of:**
 - **defense-in-depth**
 - **safety margins**
 - **monitoring program**
 - **Demonstrate that risk acceptance criteria are met (“very small”)**

Operational Requirements

- **Review all future plant changes to ensure applicability of generic studies**
- **Periodically confirm via PRA update that total risk increase “very small”**
- **Do not operate in condition not meeting > TBS acceptance criteria for more than a short time**

Applicability to New Reactors

- **Can use rule if new reactor is “similar” in design and operation**
- **Applicant must propose and justify**
 - **“similarity” and appropriate TBS**
- **NRC design-specific review**
 - **approve similarity and TBS**

**Generic Studies Performed to
Support Determining the
Transition Break Size**

**Robert Tregoning
Senior Advisor for Materials
Division of Engineering
Office of Nuclear Regulatory
Research**

Background

- **March 2003 SRM directed staff to estimate LOCA frequencies**
 - **Realistically conservative**
 - **Incorporate margins for uncertainty**
- **LOCA frequencies documented in NUREG-1829**

NUREG-1829: Scope and Significant Assumptions

- **Scope: Generic BWR and PWR passive-system LOCA frequencies**
- **Assumptions**
 - **Typical plant history and operation**
 - **No future plant changes that affect LOCA frequencies**

NUREG-1829: Results

- **Panelists provided quantitative estimates supported by rationale**
 - **Rationale: Good agreement**
 - **Estimates: Large uncertainty**
- **Results sensitive to aggregation scheme**

NUREG-1829: Use of Results

- **Use in §50.46a**
 - **Starting point for TBS values**
 - **Account for other considerations**
 - **Promote regulatory stability**
- **Additional staff evaluation**
 - **Assessed other LOCA contributors**
 - **Evaluated risk due to seismic events**

NUREG-1903: Scope and Significant Assumptions

- **Scope: Determine if seismic risk is acceptable for breaks > TBS**
- **Assumptions**
 - **Plant information remains applicable**
 - **Stresses from rare seismic event are representative**

NUREG-1903: Results

- **Direct piping failures**
 - **Acceptable risk for unflawed piping**
 - **Flaws leading to failure are expected to be large**
- **Indirect piping failures**
 - **Acceptable risk for two plants studied**
 - **Results are highly plant-specific**

NUREG-1903: Use of Results

- **Use in §50.46a**
 - **Risks of seismically induced LOCAs are expected to be acceptable**
 - **TBS selection is appropriate**
- **Limitations**
 - **Analyses may not be applicable**
 - **Indirect failure risks not generically evaluated**

Regulatory Guide Development

- **DG-1216 published for comment**
 - **Maximizes use of prior submittals**
 - **Provides multiple options**
- **Stakeholder comments**
 - **Guidance is too complex**
 - **Costs may limit application of rule**
- **Pilot plant study proposed**

Acronyms

NRC – Nuclear Regulatory Commission

ECCS – emergency core cooling system

TBS – transition break size

LOCA – loss of coolant accident

PWR – pressurized water reactor

BWR – boiling water reactor

DBA – design basis accident

LCO – limiting conditions for operation

Acronyms

ACRS – Advisory Committee on Reactor Safeguards

GSI – Generic Safety Issue

PRA – probabilistic risk assessment

CFR – Code of Federal Regulations

FEA – finite element analysis

RG – Regulatory Guide

Optional Self-Approval Process

- **If self-approved change process is desired, submit risk-informed process**
- **Criteria for self-approved changes:**
 - **“minimal” risk increase**
 - **§50.59 is satisfied**

Applicability to New Reactors

- **Risk change acceptance criteria**
 - **Same as current plants, but further limited to not allow significant reduction in level of safety provided by new Part 52 design**

From: Coe, Doug
To: Correia, Richard; Coyne, Kevin
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources
Date: Wednesday, March 16, 2011 4:35:54 PM

I'm Ok.
DRA has very little risk work and only a little environmental work to do on this NMSS work. So this distribution should be fine.
Doug

From: Correia, Richard
Sent: Wednesday, March 16, 2011 3:14 PM
To: Coyne, Kevin; Coe, Doug
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

Ok Kevin...I do not have any objections.

Doug?

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 1:33 PM
To: Correia, Richard
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

Rich -

RES/PMDA actually needs an answer today. The DE proposal is reasonable to me, just wanted to inform you of the status and make sure you didn't have an objection.

-Kevin

From: Correia, Richard
Sent: Wednesday, March 16, 2011 1:22 PM
To: Coyne, Kevin
Cc: Coe, Doug; Ott, William; Marksberry, Don; Demoss, Gary
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

Thx Kevin,

Let's discuss this proposal when you, me and Doug go over the staffing plan/situation next week.

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 12:15 PM
To: Correia, Richard
Cc: Coe, Doug; Ott, William; Marksberry, Don; Demoss, Gary
Subject: FW: action please reply by COB today 3/16: allocation of EST/WC resources
Importance: High

Rich -

(b)(5)

AS/154

(b)(5)

So, I'm ok with the DE proposal (they promise to share resources when the time comes...), but I wanted to give you a heads up...

Kevin

From: Gavrilas, Mirela

Sent: Wednesday, March 16, 2011 11:27 AM

To: Demoss, Gary; Voglewede, John

Cc: Coyne, Kevin; Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy

Subject: action please reply by COB today 3/16: allocation of EST/WC resources

Importance: High

Gary (Kevin)/John,

(b)(5)

(b)(5)

Please let me know what your division thinks. I need to give Kathleen an answer tomorrow morning, so I'd much appreciate your input today.

Thanks,
M.

Zabel, Joseph

From: Perkins, Richard
Sent: Wednesday, March 16, 2011 4:43 PM
To: Zabel, Joseph
Subject: RE: Report for Review (Upstream Dam Failure)
Attachments: Dam Failure_Compress_2011_03_16.docx

Joe,
If you have not started your review of this yet, you may prefer to use this copy which includes additional changes made today.
Thank you!
Richard

From: Zabel, Joseph
Sent: Wednesday, March 16, 2011 7:28 AM
To: Perkins, Richard
Subject: RE: Report for Review

Hi Richard:

I can review your report, but I won't be able to get it back to you until sometime next week. Will that work within your timeframe?

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
06D05

From: Perkins, Richard
Sent: Tuesday, March 15, 2011 5:44 PM
To: Zabel, Joseph
Subject: Report for Review

Joe,

Are you able to review the attached Analysis Report for our branch?

Thank you,

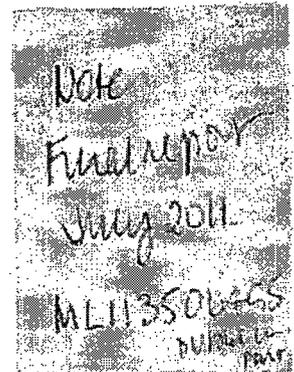
Richard H. Perkins, P.E.
Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Division of Risk Analysis
Operating Experience and Generic Issues Branch

3/16/2011

Final Draft

**Screening Analysis Report for the Proposed Generic Issue on
Flooding of Nuclear Power Plant Sites Following Upstream Dam Failures**

Richard H. Perkins, P.E.
Michelle T. Bensi, Ph.D.
Jacob Philip, P.E.
Selim Sancaktar, Ph.D.

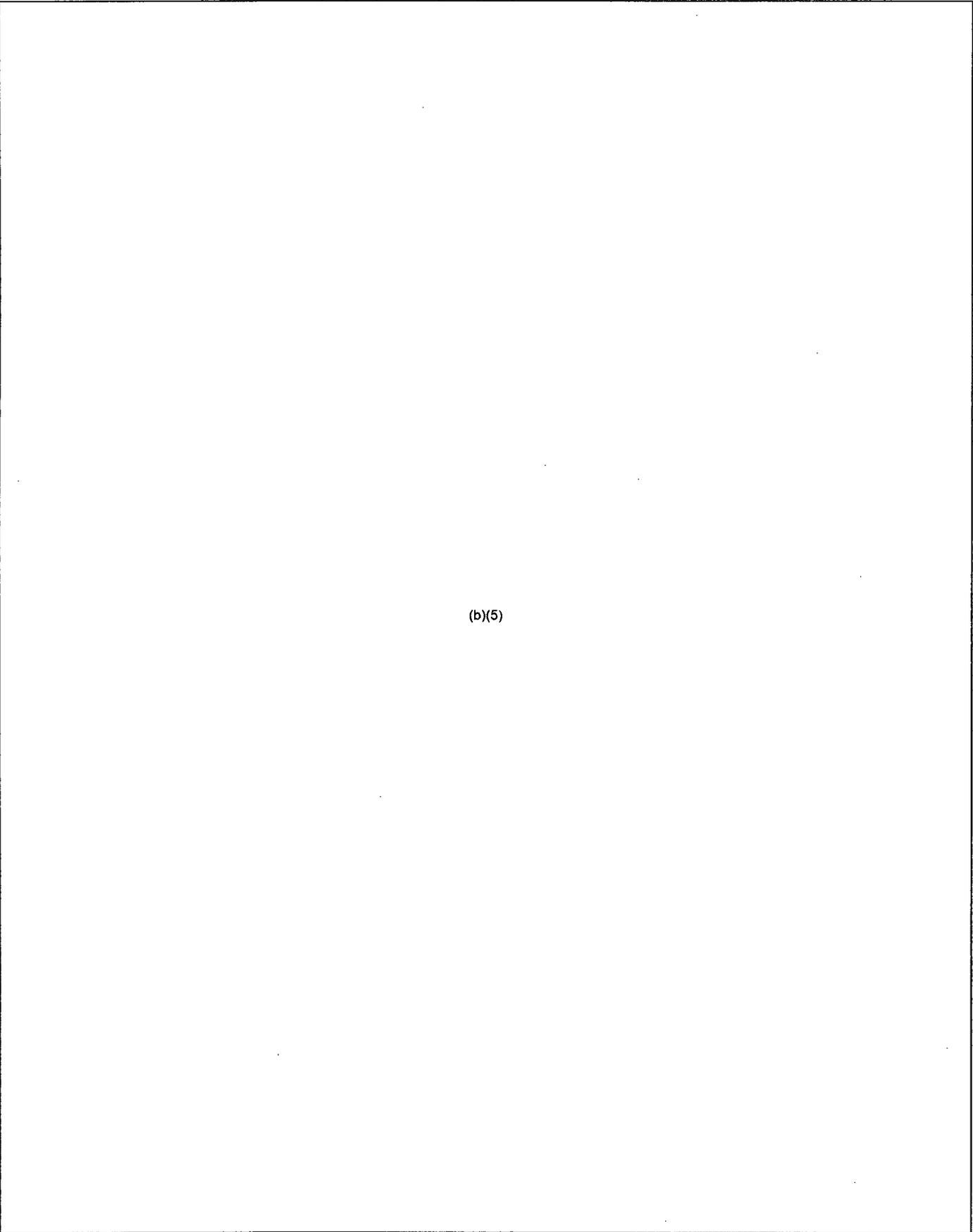


United States Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Division of Risk Analysis

March 2011

Final Draft

(b)(5)



(b)(5)

(b)(5)

(b)(5)

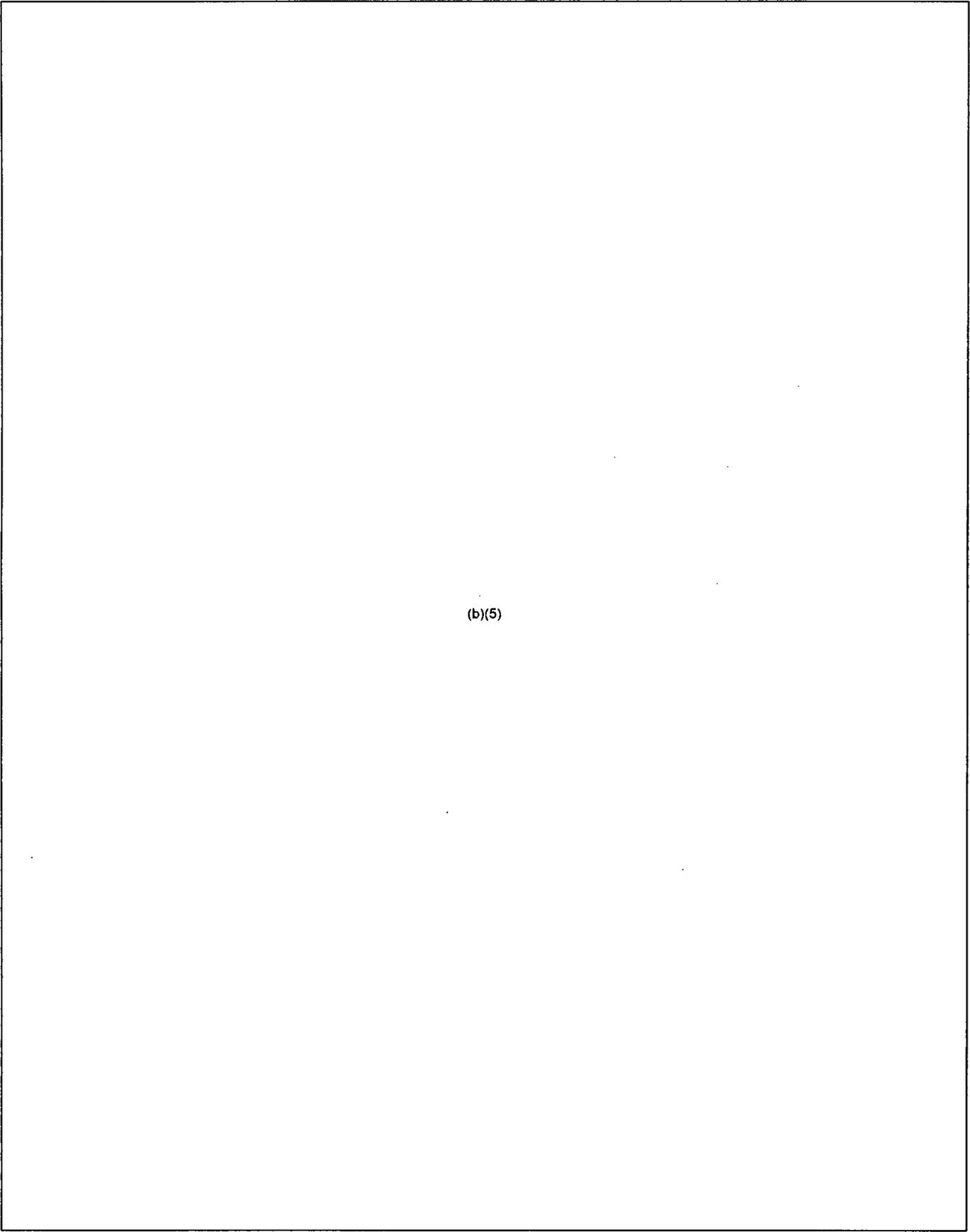
(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)



(b)(5)

(b)(5)

From: Howe, Allen
To: Ruland, William; Brown, Frederick; McGinty, Tim; Blount, Tom; Quay, Theodore; Lubinski, John; Thomas, Brian; Nelson, Robert; Gitter, Joseph; Westreich, Barry; Bahadur, Sher; Hoffman, Brian; Cheok, Michael; Lee, Samson; Wilson, George; Hilland, Patrick; Skeen, David
Cc: Martin, Robert; Meighan, Sean
Subject: Response requested: Assistance with Commission Brief
Date: Wednesday, March 16, 2011 4:47:35 PM
Attachments: Scheduling NoteMar2011 JapaneseEvent agh 3-16-2011.docx
commission meeting outline 3-16-2011.docx
Importance: High

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

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

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

Path Forward and Priorities – Eric Leeds – lead NRR

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

Thanks - Allen

AS/156

Draft: 3/16/11

SCHEDULING NOTE

Title: BRIEFING ON JAPANESE EVENT and US RESPONSE (Public?)

Purpose: To provide the Commission a status on the recent event in Japan, and to provide an overview of staff actions to date, early planned actions

Scheduled: March XX, 2011
9:00 am

Duration: Approx. 1.5 hours

Location: Commissioners' Conference Room OWFN

Participants: **Presentation**

NRC Staff Panel **50 mins.***

Bill Borchardt, Executive Director for Operations 15 mins.*
Topic: Overview of Japanese Event and U.S. response

Mike Weber, Deputy Executive Director Materials, Waste, Research, State, Tribal and Compliance Programs 10 mins.*
Topic: Potential consequences; what will be seen in U.S.

Marty Virgilio, Deputy Executive Director for Reactor and Preparedness Programs 10 mins.*
Topic: Situation assessment for U.S. reactors and applicants

Elliot Brenner, OPA 5 mins.*
Topic: Communication Challenges

Eric Leeds, Director, NRR 10 mins.*
Topic: Path forward; Near term and longer term

Commission Q & A **30 mins.**

Discussion – Wrap-up **5 mins.**

Documents:

Staff background material due to SECY: March __, 2011.

Slides due to SECY: March __, 2011.

DRAFT Commission Meeting Outline 3/16/2011

NRC Response to Core Damage Accident in Japan

EVENT OVERVIEW AND U.S. RESPONSE – Bill Borchardt

Current Status of Fukushima Daiichi – lead OPS Center

- Reactors
- Spent Fuel Pools

NRC Response Objectives

- Support of US Citizens in Japan - lead OIP
- Support of the Japanese Government - lead OIP
- Advance Our Understanding of Safety and Risk - lead RES

NRC Response Actions – lead OPS Center

- In Japan
- At HQ

US Government Response – lead OCA

- NRC Partners and Stakeholders

POTENTIAL CONSEQUENCES – Mike Weber

Consequence Projections – lead FSME/RES

- In Japan
- In US

COMMUNICATION CHALLENGES – Eliot Brenner – lead OPA

- Information
- Coordination

Situation Assessment For US Reactors and Applicants – Marty Virgilio– lead NRR, W/RES, NMSS support

- External Events
 - Seismic
 - Flood
 - Tsunamis
- Severe Accidents
 - SBO
 - B.5.b/50.54 (hh)(2)

- SAMGs
- Hydrogen control
- Emergency planning
- Spent fuel – NMSS support for dry casks

Path Forward and Priorities – Eric Leeds – lead NRR

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

Office Points of Contact:

RES – Jeanne Dion [301-251-7482] JAC

NRO – Donna Williams x1322

FSME – George Deegan x7834

NMSS – Chris Bajwa 301-492-3333

NRR – Allen Howe

NSIR - John Vanden Berghe and Alan Shropshire

OCA/OPA – Susan Wittick [redacted] (b)(6)

From: Scott, Michael
To: Gavrilas, Mirela; Voglewede, John
Cc: Coyne, Kevin; Demoss, Gary; Santiago, Patricia; Lee, Richard; Case, Michael; Stout, Kathleen; Gibson, Kathy
Subject: Re: action please reply by COB today 3/16: allocation of EST/WC resources
Date: Wednesday, March 16, 2011 5:15:18 PM

Okay I agree with Mirela's rec - divvy the fte's now, bucks later.

Sent from my NRC blackberry

Michael Scott

(b)(6)

From: Gavrilas, Mirela
To: Scott, Michael; Voglewede, John
Cc: Coyne, Kevin; Demoss, Gary; Santiago, Patricia; Lee, Richard; Case, Michael
Sent: Wed Mar 16 14:54:52 2011
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

Mike,

(b)(5)

If there is something specific that concerns you, please let us know.

M.

From: Scott, Michael
Sent: Wednesday, March 16, 2011 2:31 PM
To: Voglewede, John; Gavrilas, Mirela
Cc: Coyne, Kevin; Demoss, Gary; Santiago, Patricia; Lee, Richard
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

(b)(5)

From: Voglewede, John
Sent: Wednesday, March 16, 2011 1:55 PM
To: Gavrilas, Mirela
Cc: Coyne, Kevin; Scott, Michael; Demoss, Gary; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

AS/157

Mirela,

(b)(5)

John

From: Gavrilas, Mirela

Sent: Wednesday, March 16, 2011 11:27 AM

To: Demoss, Gary; Voglewede, John

Cc: Coyne, Kevin; Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy

Subject: action please reply by COB today 3/16: allocation of EST/WC resources

Importance: High

Gary (Kevin)/John,

(b)(5)

Please let me know what your division thinks. I need to give Kathleen an answer tomorrow morning, so I'd much appreciate your input today.

Thanks,

From: Check, Michael
To: Howe, Allen
Cc: Lee, Samson; Klein, Alex
Subject: FW: Summary of the 3/14 WBN2 Fire Protection conference call with TVA
Date: Wednesday, March 16, 2011 5:24:00 PM
Attachments: Management Report for WB 2.msg

FYI

From: Klein, Alex
Sent: Wednesday, March 16, 2011 3:43 PM
To: Check, Michael
Cc: Lee, Samson; Frumkin, Daniel; Moulton, Charles
Subject: FW: Summary of the 3/14 WBN2 Fire Protection conference call with TVA

Mike/Sam,

FYI.

I've asked Chuck to get on your calendar next week to give you a briefing on the WB2 fire protection review.

From: Klein, Alex *mk*
Sent: Wednesday, March 16, 2011 3:40 PM
To: Campbell, Stephen
Cc: Frumkin, Daniel; Moulton, Charles; WBN2HearingFile Resource; Milano, Patrick; Poole, Justin
Subject: FW: Summary of the 3/14 WBN2 Fire Protection conference call with TVA

Steve,

I just wanted to add a few things to Chuck's email below.

(b)(5)

AS/158

Thank you.

Alex

Alexander R. Klein, Chief
Fire Protection Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation
301-415-2822
Alex.Klein@nrc.gov

From: Moulton, Charles *CMK*
Sent: Wednesday, March 16, 2011 8:42 AM
To: Milano, Patrick
Cc: Poole, Justin; Klein, Alex; Frumkin, Daniel; Campbell, Stephen; WBN2HearingFile Resource
Subject: Summary of the 3/14 WBN2 Fire Protection conference call with TVA

Pat,

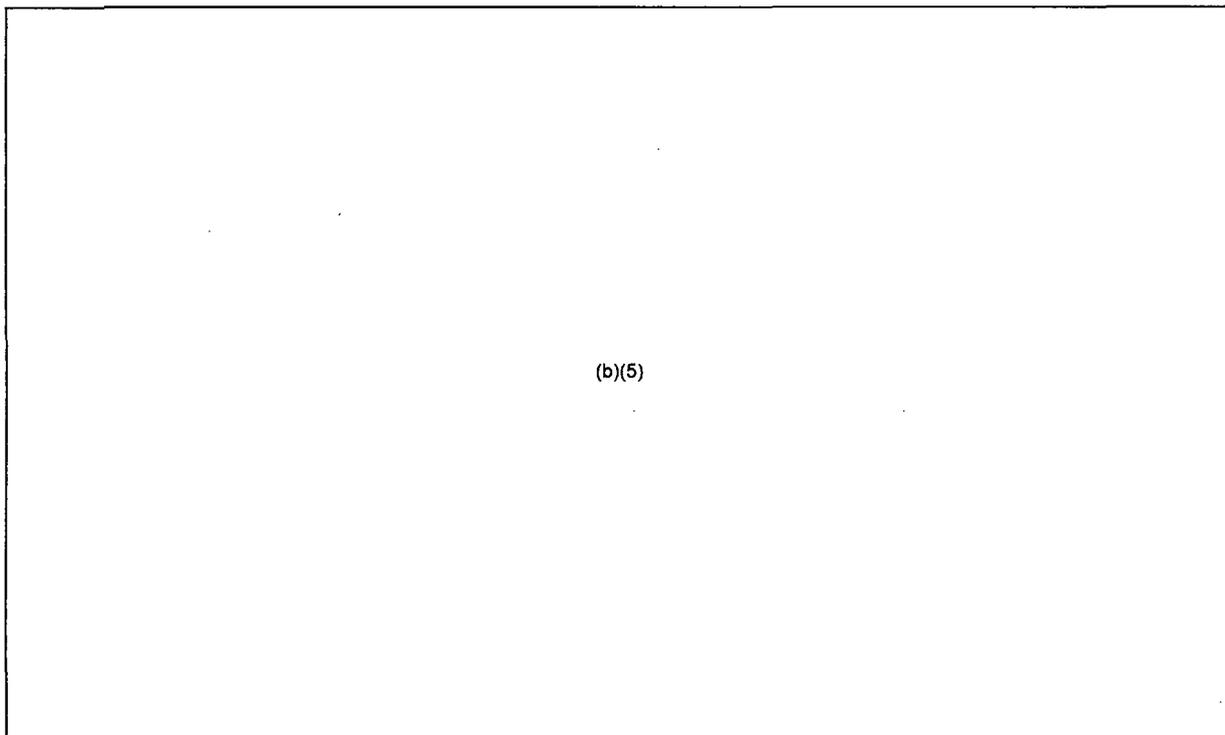
On March 14, Justin Poole, Dan Frumkin, you, and I participated in a conference call with TVA's representatives regarding TVA questions related to Fire Protection RAIs. This is a brief summary of my observations from the call.

I observed the following:

1. TVA requested clarification of two of RAIs (RAIs FPR V-1 and V-2) related to Operator Manual Actions (OMAs). The first deals with providing the criteria used to evaluate feasibility and reliability of the OMAs. The second has to do with which of the OMAs should have summaries of their evaluations included in the Fire Protection Report. Dan provided a clarification to the TVA that appeared to satisfy them.
2. TVA stated that they would resubmit the Fire Protection Report, without the two discussed RAI resolutions (feasibility/reliability criteria and evaluations for OMAs), by March 16. Note: TVA has had these RAIs since mid-January; it is now reaching two months.
3. TVA further stated that they expected to be done compiling the list of OMA feasibility/reliability criteria by March 25.
4. TVA could not state when they would have the evaluation of the OMAs that need to be included in the Fire Protection Report completed, indicating that this task would be

completed in the "future".

In addition, I draw the following conclusions from the call:



Chuck

Charles Moulton
Fire Protection Engineer
NRR/DRA/AFP
Phone: (301) 415-2751
Mailstop: O-10C15

Attachment Management Report for WB 2.msg (2560 Bytes) cannot be converted to PDF format.

From: [Graves, Herman](#)
To: [Case, Michael](#)
Cc: [Hogan, Rosemary](#); [Richards, Stuart](#)
Subject: FW: Concrete in Paris- OECD/CCNI Workshop
Date: Wednesday, March 16, 2011 5:37:48 PM
Attachments: [OECD-CSNI-TRIP-tendons.pdf](#)
[post-tensioning workshop invitation rev 1.pdf](#)

Mike,

Rosemary asked that I provide additional justification for Mita and Lili for the attached foreign travel to France to participate in the OECD/CSNI Workshop on "Post-tensioning Methods for Containment Buildings: greased or cement grouted tendons, Monitoring, Testing and analysis," April 20-21, 2011.

The justification sent to front office is attached for your review. In addition the final workshop announcement is attached.

(b)(5)

In order to meet the 30 day metric travel **documents have to completed by Friday, March 18.**

Any feedback will be appreciated.

<<Herman>>

<<301.251.7625>>

mail to: Herman.Graves@nrc.gov

From: Hogan, Rosemary
Sent: Friday, March 11, 2011 5:52 PM
To: Graves, Herman
Subject: FW: Concrete in Paris

Can you provide additional justification for Mita or maybe for Lili too?

From: Richards, Stuart
Sent: Friday, March 11, 2011 5:36 PM
To: Hogan, Rosemary

AS/159

Cc: Case, Michael
Subject: Concrete in Paris

Rosemary

(b)(5)

Please call Mike on this one.

Thanks
Stu

| ID | TripShortName | # On Trip | Travelers | Start Date | End Date | Est#Total Cost | Core? | Hand written notes: | | | |
|---------|-------------------------|-----------|-------------------------------------|------------|------------|----------------|-------|---------------------|--------|------------------------|--------------------------|
| 154 | OECD/NEA Concrete Study | 3 | Graves, Herman Sircar, Madhumita | 04/17/2011 | 04/23/2011 | \$3,927.00 | Core | | | | |
| Office: | RES | DIV: | DE | Branch: | SGSEB | City: | Paris | Country: | France | Front Office Approved? | <input type="checkbox"/> |

Comments: Lili Akin of Sandia will also participate in the workshop meeting.

Traveler Role:

(b)(5)

Desired Outcome:



OECD NUCLEAR ENERGY AGENCY

WGIAGE Expert Meeting on

"Post-tensioning methodologies for containment building: greased or cement grouted tendons – consequences on monitoring, periodic testing and modelling activities"

**Hosted by Electricity of France (EDF)
Villeurbanne (very near Lyon) – France
April 20 – 21, 2011**

Definitive Announcement

Deadline for registration:

April 4, 2011

Deadline for presentation
submission:

April 12, 2011

1 ORGANISATION AND HOST

The WGIAGE Expert Meeting on "Post-tensioning methodologies for containment building: greased or cement grouted tendons – consequences on monitoring, periodic testing and modelling activities" will be held on the 20th and 21st April, 2011 in Villeurbanne (very near Lyon), France, hosted by EDF. The aim of this announcement is to inform you of this meeting and call for attendee subscriptions in order to facilitate the organisation of the event.

On the morning of April 22nd, a visit to "Old Lyon" is planned.

2 OBJECTIVES OF THE MEETING

The objective of this meeting is to present the practice employed in different countries for cement grouted (bonded) or greased (unbonded) cables of containment buildings. Particular emphasis will be given to the methods of monitoring and periodic testing related to the grouted or non-grouted approach.

This analysis is also related to calculation issues which depend upon concrete/cable bond, therefore specific information must be delivered concerning containment modelling.

The objective of the Expert Meeting is to share information between regulators, utilities and throughout the industry as well as a sharing of experiences and R&D activities within the member countries.

This Meeting is a step towards the objective of a "state of the art" containment monitoring system dependant on cable bond conditions.

3 BACKGROUND OF THE MEETING

The main purposes of nuclear power plant containments is to provide a final physical barrier to the release of radioactive fission products into the environment and to protect the reactor and other safety related structures, systems and components from external aggressions. The monitoring systems and periodic testing relative to the containment structure must be consistent with the design choice made on post-tensioning methodologies.

The background to the proposed study concerns both existing plants, where Long Term Operation projects lead to questions about monitoring and new plants which provide an opportunity to improve the different monitoring practices.

Taking into account these aspects, OECD NEA/CSNI decided to launch an activity (CAPS) on Post-tensioning methodologies for containment buildings in order to show the advantages and disadvantages of grouted and not grouted technologies alongside one another, with the associated consequences on monitoring and modelling.

To improve efficiency, two subgroups have been set up; one for monitoring and testing and another for modelling.

4 SCOPE, CONTENT AND OUTLINE OF THE MEETING

The Expert Meeting will include an introductory session, some technical presentations devoted to monitoring and tests and to numerical simulations by participants and numerous separate meetings dedicated to monitoring & tests and others to numerical aspects. The Meeting will end with a final summary session.

All the participants are expected to take part in the discussion and in the formulation of conclusions in the final session.

Presentations and case studies addressing the following issues are welcomed. Several sessions with ample time for discussion will be defined according to these topics.

Monitoring & testing part:

Each country will have the opportunity to present its understanding about the consequence of post-tensioning methodologies on monitoring design and tests definition; these findings can be broken down in the following items:

- General philosophy on cables bond
- Technical prescriptions for grouting phases
- Objective and definition of monitoring systems (except for pressure test)
- Objective and definition of pressure tests
- Definition of monitoring systems during pressure test
- Measurement and analysis of monitoring data

Numerical simulation part:

In the numerical simulation part of the workshop the benchmark simulations by all participants are presented: the benchmark simulation task is to simulate the ISP48- containment 1:4 scale up ultimate limit state with two different assumption of the post-tensioning technology used:

1) For unbonded tendons, the following load steps are considered:

- Own weight
- Post-tensioning with angular wobble and anchor slip losses taking into account the slippage between tendons and concrete
- Transient between post-tensioning and pressure testing taking into account of the creep and shrinkage
- Internal pressure ramp up to failure the slippage between tendons and concrete

1) For bonded tendons, the following load steps are considered:

- Own weight
- Post-tensioning with angular wobble and anchor slip losses the slippage between tendons and concrete
- The grouting of tendons when the slippage between tendons and concrete is locked
- Transient between post-tensioning and pressure testing taking into account of the creep and shrinkage
- Internal pressure ramp up to failure taking assuming perfect bond between tendons and concrete

5 LOGISTICS AND PARTICIPATION IN THE MEETING

Participants

As usual for OECD/NEA Meetings, participation is open to experts from regulatory authorities and their technical support organisations, research organizations, NPP owners and operators, NPP designers and vendors and industry associations and observers from OECD NEA member countries. Nominations should be made through the Secretariat of the Host Organisation. Those wishing to make a presentation at the meeting should submit by mail a power-point file with their preliminary registration form.

The meeting is open to a small number of experts from non-OECD member countries. The participation of these experts will be arranged by the Host Secretariat who will be in relationship with OECD NEA Secretariat.

Registration

Participants should fill in the attached registration form and send it at Etienne Gallitre before **April 4, 2011** to :

Etienne.gallitre@edf.fr.

A registration fee is not required. The Host offers only a coffee break and a light midday meal. The minutes of meeting will be sent by NEA Secretariat after the end of the meeting.

The Organising Committee will confirm the acceptance of registration for the meeting

Location and accommodation

The workshop will be held in Villeurbanne (very close to Lyon), France and organised by EDF.

The address (for meetings):

8 cours André Philippe 69100 Villeurbanne France

Hotels have to be managed by the participants: The meeting room building is close to "Charpennes" Metro Station which is directly connected (via lines A and B) to the Lyon Metro System. So each participant can book a hotel in the centre of Lyon, one of the France oldest cities.

Language

All presentations and discussions will be in English, participants should be competent in English to fully benefit from the workshop.

Presentation and meetings

As this meeting is mainly a working meeting, **no paper is required**: only a short power-point presentation has to be sent to the host in order to facilitate the final organisation :

Power point to be sent to: **Etienne.gallitre@edf.fr.**

Every meeting will start at 9h00 and end at 17h00

Expert Meeting Proceedings

Proceedings from the meeting will be published as a first step of the CAPS work, and will include power-point presentations, conclusions and recommendations from the discussion groups, and summary of panel discussions.

Organizing Committee

The following persons form the organizing committee of the meeting:

| | | | |
|------------------|----------|---------------|---|
| Etienne GALLITRE | EDF | France | Organisation Secretariat and supervisor |
| Pentti VARPASUO | Fortum | Finland | Numerical simulation supervisor |
| Herman GRAVES | US NRC | USA | Monitoring and test supervisor |
| François TARALLO | IRSN | France | Technical reviewer |
| Alejandro HUERTA | OECD-NEA | International | NEA Secretariat |

6 After seminar tourist visit

Lyon being one of the oldest town of France, well known as the Capital of Gauls during the gallic period, a visit by foot with a guide is organized on the 22th of April in the morning. The Roman Theatre (still in operation for summer events), the end of Lyon Roman Aqueduct and Saint-Jean Cathedral will be among the masterpieces which can be seen. This visit will end at Middy.

7 Contact address

| | |
|--|---|
| Dr Etienne Gallitre EDF-SEPTEN Civil Engineering Expert 12-14 avenue Dutrievoz 69628 Villeurbanne | tel (33) 4 72 82 71 60 etienne.gallitre@edf.fr |
| Dr Pentti Varpasuo Principal Engineer Fortum Nuclear Services Ltd Keilaniementie 1 00048 Fortum | Tel + 358 10 453 2223 Fax +358 10 453 3985 pentti.varpasuo@fortum.com |
| Mr Alejandro Huerta OECD Nuclear Energy Agency Le Seine St. Germain 12 Bd des iles F-92130 Issy-les-Moulineaux | tel : (33) 1 45 24 10 57 fax : (33) 1 45 24 11 29 alejandro.huerta@oecd.org |



OECD NUCLEAR ENERGY AGENCY

WGIAGE Expert Meeting on

"Post-tensioning methodologies for containment building: greased or cement grouted – consequences on monitoring, periodic tests and modelling activities"

Hosted by Electricity of France
Villeurbanne (close to Lyon) – France
April 20 – 21, 2011

Registration / Abstract Form

In response to the announcement and call for papers we inform you of the nomination of

Surname (Family Name)¹:

Given Name (s):

Title or Function:

Institution, Organization or
Company (full address):

Telephone No. :

Telefax No

E-mail address:

Title of the presentation (file to
be sent, if any before April 12)

To be sent as soon as possible, according to the specified deadlines, to

Dr Etienne Gallitre

tel (33) 4 72 82 71 60

EDF-SEPTEN

Civil Engineering Expert

etienne.gallitre@edf.fr

12-14 avenue Dutrievoz

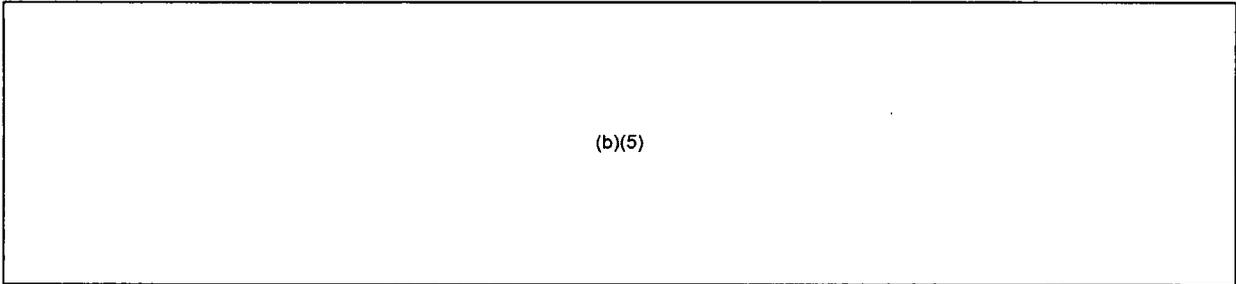
69628 Villeurbanne

OECD Nuclear Energy Agency

¹ (Please indicate whether Prof., Dr., Mr., Mrs., Miss, Ms.)

From: Covne, Kevin
To: Xing, Jing; Peters, Sean
Cc: Scott, Michael; Zaki, Tarek
Subject: ACTION: Quick Turnaround Budget Question
Date: Wednesday, March 16, 2011 5:55:00 PM
Importance: High

Jing –



As all budget questions – very quick turnaround....

AS/160

From: Grobe, Jack
To: Leeds, Eric
Cc: Schwarz, Sherry
Subject: Fw: Jack Requested You Call Joe Donahue on his behalf
Date: Wednesday, March 16, 2011 6:18:59 PM

Note - public meeting cancelled.
Jack Grobe, Deputy Director, NRR

From: Wilson, George *inrc*
To: Hiland, Patrick; Skeen, David; Grobe, Jack; Cohen, Shari
Cc: Skeen, David; Khanna, Meena
Sent: Wed Mar 16 15:53:37 2011
Subject: RE: Jack Requested You Call Joe Donahue on his behalf

Pat,

As requested, I called Joe Donahue of Progress Energy. I explained to Joe that Jack is busy responding to the Japanese event and relayed his regrets that he was not able to contact him directly. I indicated that I was calling on Jack's behalf to obtain a current status of the recent issue at Crystal River Unit 3. Joe indicated that during the repair, and during the last pass (pass 11) of the retensioning activities, there was an additional delamination, which was identified in bay 5/6. He did indicate that the computer models that they ran did not predict any indications or issues of retensioning because the margins were maintained in bay 5/6. Joe indicated that they are continuing to perform a root cause assessment as well as extent of condition assessment. He stated that this additional delamination issue will cause a "significant delay" in their restart schedule. Progress Energy has been in discussions with the region and agreement was reached to cancel the public meeting that was scheduled for March 22. The region will be issuing a cancellation notice of the meeting, shortly.

Thanks,
George

From: Hiland, Patrick *inrc*
Sent: Wednesday, March 16, 2011 3:08 PM
To: Khanna, Meena
Cc: Wilson, George; Skeen, David
Subject: FW: Jack Requested You Call Joe Donahue on his behalf
Importance: High

Meena, I sent the below to George Wilson and asked him to return call to Progress Energy. You may want to give him a heads up prior to call.

From: Hiland, Patrick *inrc*
Sent: Wednesday, March 16, 2011 3:03 PM
To: Wilson, George
Cc: Skeen, David
Subject: FW: Jack Requested You Call Joe Donahue on his behalf
Importance: High

Hey George, can you handle the below? FYI Crystal River identified an anomaly Monday

CAS/161

while doing final re-tensioning. Meena/Farhead will have the specific details. Explain that Jack is responding to the escalating problems in Japan and regret he was unable to return the call. You as Acting DE might ask if they have drawn any conclusions yet? Also, there is supposed to be a public meeting at the site next week (3/22) with Eric Leeds attending.

From: Cohen, Shari
Sent: Wednesday, March 16, 2011 2:56 PM
To: Hiland, Patrick
Subject: Jack Requested You Call Joe Donahue on his behalf

Jack had called Joe (of Progress Energy) yesterday asking for technical information on Crystal River III. Jack was too busy to take Joe's return call when he called Jack back so Jack asked that you please call Joe on his behalf – Joe's number is (b)(6) (bb).] efb
Thank you!

Shari Cohen, Contract Secretary
Office of Nuclear Reactor Regulation, USNRC
Room – O-13H18 / Mail Stop - O13H16M
Phone – 301-415-1270
Fax - 301 - 415-8333
Email - shari.cohen@nrc.gov

From: [Santiago, Patricia](#)
To: [Coyne, Kevin](#)
Cc: [Gibson, Kathy](#); [Scott, Michael](#)
Subject: Re: SECY PRA/SOARCA OCM Brief
Date: Wednesday, March 16, 2011 6:50:49 PM

We can ask for that time period and recognize it could be adjusted. Thanks

Sent from an NRC BlackBerry
Patricia Santiago

(b)(6)

From: Coyne, Kevin
To: Santiago, Patricia
Cc: Gibson, Kathy; Scott, Michael
Sent: Wed Mar 16 18:28:35 2011
Subject: RE: SECY PRA/SOARCA OCM Brief

Pat –

I'm not sure how much scheduling flexibility we really have on this. The SECY paper will go up by July 7 and EDO/SECY would schedule the meeting no earlier than two weeks after that. So, the earliest we could meet would then be July 21. I'll send a note to Greg Bowman with your preference, but I think the exact date is pretty much out of our hands.

-Kevin

From: Santiago, Patricia
Sent: Wednesday, March 16, 2011 6:09 PM
To: Coyne, Kevin
Cc: Gibson, Kathy; Scott, Michael
Subject: SECY PRA/SOARCA OCM Brief

Kevin,
I missed you and wanted to coordinate a proposed date for the briefing. If we can have it the first 2 weeks of August, we believe the SOARCA documents will be public. Please let me know if you have another proposal.

Thanks,

Pat

Patricia A. Santiago
Chief, Special Projects Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research
Phone- 301-251-7982
Fax- 301-251-7426
Patricia.Santiago@nrc.gov

AS/162

From: Coyne, Kevin
To: Gavrilas, Mirela
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources
Date: Wednesday, March 16, 2011 7:17:00 PM

Sounds good....

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

From: Gavrilas, Mirela
Sent: Wednesday, March 16, 2011 7:15 PM
To: Coyne, Kevin
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

(b)(5)

M.

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 4:43 PM
To: Gavrilas, Mirela
Cc: Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy; Demoss, Gary; Voglewede, John; Coe, Doug; Correia, Richard
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

Mirela -

(b)(5)

Kevin

From: Gavrilas, Mirela
Sent: Wednesday, March 16, 2011 11:27 AM
To: Demoss, Gary; Voglewede, John
Cc: Coyne, Kevin; Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy
Subject: action please reply by COB today 3/16: allocation of EST/WC resources
Importance: High

Gary (Kevin)/John,

(b)(5)

AS/163

(b)(5)

Please let me know what your division thinks. I need to give Kathleen an answer tomorrow morning, so I'd much appreciate your input today.

Thanks,
M.

From: [Kuritzky, Alan](#)
To: [Coyne, Kevin](#)
Subject: RE: ACTION: Senior Performance Official Mid-year Reviews - Due 3/21
Date: Wednesday, March 16, 2011 7:21:03 PM

This is why you are a manager! I really like your wording.

(b)(5)

(b)(5)

Alan

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 7:14 PM
To: Kuritzky, Alan
Subject: RE: ACTION: Senior Performance Official Mid-year Reviews - Due 3/21

Alan –

How 'bout something like this:

(b)(5),(b)(6)

From: Kuritzky, Alan
Sent: Tuesday, March 15, 2011 10:20 AM
To: Coyne, Kevin
Subject: RE: ACTION: Senior Performance Official Mid-year Reviews - Due 3/21

Kevin,

Attached is my draft input for the SPO mid-year. I'm not sure how well it fits the template or if I should break up the narrative into different sections.

Alan

AS/164

From: Hudson, Daniel

Sent: Friday, March 11, 2011 10:53 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: Senior Performance Official Mid-year Reviews - Due 3/21

BCs:

We have now received our tasking to complete the mid-year Senior Performance Official (SPO) reviews of the other offices.

Please consider rating all of the offices with which you have had significant interactions to date during this fiscal year. When providing input, please use the attached template that includes guidance for developing supporting remarks and areas for improvement, and clearly identify the office you are rating. Please note that secondary assessments apply only to NSIR, SBCR, SECY, OCA, and OPA, and should include identification of your means of communications with that office (e.g., periodic coordination via meetings or teleconferences on specific projects).

An example of a good input is:

- Maintains excellent working relationship in specifying new user need requirements such as those for the thermal-hydraulic/neutronics modeling of transients in reactors with once through steam generators. Provides valuable feedback and constructive comments on RES products intended for NRO. Continues to enhance efficiency in model development process by securing data from licensees for extended power uprate plant decks. (DSA/CDB)

NOTE: If you have an area for improvement for any of the offices, we will need to ensure that an SES manager has discussed the matter with the receiving office SES prior to submitting the input. **Please notify Doug as soon as possible if you intend to submit an area for improvement.**

Please provide any input you have to Jose Ibarra by COB on Monday, 3/21.

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

From: Coyne, Kevin
To: Demoss, Gary
Subject: FW: action please reply by COB today 3/16: allocation of EST/WC resources
Date: Wednesday, March 16, 2011 7:24:00 PM

(b)(5)

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

From: Gavrilas, Mirela
Sent: Wednesday, March 16, 2011 7:15 PM
To: Coyne, Kevin
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

(b)(5)

M.

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 4:43 PM
To: Gavrilas, Mirela
Cc: Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy; Demoss, Gary; Voglewede, John; Coe, Doug; Correia, Richard
Subject: RE: action please reply by COB today 3/16: allocation of EST/WC resources

Mirela -

(b)(5)

Kevin

From: Gavrilas, Mirela
Sent: Wednesday, March 16, 2011 11:27 AM
To: Demoss, Gary; Voglewede, John
Cc: Coyne, Kevin; Scott, Michael; Case, Michael; Santiago, Patricia; Lee, Richard; Stout, Kathleen; Spencer, Ruth; Gibson, Kathy
Subject: action please reply by COB today 3/16: allocation of EST/WC resources
Importance: High

Gary (Kevin)/John,

(b)(5)

AS/165

From: Covne, Kevin
To: Demoss, Gary; Marksberry, Don
Subject: NASA SECY Paper
Date: Wednesday, March 16, 2011 7:30:00 PM

Gary, Don –

Brian kicked back the paper with comment

(b)(5)

You probably should look at setting up a briefing for Brian at your earliest convenience (Friday).

I left the paper on Gary's chair...

Kevin

AS/166

From: Coe, Doug
To: Coyne, Kevin; Salley, MarkHenry; Kuritzky, Alan; Marksberry, Don; Ott, William; Beasley, Benjamin
Cc: Demoss, Gary; Stutzke, Martin; Ibarra, Jose; Hudson, Daniel; Peters, Sean; Xing, Jing; Correia, Richard
Subject: RE: RES support for commission meeting on Monday 3/21.
Date: Wednesday, March 16, 2011 7:35:43 PM

I expect this will be a public meeting and therefore our key messages must be couched accordingly. RES/DRA will likely get asked to provide bullets on our work on PRA model improvement in general and on GI-199 in particular.

(b)(5)

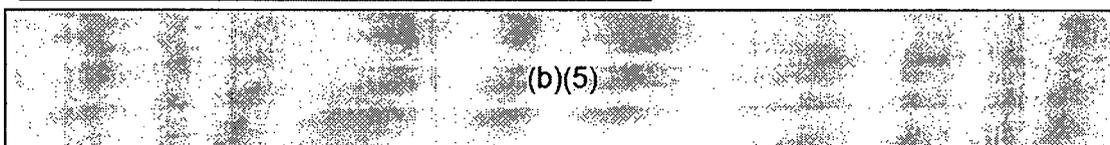
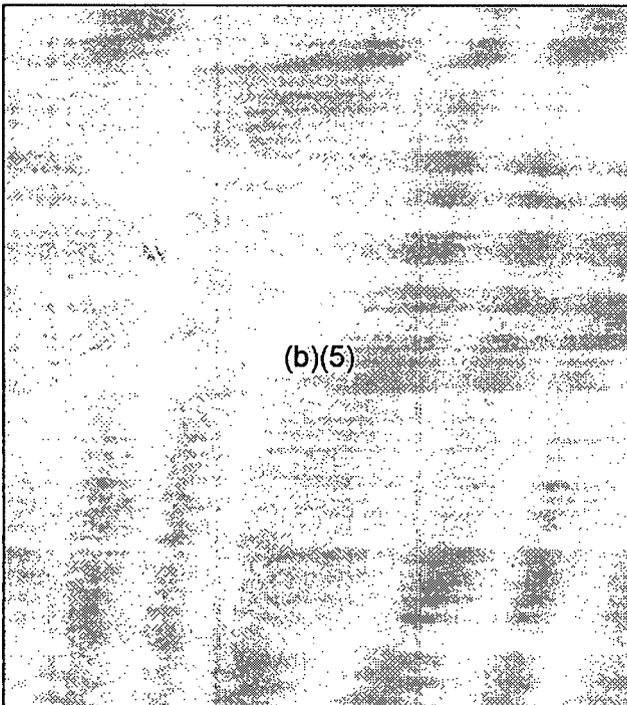
We'll see what the scheduling call brings

tomorrow.

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

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

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



AS/167

(b)(5)

this...

Kevin

From: Dion, Jeanne

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

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

Cc: Rini, Brett; Armstrong, Kenneth

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

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

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

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

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

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

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

- RES to assist NRR as requested.

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

Thanks,

Jeanne Dion

Technical Assistant (Acting)

U.S. Nuclear Regulatory Commission

Office of Nuclear Regulatory Research

jeanne.dion@nrc.gov

301-251-7482

From: Giitter, Joseph
To: Leeds, Eric; Howe, Allen; Ruland, William; Boger, Bruce; Grobe, Jack
Cc: Brown, Frederick; McGinty, Tim; Hiland, Patrick
Subject: RE: Brain-storming upcoming Commish meeting
Date: Wednesday, March 16, 2011 7:47:42 PM
Attachments: Eric Leeds Remarks.docx

Eric - I took a stab and putting some thoughts together. It needs a lot of work, but it is a start.

From: Leeds, Eric
Sent: Wednesday, March 16, 2011 1:34 PM
To: Howe, Allen; Ruland, William; Boger, Bruce; Grobe, Jack
Cc: Brown, Frederick; McGinty, Tim; Giitter, Joseph; Hiland, Patrick
Subject: Brain-storming upcoming Commish meeting

Allen/all -

I will undoubtedly need your help in crafting the staff's messages for the upcoming Commission meeting on the Japanese event

(b)(5)

(b)(5)

(b)(5)

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

AS/168

Draft Remarks for Eric in Preparation for the upcoming Commission Meeting on the event at the Fukushima Daiichi Plant in Japan

(b)(5)

(b)(5)

Withhold AM-Ex 5

From: Marksberry, Don
To: Coyne, Kevin
Subject: RE: Do you have examples for the interoffice appraisal?
Date: Wednesday, March 16, 2011 10:34:45 PM

He is look for our input for us

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 6:41 PM
To: Marksberry, Don
Subject: RE: Do you have examples for the interoffice appraisal?

(b)(5)

(b)(5)

From: Marksberry, Don
Sent: Wednesday, March 16, 2011 2:23 PM
To: Coyne, Kevin
Subject: Do you have examples for the interoffice appraisal?

See-Meng asked for our input for NRR/DRA's input for our performance

AS/169

Dean, Bill

From: Dean, Bill
Sent: Wednesday, March 16, 2011 10:46 PM
To: Wilson, Peter
Subject: RE: Update On Calvert Cliffs SGI Special Inspection

nice summary by silas. thanks

From: Wilson, Peter
Sent: Wednesday, March 16, 2011 1:00 PM
To: Dean, Bill; Lew, David
Cc: Weerakkody, Sunil
Subject: FW: Update On Calvert Cliffs SGI Special Inspection

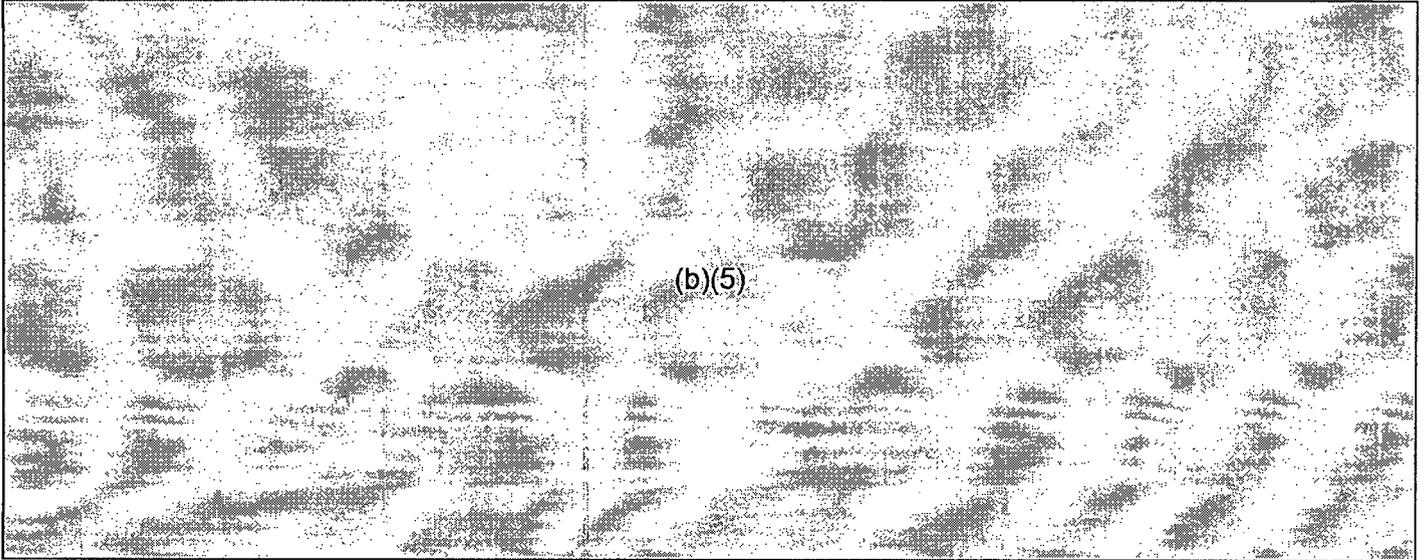
(b)(5)

From: Kennedy, Silas
Sent: Wednesday, March 16, 2011 10:29 AM
To: Wilson, Peter; Weerakkody, Sunil
Cc: Clifford, James; Roberts, Darrell; Dentel, Glenn; Perry, Neil; Richart, Paul; Wilson, Ernest; Bream, Jeffrey; Caron, Dana; Cherubini, John; Dimitriadis, Anthony; Everhart, Dave; Smith, George; Yip, Brian
Subject: Update On Calvert Cliffs SGI Special Inspection

~~OFFICIAL USE ONLY - SECURITY-RELATED INFORMATION~~

(b)(5)

AS/170



Sincerely,

Silas

Silas Kennedy
NRC/RI/PSB1
Acting Chief
610-337-5186 wk

(b)(6) cell

~~OFFICIAL USE ONLY - SECURITY-RELATED INFORMATION~~

From: Campbell, Stephen
To: Ruland, William; Check, Michael; Evans, Michele; Hifand, Patrick; Holian, Brian; Brown, Frederick
Cc: Howe, Allen; Giitter, Joseph; Boer, Bruce; Leads, Eric; Grobe, Jack; Tate, Travis; Klein, Alex; Harrison, Donnis; Mitchell, Matthew; Khanna, Meena; Wilson, George; Shoop, Undine; Imboden, Andy; Casto, Greg; Uises, Anthony; Miranda, Samuel; Epperson, Dan; WBN2HearingFile Resource
Subject: WBN2 Management Report.
Date: Thursday, March 17, 2011 7:27:34 AM
Attachments: WB2 SER Section Status - Management Report - Combined 3-15-11.xls

Division Managers:

Attached is the latest management report for completing the licensing actions for Watts Bar Unit 2. Your respective BCs have reviewed this spreadsheet and I have updated it to incorporate their comments as necessary. The notable changes that occurred since the last report (March 8, 2011) include:

- With the issuance of an SE with OI from SBPB, Section 9.2.2 went from red (late) to orange (SE OI)
- RAIs were sent from EMCB to DORL on 3/10. Draft RAI's were sent to TVA. OGC concurred on formal RAIs, however, DORL decided to withhold issuing them until the Japanese nuclear event subsides (estimate about 1 week to issue).
- Corrected comment for DLR changing the key chapter from 11 to 12 regarding offsite doses
- On 3/15, TVA delivered the necessary information for SRXB to complete boron precipitation calculations.

TVA is overdue providing information to the staff for nine sections that include Sections 15.4.1 through 15.4.7, 9.3.2 and 9.5.1 and the Environmental report (Intake Velocity).

Because TVA has been late sending in a final Fire Protection Report, responding to first set of RAIs and not providing a submission date to address OMAs, we are preparing an extension request for Section 9.5.1, "Fire Protection" that Joe Giitter needs to concur.

Please call me if you have questions.

Thanks

Stephen J. Campbell,

Branch Chief

NRR/DORL/LP-WB

U.S. Nuclear Regulatory Commission

Office - O8H1

Mail Stop - O8H4A

Washington, DC 20555

E-mail: stephen.campbell@nrc.gov | Office: (301) 415-3353 | NRC Cell: (b)(6) | Fax: (301) 415-1885



AS/176

Watta Bar 2 SER Section Status - Management Report (as of March 15, 2011)

| Section No. | Branch | Technical Reviewer | SER Chapter Description | RAFs Submitted to PM | SE Deliverable Data to PM | Comments |
|-------------|--------|--------------------|-------------------------|----------------------|---------------------------|----------|
|-------------|--------|--------------------|-------------------------|----------------------|---------------------------|----------|

(b)(5)

| Section No. | Branch | Technical Reviewer | SER Chapter Description | RAI's Submitted to PM | SE Deliverable Date to PM | Comments |
|-------------|--------|--------------------|-------------------------|-----------------------|---------------------------|----------|
|-------------|--------|--------------------|-------------------------|-----------------------|---------------------------|----------|

(b)(5)

| Section No. | Branch | Technical Reviewer | SER Chapter Description | RAFs Submitted to PM | SE Deliverable Date to PM | Comments |
|-------------|--------|--------------------|-------------------------|----------------------|---------------------------|----------|
|-------------|--------|--------------------|-------------------------|----------------------|---------------------------|----------|

(b)(5)

From: Case, Michael
To: Coffin, Stephanie
Subject: RE: Differing Views Panel Discussion
Date: Thursday, March 17, 2011 9:35:00 AM

Thanks Steph. We missed you at our last meeting!

From: Coffin, Stephanie
Sent: Thursday, March 17, 2011 6:34 AM
To: Ott, William; Pedersen, Renee
Cc: Case, Michael; Sircar, Madhumita; Kardaras, Tom
Subject: RE: Differing Views Panel Discussion

(b)(5)

From: Ott, William
Sent: Wednesday, March 16, 2011 11:58 AM
To: Pedersen, Renee
Cc: Case, Michael; Sircar, Madhumita; Kardaras, Tom; Coffin, Stephanie
Subject: RE: Differing Views Panel Discussion

(b)(5)

AS/172

(b)(5)

Bill Ott

From: Pedersen, Renee
Sent: Wednesday, February 09, 2011 2:55 PM
To: Ott, William; Case, Michael; Coe, Doug
Cc: Thompson, Catherine
Subject: Differing Views Panel Discussion

Hi guys,

I wanted to touch base with you and get some feedback on the panel discussion last week.

On a scale of 1-5 (5 being outstanding), how did it go?

On a scale of 1-5 (1 being I'd never do it again—5 being it's a great process), how did the members characterize their experiences?

Did you have enough time—especially for questions?

What kind of questions did you get?

If another organization were conducting a similar panel, what lessons learned would you share?

Renée

From: Barnes, Valerie
To: Coe, Doug; Coyne, Kevin
Subject: FW: Draft NSIR User Need w/ RES comments
Date: Thursday, March 17, 2011 9:40:10 AM

FYI.

From: Sapountzis, Alexander
Sent: Thursday, March 17, 2011 6:49 AM
To: Harris, Paul; Ki, DaBin; Barnes, Valerie; Peters, Sean
Cc: Coughlin, Patrick; Caldwell, Robert; Wastler, Sandra; Erlanger, Craig
Subject: RE: Draft NSIR User Need w/ RES comments

Morning Everyone:

The task Paul is referring to is obtaining RES assistance for developing the regulatory basis/rulemaking for FFD (drug & alcohol testing and work hour controls) requirements for officers at material licensees. COMSECY-04-0037 discusses pursuing rulemaking vice orders for material licensees.

(b)(5)

(b)(5)

We hope RES will support us in helping to develop the regulatory basis for this effort and eventually preparing any proposed/final rule language for FFD for security officers at material licensees.

Thank You,

Alex

From: Harris, Paul
Sent: Wednesday, March 16, 2011 4:47 PM
To: Ki, DaBin; Barnes, Valerie; Peters, Sean
Cc: Coughlin, Patrick; Sapountzis, Alexander; Caldwell, Robert; Wastler, Sandra; Erlanger, Craig
Subject: RE: Draft NSIR User Need w/ RES comments

Thank you for the RES comments on the proposed NSIR-RES User Need. My brief skim indicates

AS/173

minor changes with some follow up questions and comments. Thank you for the quick turn-around and technical support.

(b)(5)

Once the NSIR material security specialists are finished with their write up, I will forward on to you.

Thanks again.

Paul

Paul Harris, Senior Program Manager
10 CFR Part 26, Fitness for Duty (Drug & Alcohol Testing)
Office of Nuclear Security and Incident Response
U.S. Nuclear Regulatory Commission
(w) 301-415-1169
(c) (b)(6)

From: Ki, DaBin
Sent: Wednesday, March 16, 2011 4:26 PM
To: Harris, Paul
Cc: Barnes, Valerie; Peters, Sean
Subject: Draft NSIR User Need w/ RES comments
Importance: High

Hi Paul,

Attached is the user need with Val's comments and Sean's blessing.

Thanks,
DaBin

From: Xing, Jing
To: Coyne, Kevin
Subject: RE: ACTION: Quick Turnaround Budget Question
Date: Thursday, March 17, 2011 10:07:48 AM

Kevin,

This user need request has a very long title "REQUESTS TO UPDATE HUMAN FACTORS REVIEW GUIDELINES AND DEVELOP SUPPLEMENTARY GUIDANCE AND TECHNICAL BASIS DOCUMENTS FOR THE REVIEW OF NEW AND ADVANCED CONTROL ROOM DESIGNS (July 02, 2010)." we have designated it as NRO-2010-005. This user need request includes 8 tasks and HFRB currently has 7 projects to support it. The "Measures of Workload, Situational awareness, and Teamwork" is one of requested task. I attached the user need response cover letter below FYI.

Jing

MEMORANDUM TO: Michael R Johnson, Director
Office of New Reactors
FROM: Brian W. Sheron, Director
Office of Nuclear Regulatory Research

RESPONSE TO USER-NEED REQUESTS TO UPDATE HUMAN FACTORS REVIEW GUIDELINES AND DEVELOP SUPPLEMENTARY GUIDANCE AND TECHNICAL BASIS DOCUMENTS FOR THE REVIEW OF NEW AND ADVANCED CONTROL ROOM DESIGNS (July 02, 2010)

The Office of Nuclear Regulatory Research (RES) is pleased to accept your user need requests, dated July 2, 2010, which is available in the Agency wide Documents Access and Management System (ADAMS), under Accession No. ML101400238, and which we have designated as NRO-2010-005 for tracking purposes. Specifically, the requests asked RES to update human factors engineering (HFE) review guidelines and to develop supplementary guidance and technical basis documents that support the staff's HFE reviews, particularly in the area of emerging technologies in control room designs.

The User Need requests NRO-2010-005, collectively, include eight specific need requests for products that would update and revise existing HFE review guidance and provide supplementary technical basis and guidance documents. The objective is to ensure that the staff's review guidance is maintained current such that it reflects the state-of-the art in HFE principles and methods and supports efficient and technically sound HFE reviews. RES agrees to proceed with these proposed requests with specified deliverables and due dates.

Overall, the Human Factors and Reliability Branch (HFRB), Division of Risk Analysis, RES, will proceed with the requests through its research program of Human Factors in Advanced Control Room Designs. The goal of the program is to update and enhance the NRC's HFE review guidance by providing technical bases, guidelines, methods, and acceptance criteria to a number of topics

AS1173

relevant to advanced control room designs. The program is illustrated in the following diagram:

From: Coyne, Kevin
Sent: Thursday, March 17, 2011 10:02 AM
To: Xing, Jing
Subject: Re: ACTION: Quick Turnaround Budget Question

Jing-

What user need does this support?

Sent from an NRC Blackberry
Kevin Coyne

(b)(6)

From: Xing, Jing
To: Coyne, Kevin; Peters, Sean
Sent: Thu Mar 17 09:55:18 2011
Subject: RE: ACTION: Quick Turnaround Budget Question

Kevin,

Here is the answer to your questions. Please feel free to modify it to the proper language before you send it out. Thanks.

will we be able to finish the work (or bring it to a reasonable conclusion) in FY2012?

(b)(5)

Thanks Kevin.

Jing

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 5:55 PM
To: Xing, Jing; Peters, Sean
Cc: Scott, Michael; Zaki, Tarek
Subject: ACTION: Quick Turnaround Budget Question
Importance: High

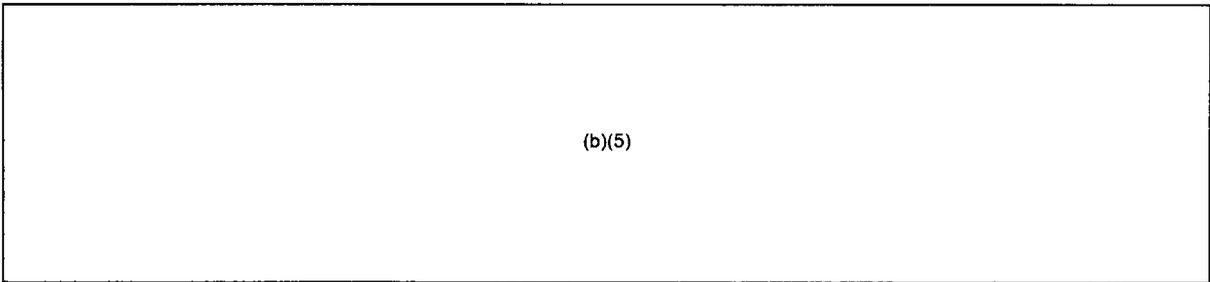
Jing –

(b)(5)

As all budget questions – very quick turnaround....

From: Holmberg, Mel
To: Wallace, Jay; Adams, James; Alley, David; Anchondo, Isaac; Baquera, Mica; Bilik, Tom; Bloodgood, Michael; Bozga, John; Brand, Javier; Burket, Elise; Burns, Thomas; Carrion, Robert; Case, Michael; Chaudhary, Suresh; Chou, Rich; Clayton, Kelly; Collins, Brendan; Collins, Jay; Conte, Richard; Coursey, Michael; Csontos, Aladar; Drake, James; Dykert, Jason; Failla, David; Farnholtz, Thomas; Fletcher, Cecil; Franke, Mark; Gavrilas, Mirela; Gavula, James; Gray, Harold; Hardies, Robert; Hills, David; Hiser, Allen; Honcharik, John; Jones, Donald; Jones, William; Jose, Benny; Karwoski, Kenneth; Kaufman, Paul; Kerr, Matthew; Kopriva, Ron; Lake, Louis; Lupold, Timothy; Makor, Shiattin; Meghani, Vijay; Michel, Eric; Mitchell, Matthew; Modes, Michael; Neurauter, James; Norato, Michael; Norris, Wallace; Nove, Carol (b)(6) Obodoako, Aloysius; OHara, Timothy; Ray, Neil; Reichelt, Eric; Reinert, Dustin; Rezai, Ali; Rivera-Ortiz, Joel; Rudland, David; Sanchez Santiago, Elba; Sengupta, Abhijit; Shaikh, Atif; Sifre, Wayne; Stevens, Gary; Taylor, Robert; Terao, David; Werner, Greg; Widrevitz, Dan; Williams, Robert; Young, Matt
Cc: Miller, Barry
Subject: RE: MECC - Call for Topics
Date: Thursday, March 17, 2011 11:47:55 AM
Attachments: Draft Response TIA 2011-005_ML110590634.docx

FYI, As requested, I have attached a copy of the NRR draft TIA response clarifying the applicable construction code requirements for application of mechanical stress improvement (MSIP) at DC Cook Unit 1. Note that this should be considered predecisional information until this document is entered into ADAMs and released as a public record. I expect that action will occur in the next couple of weeks or so and I will try to send a followup E-mail when it occurs.



Mel

From: Wallace, Jay
Sent: Friday, March 11, 2011 7:21 AM
To: Adams, James; Alley, David; Anchondo, Isaac; Baquera, Mica; Bilik, Tom; Bloodgood, Michael; Bozga, John; Brand, Javier; Burket, Elise; Burns, Thomas; Carrion, Robert; Case, Michael; Chaudhary, Suresh; Chou, Rich; Clayton, Kelly; Collins, Brendan; Collins, Jay; Conte, Richard; Coursey, Michael; Csontos, Aladar; Drake, James; Dykert, Jason; Failla, David; Farnholtz, Thomas; Fletcher, Cecil; Franke, Mark; Gavrilas, Mirela; Gavula, James; Gray, Harold; Hardies, Robert; Hills, David; Hiser, Allen; Holmberg, Mel; Honcharik, John; Jones, Donald; Jones, William; Jose, Benny; Karwoski, Kenneth; Kaufman, Paul; Kerr, Matthew; Kopriva, Ron; Lake, Louis; Lupold, Timothy; Makor, Shiattin; Meghani, Vijay; Michel, Eric; Mitchell, Matthew; Modes, Michael; Neurauter, James; Norato, Michael; Norris, Wallace; Nove, Carol; (b)(6) Obodoako, Aloysius; OHara, Timothy; Ray, Neil; Reichelt, Eric; Reinert, Dustin; Rezai, Ali; Rivera-Ortiz, Joel; Rudland, David; Sanchez Santiago, Elba; Sengupta, Abhijit; Shaikh, Atif; Sifre, Wayne; Stevens, Gary; Taylor, Robert; Terao, David; Wallace, Jay; Werner, Greg; Widrevitz, Dan; Williams, Robert; Young, Matt
Subject: MECC - Call for Topics

MECC Participants,

Please submit any topics that your organization wishes to discuss during the upcoming **Wednesday, 3/16/2011 MEC Call**. Send the topics to me by **COB Monday, 3/14/2011**. For each topic, please provide a one or two sentence description, and designate a "lead" from your

AS/174

organization who will discuss the topic.

I will distribute the agenda on Monday, 3/14/2011.

Thank you,

Jay Wallace

March 16, 2011

MEMORANDUM TO: Kenneth G. O'Brien, Deputy Director
Division of Reactor Safety
Region III

FROM: Thomas B. Blount, Deputy Director /RA/
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

SUBJECT: DRAFT RESPONSE TO TASK INTERFACE AGREEMENT (TIA)
2011-005, D. C. COOK NUCLEAR POWER PLANT REACTOR
COOLANT SYSTEM PIPING CODE COMPLIANCE FOLLOWING
PLASTIC DEFORMATION - MECHANICAL STRESS IMPROVEMENT

By letter dated January 20, 2011 (Agencywide Documents Access and Management System Accession No. ML110200566), the U.S. Nuclear Regulatory Commission Region III Office requested the Office of Nuclear Reactor Regulation (NRR) provide answers to the following TIA questions regarding compliance with the reactor coolant system (RCS) Construction Code (CC) after application of a mechanical stress improvement process (MSIP™) which plastically deformed portions of the RCS piping.

1. Does the USAS B31.1 1967 Edition Code Article 129.1 requirement, "Pipe may be bent to any radius, which will result in a bend surface free of cracks, as determined by a method of inspection specified in the design, and substantially free of buckles" apply to the Donald C. Cook Unit 1 RCS piping for application of MSIP™ (e.g., is MSIP™ a bending process)?
2. Does the USAS B31.1 1967 Edition Code Article 129.2 requirement "Pipe may be formed (swedging, lapping, or upsetting of pipe ends, extrusion of necks, etc.), by any suitable hot or cold working method, provided such processes result in formed surfaces, which are uniform and free of cracks or other defects, as determined by a method of inspection specified in the design, and substantially free of buckles" apply to the Donald C. Cook Unit 1 RCS piping for application of MSIP™ (e.g., is MSIP™ a forming process)?
3. Does the USAS B31.1 1967 Edition Code Article 129.3 requirement "Cold Bending and forming of carbon steel having a wall thickness of ¾ inch and heavier, and all ferritic alloy pipe in nominal pipe sizes of 4 inches and larger or ½ inch wall thickness or heavier, shall require a stress relieving treatment" apply to the Donald C. Cook Unit 1 RCS piping for application of MSIP™?

The NRR staff's assessment is documented in the enclosed evaluation. Please provide any comments on this draft response within 10 working days.

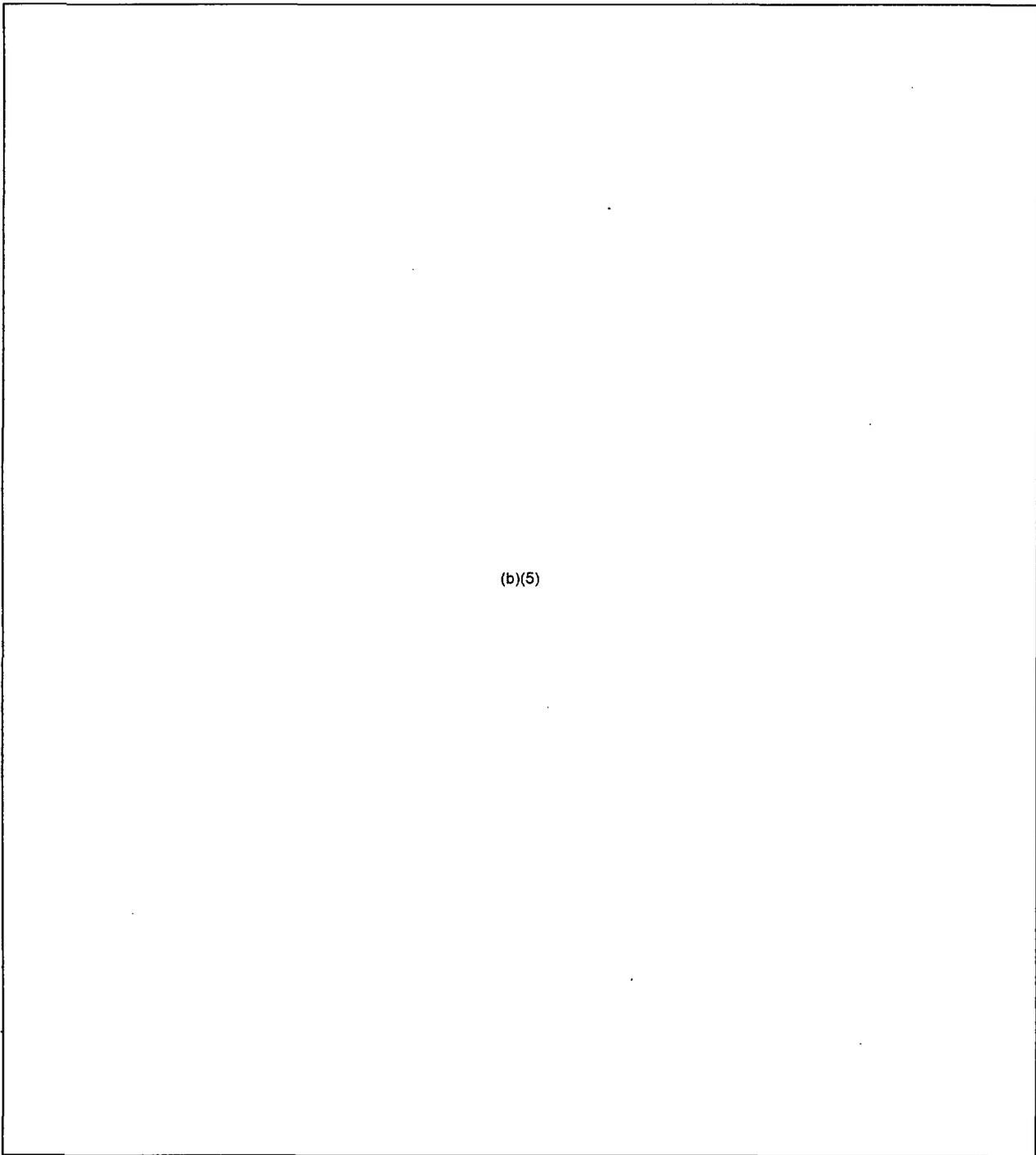
Enclosure:
As stated

CONTACT: Barry W. Miller, DPR/PLPB
(301) 415-4117

(b)(5)

(b)(5)

(b)(5)



(b)(5)

(b)(5)

From: Coyne, Kevin
To: Coffin, Stephanie; Reckley, William
Cc: Scott, Michael; Zaki, Tarek; Peters, Sean; Xing, Jing; Coe, Doug; Correia, Richard
Subject: Follow-up Question from NROAdvanced Reactor FY12/13 Budget Call (RES/DRA)
Date: Thursday, March 17, 2011 12:01:00 PM

Stephanie, Bill –

(b)(5)

Hope this helps – please let me know if you need any additional information –

Kevin

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

(b)(6) (cell)

AS/175

From: [Hunter, Christopher](#)
To: [Demoss, Gary](#); [Coyle, Kevin](#)
Subject: Robinson ASP Comments
Date: Thursday, March 17, 2011 12:39:41 PM
Attachments: [Robinson ASP Comments.docx](#)

When do you want to discussed the attached? Do you have time tomorrow afternoon or do we want to set something up for early next week?

Thanks,
Chris

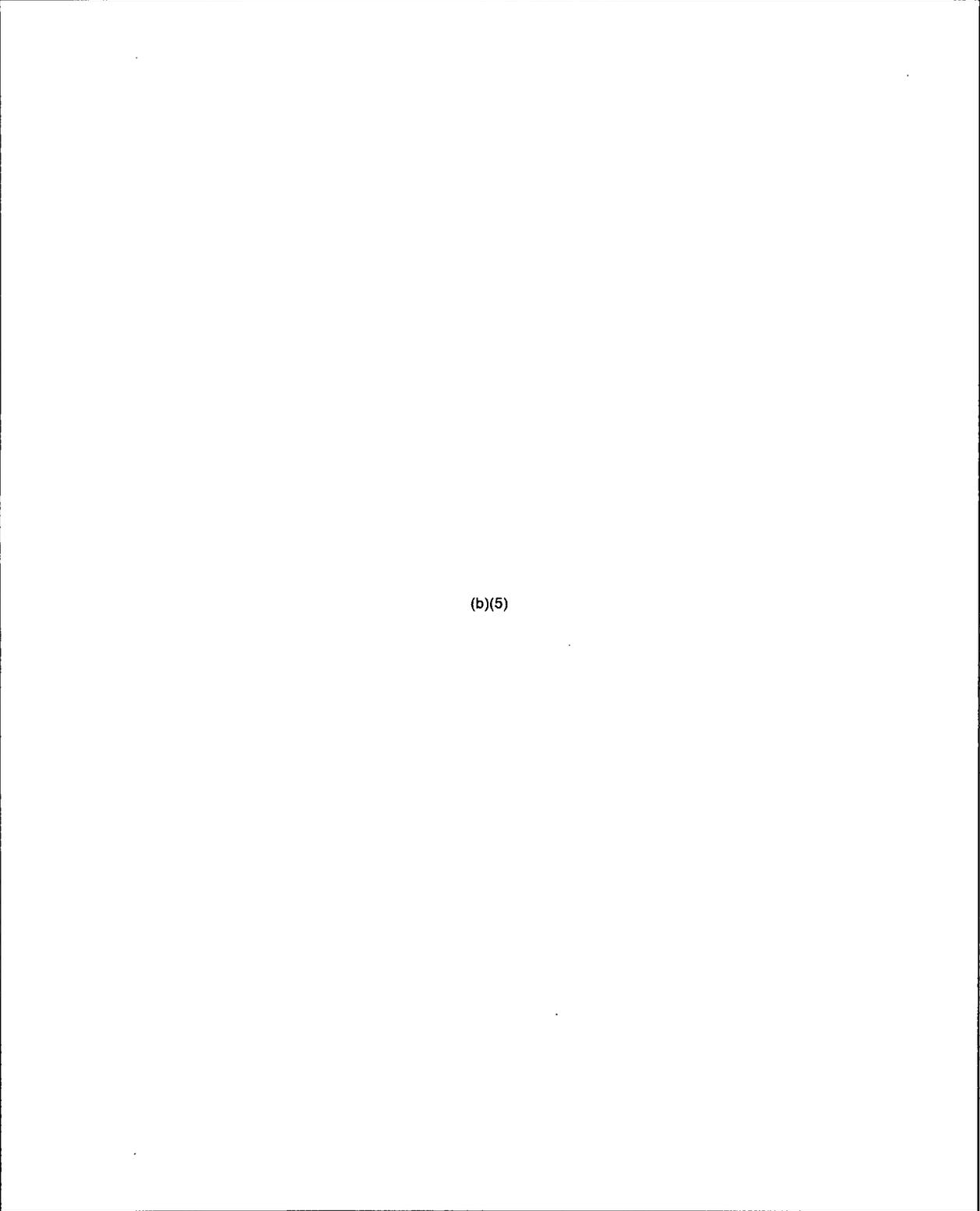
AS/176

Robinson ASP Comments and Resolutions

(b)(5)

(b)(5)

(b)(5)

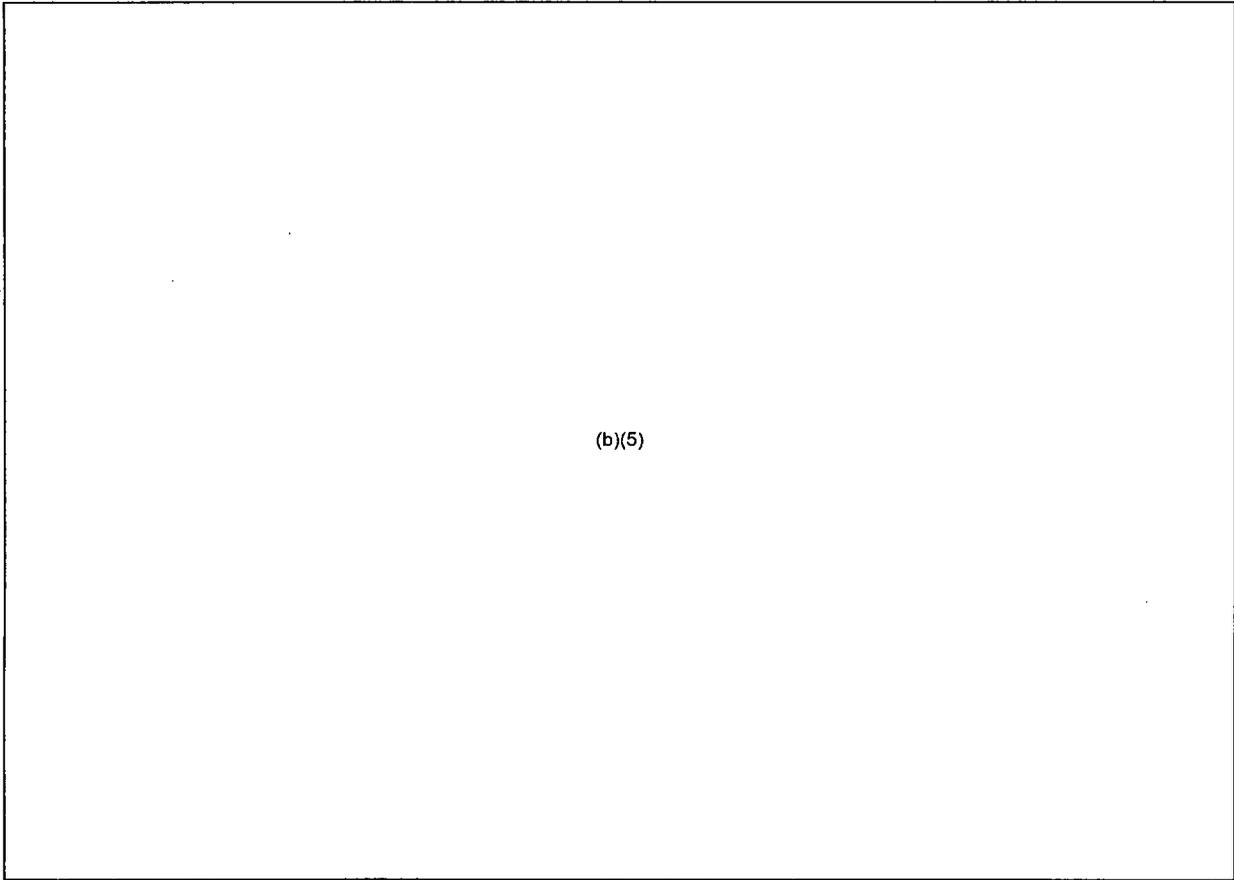


(b)(5)

(b)(5)

(b)(5)

(b)(5)

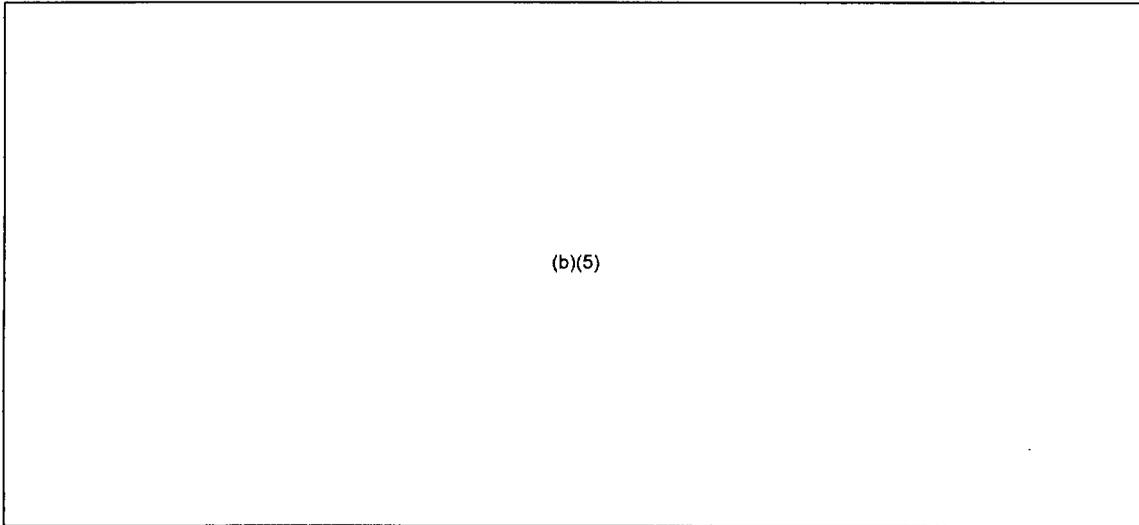


(b)(5)

(b)(5)

From: Daniel, Richard
To: Narick, Marianne
Cc: McLellan, Thomas; Collins, Jay; Nautock, Don; Circle, Jeff; Parillo, John; Lain, Paul; Iqbal, Naeem; Frumkin, Daniel; Cusumano, Victor; Heida, Bruce; Cheok, Michael; Rodriguez, Veronica; Lee, Samson; Harrison, Donnie; Lupold, Timothy; Mitchell, Matthew; Johnson, Deborah
Subject: RE: DRA & DCI APRIL CONTRACTUAL FUNDING DEFICIENCIES FOR 3RD QUARTER
Date: Thursday, March 17, 2011 12:48:32 PM
Attachments: 3rd_qtr_funding_shortfall_for_DRA_AND_DCI.xlsx

Folks,



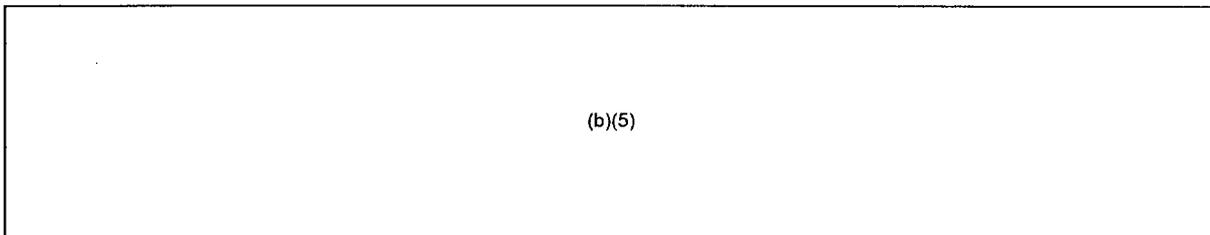
Anyone with questions can reach me at x6319. Sorry for the error.

Rick Daniel
TAPM

From: Daniel, Richard
Sent: Wednesday, March 16, 2011 6:55 AM
To: Narick, Marianne
Cc: McLellan, Thomas; Collins, Jay; Nautock, Don; Circle, Jeff; Parillo, John; Lain, Paul; Iqbal, Naeem; Frumkin, Daniel; Cusumano, Victor; Heida, Bruce; Cheok, Michael; Rodriguez, Veronica; Lee, Samson; Harrison, Donnie; Lupold, Timothy; Mitchell, Matthew
Subject: DRA & DCI APRIL CONTRACTUAL FUNDING DEFICIENCIES FOR 3RD QUARTER
Importance: High

Marianne:

In answer to your questions:



AS/177

(b)(5)

Rick Daniel
NRR/PMDA/FMB/CMT
(301) 415-6319

(b)(5)

From: [Coyne, Kevin](#)
To: [Kuritzky, Alan](#)
Subject: FW: ACTION Operating Reactors; NRR requests a response by COB
Date: Thursday, March 17, 2011 1:32:00 PM
Attachments: [Projects greater than 200k for Op Rx.xlsx](#)
[Resources for NRR-Low Priority User Need Work.xlsx](#)
Importance: High

Alan --

Sorry to ask this, but you can you figure out what is being requested by this email -- I haven't had time to read it and am dealing with GI-199 fallout right now. Don't worry about the action itself, if you could just let me know what needs done, I'd appreciate it...

Thanks!

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 10:52 AM
To: Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stout, Kathleen; Grancorvitz, Teresa; Valentin, Andrea
Subject: ACTION Operating Reactors; NRR requests a response by COB
Importance: High

Good morning,

We are trying to get greater clarity from NRR on this task, but we wanted to tell you what we know right now.

(b)(5)

AS/178

(b)(5)

We know this is a lot to absorb and create, particularly the FTE detail, but NRR is requesting we re-do the Scenario A listing by COB today.

Let us know if you have additional questions.

Thanks,

Ruth

Ruth Spencer, NRC/RES

Mailstop C6-D20M, Washington, DC 20555-0001

Phone 301 251 7921 FAX 301 251 7426

eMail: Ruth.Spencer@NRC.GOV

Office Location: C06-D19

| JCN | User Need Y/N | User Need Field from ROMA 1/2011 | Estimated Project End Date (from ROMA) | Area of Interest | Div | Branch |
|-----|------------------|-------------------------------------|---|---------------------|-----|--------|
|-----|------------------|-------------------------------------|---|---------------------|-----|--------|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(5) | | | | | | |
|--------|--|--|--|--|--|--|

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

| Title | Business Line | Product Line | Product | FY 11 Restack |
|-------|---------------|--------------|---------|---------------|
|-------|---------------|--------------|---------|---------------|

| | | | | |
|--------|--|--|--|--|
| (b)(5) | | | | |
|--------|--|--|--|--|

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

| FY 12 Pres. Budg | FY 12 Restack | FY 12 Shortfall Requests | FY 13 Request | FY 12 Restack Lead Ofc | FY 13 Request Lead Ofc | Scenario A (- 5%) |
|---------------------|---------------|-----------------------------|---------------|---------------------------|---------------------------|----------------------|
|---------------------|---------------|-----------------------------|---------------|---------------------------|---------------------------|----------------------|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(5) | | | | | | |
|--------|--|--|--|--|--|--|

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

| Scenario B (+3%) | Scen A for BFS | Scen B for BFS | Comments from Budget Formulation or Execution |
|---------------------|-------------------|-------------------|--|
|---------------------|-------------------|-------------------|--|

| | | | |
|--------|--|--|--|
| (b)(5) | | | |
|--------|--|--|--|

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

Division Comments
(Please note any changes needed to locked cells –
Div, Branch, Title, JCN)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

Scenario A & B

Explanation of work to be cut/added, including impact statement (impact on regulatory work)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

| User Need/ Work Request ID | Title | JCN(s) | Proj End Date (from ROMA) | Division | Branch | PM (from ROMA) | Budget Product | FY 2013 (\$K) | FY 2013 FTE | Total (\$K) | Scen A? | Comment |
|-------------------------------|-------|--------|------------------------------|----------|--------|-------------------|-------------------|------------------|----------------|----------------|---------|---------|
|-------------------------------|-------|--------|------------------------------|----------|--------|-------------------|-------------------|------------------|----------------|----------------|---------|---------|

(b)(5)

From: [Gonzalez, Michelle](#)
To: [Kuritzky, Alan](#)
Cc: [Covne, Kevin](#)
Subject: FY11 funding
Date: Thursday, March 17, 2011 2:13:21 PM

Alan,

(b)(5)

MICHELLE M. GONZÁLEZ
Reliability and Risk Engineer
Office of Nuclear Regulatory Research
US Nuclear Regulatory Commission
301-251-7591

AS/179

From: (b)(6)
To: Dean, Vivian
Cc: Coyne, Kevin
Subject: RE: feedback on graduate fellowship
Date: Thursday, March 17, 2011 2:13:34 PM

Hi Vivian,

I don't think I have any HR-specific questions. I just wanted to discuss the strengths/weakness of my application in order to gauge whether it would be worth re-applying in the future.

(b)(6)

From: Dean, Vivian
Sent: Thursday, March 17, 2011 2:11 PM
To: (b)(6)
Subject: RE: feedback on graduate fellowship

Hi Joe,

I'll arrange a meeting with the three of us next week for feedback on the GFP. Any specific HR questions you have so that I can be prepared.

Thanks.

Vivian Dean
H.R. Specialist

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 5:51 PM
To: Dean, Vivian
Cc: (b)(6)
Subject: feedback on graduate fellowship

Vivian –

(b)(6) has requested some feedback on the graduate fellow selection process – can I just set up a meeting with him, or does this need to be handled by HR?

Kevin

AS/180

From: [Sancaktar, Selim](#)
To: [Coyne, Kevin](#)
Subject: Prepare a report documenting "new" SG tube flaw data and distributions?

When: Thursday, March 17, 2011 2:00 PM-2:30 PM (GMT-05:00) Eastern Time (US & Canada).
Where: Kevin's office

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

~~*~*~*~*~*~*~*~*

(b)(6)

Here is my email to Charlie on the subject:

From: Sancaktar, Selim
Sent: Monday, March 14, 2011 11:24 AM
To: Harris, Charles
Cc: Sancaktar, Selim; Coyne, Kevin
Subject: "new SG flaw data to be supplied to ISL as input for the C-SGTR probability calculations

Hi Charlie,

As you have been probing during the last week, the following item needs to be worked out and defined.

(b)(6)

AS/181

(b)(6)

What do you think?

Regards, Selim

From: Beasley, Benjamin
To: Coyne, Kevin
Subject: RE: RES support for commission meeting on Monday 3/21.
Date: Thursday, March 17, 2011 2:17:57 PM

Marty would be best and I have not talked with him about it. John and I are both available.

BB

From: Coyne, Kevin
Sent: Thursday, March 17, 2011 2:10 PM
To: Beasley, Benjamin
Subject: RE: RES support for commission meeting on Monday 3/21.

Ben –

Are you, John, and/or Marty able to support the Commission meeting?

From: Beasley, Benjamin
Sent: Thursday, March 17, 2011 11:14 AM
To: Wilson, George
Cc: Kauffman, John; Killian, Lauren; Manoly, Kamal; Coyne, Kevin; Stutzke, Martin
Subject: FW: RES support for commission meeting on Monday 3/21.

George,

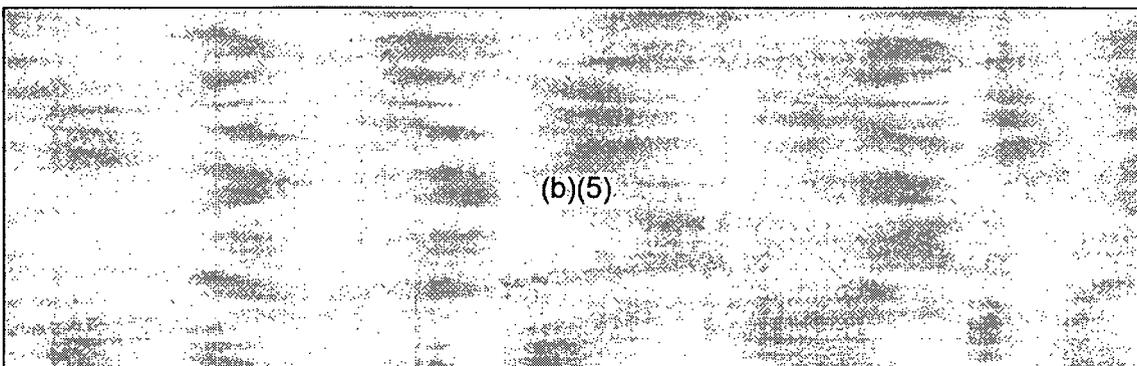
As I mentioned on the phone call, we took the liberty of drafting a key message for the GI-199 Comm Plan. It is provided in John's message below.

I will talk to Kevin Coyne (acting director) and Marty about support for the Commission briefing. Let us know if you need anything else for the briefing or the Comm Plan.

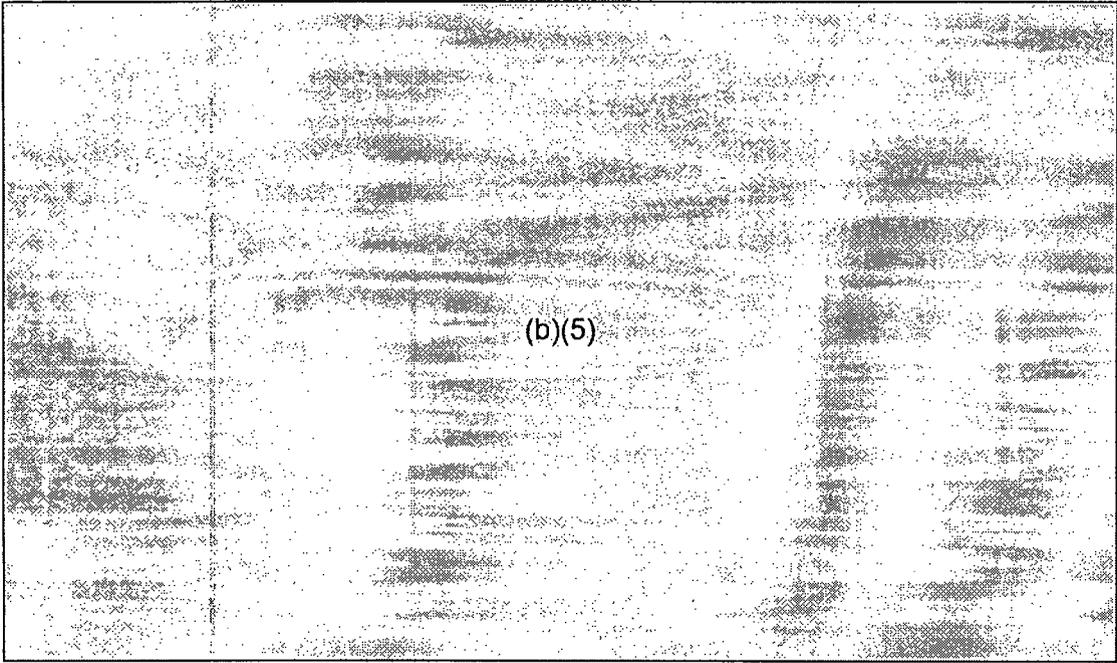
Ben

From: Kauffman, John
Sent: Thursday, March 17, 2011 10:15 AM
To: Beasley, Benjamin
Subject: RE: RES support for commission meeting on Monday 3/21.

Ben,



AS/182



(b)(5)

From: Check, Michael
To: Weerakkody, Sunil
Subject: FW: NFPA 805 inspections
Date: Thursday, March 17, 2011 3:05:00 PM

Sunil

(b)(5)

I will call you later today (if you don't mind).

Mike

From: Frumkin, Daniel *DF*
Sent: Thursday, March 17, 2011 10:02 AM
To: Check, Michael; Lee, Samson
Cc: Klein, Alex; Gulla, Gerald
Subject: FW: NFPA 805 inspections

Mike,

I spoke to Gerry Gulla of OE and he sent the email below (I added the underlines).

(b)(5)

But take a look and let me know what you think,

Dan

From: Gulla, Gerald *OE*
Sent: Thursday, March 17, 2011 9:56 AM
To: Frumkin, Daniel
Cc: Klein, Alex
Subject: NFPA 805 inspections

Dan,

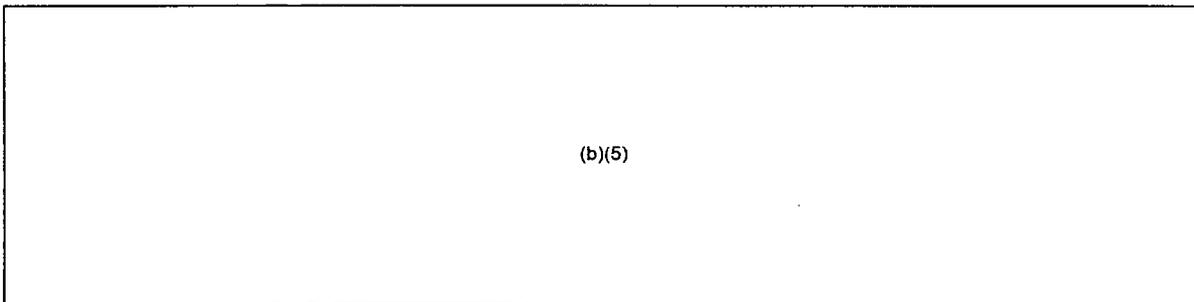
(b)(5)

AS/183

Thanks
Gerry

From: Coyne, Kevin
To: Cheok, Michael
Cc: Hudson, Daniel; Spencer, Ruth; Coe, Doug; Correia, Richard; Demoss, Gary; Kuritzky, Alan; Beasley, Benjamin; Peters, Sean; Xing, Jing
Subject: RASP User Need (UNR 2010-017)/ Additional FY2013 Scenario A Cuts for Operating Reactors
Date: Thursday, March 17, 2011 3:14:00 PM
Attachments: UNR NRR-2010-017 Incoming ML1018102271.pdf

Mike –



Kevin

AS/184

July 29, 2010

MEMORANDUM TO: Brian W. Sheron, Director
Office of Nuclear Regulatory Research

FROM: Eric J. Leeds, Director **/RA/ Jack Grobe for**
Office of Nuclear Reactor Regulation

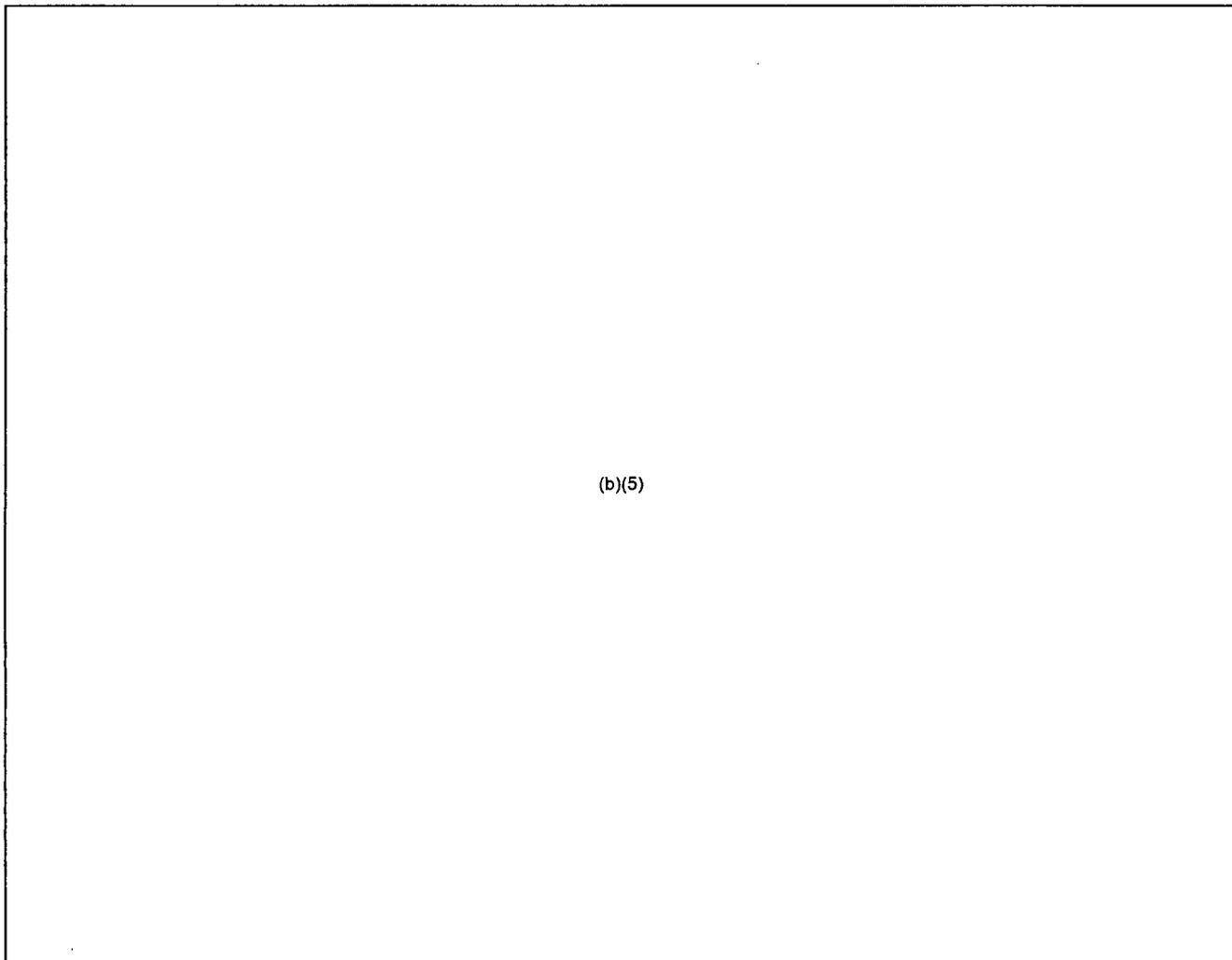
SUBJECT: USER NEED REQUEST FOR SUPPORT IN THE DEVELOPMENT
AND ENHANCEMENTS OF NRC RISK ANALYSIS TOOLS

(b)(5)

CONTACT: See-Meng Wong, NRR/DRA
(301) 415-1125

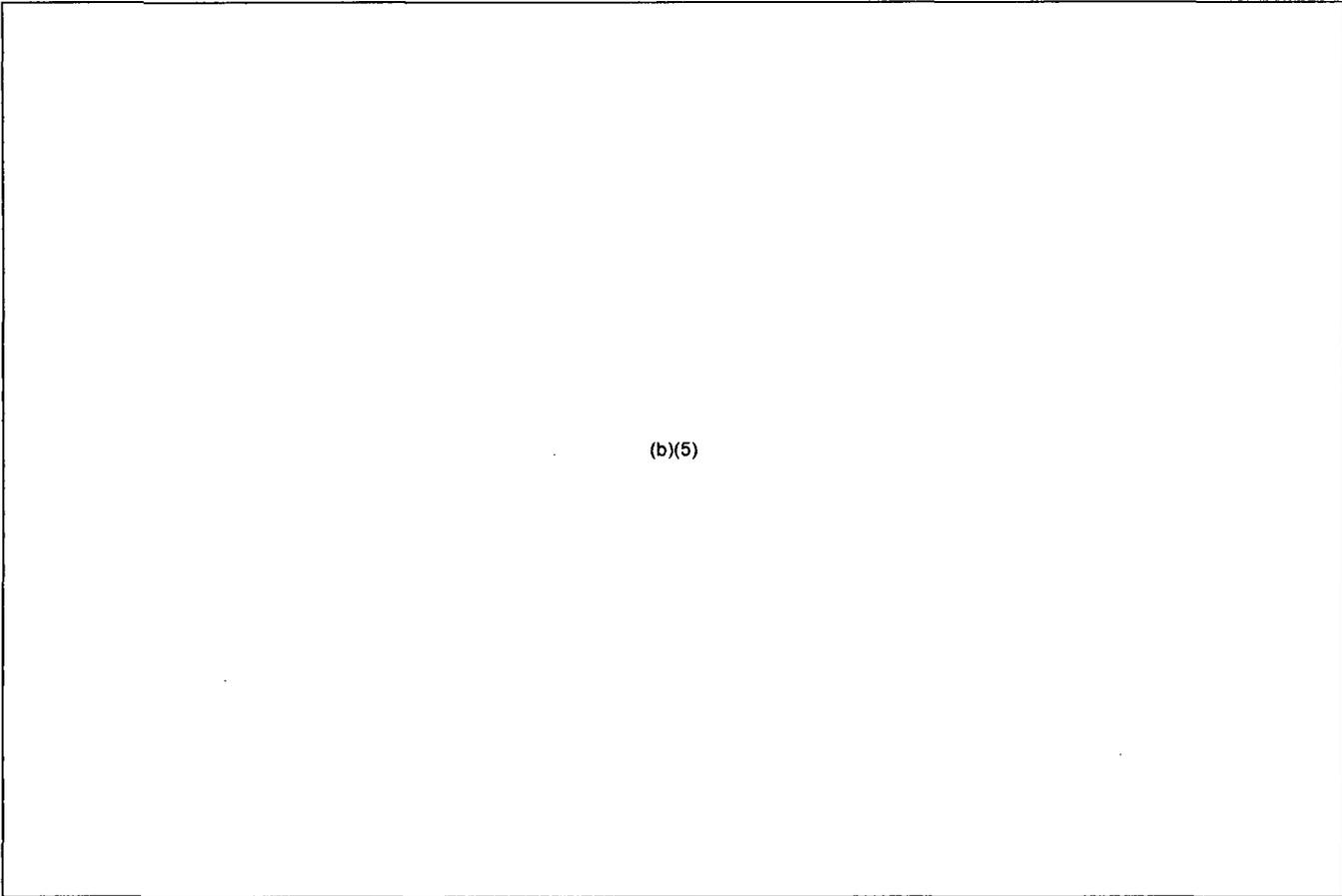
B. Sheron

-2-



(b)(5)

Enclosures:
As stated



(b)(5)

Enclosures:

As stated

REFERENCES: Program Plan for NRC Risk Tool Enhancement Program, Revision 0, February 2010 (ADAMS No. ML101580070).

Memorandum from Eric J. Leeds to Brian W. Sheron, "User Need Request for Support in the Development and Enhancements of Analytical Tools for Staff Risk Applications (NRR-2008-007)," September 18, 2008 (ADAMS No. ML082210508).

Memorandum from J.E. Dyer to A.C. Thadani, "User Need Request for Support in the Development of Standard Procedures and Methods for Risk Assessment of Inspection Findings and Reactor Incidents (NRR-2004-005)," February 17, 2004 (ADAMS No. ML033390074).

DISTRIBUTION:

| | | | | | | |
|-----------|------------|------------|--------------|-----------|------------|-----------|
| RidsResOd | RidsResDra | RidsNrrDra | RidsNrrDir | KKennedy | GMacDonald | |
| CLui | DCoe | DRoberts | DLew | JHanna | GReplgle | |
| ABoland | SWest | RCaniano | DChamberlain | RBernhard | PBonnett | |
| WSchmidt | CCahill | WCook | WRogers | MRunyan | HCruz | APOB/ R/F |
| LKozak | DPassehl | NValos | DLoveless | LWert | | |

ADAMS Accession#: ML101810227

NRR-106

| | | | | |
|--------|------------|------------------------|---------------------|------------|
| OFFICE | NRR:DRA | NRR:DPR | NRR:DRA | NRR:DRA |
| NAME | SWong | HCruz (SPhilpott for) | LJames | SLee |
| DATE | 06/30/2010 | 07/13/2010 | 07/07/2010 | 07/16/2010 |
| OFFICE | NRR:DIRS | NRR:DRA | NRR | |
| NAME | MCheck | MCunningham (SLee for) | ELeeds (JGrobe for) | |
| DATE | 07/15/2010 | 07/16/2010 | 07/ 29 /2010 | |

**OVERVIEW OF
USER NEED REQUEST
FOR THE DEVELOPMENT AND ENHANCEMENTS
OF NRC RISK ANALYSIS TOOLS**

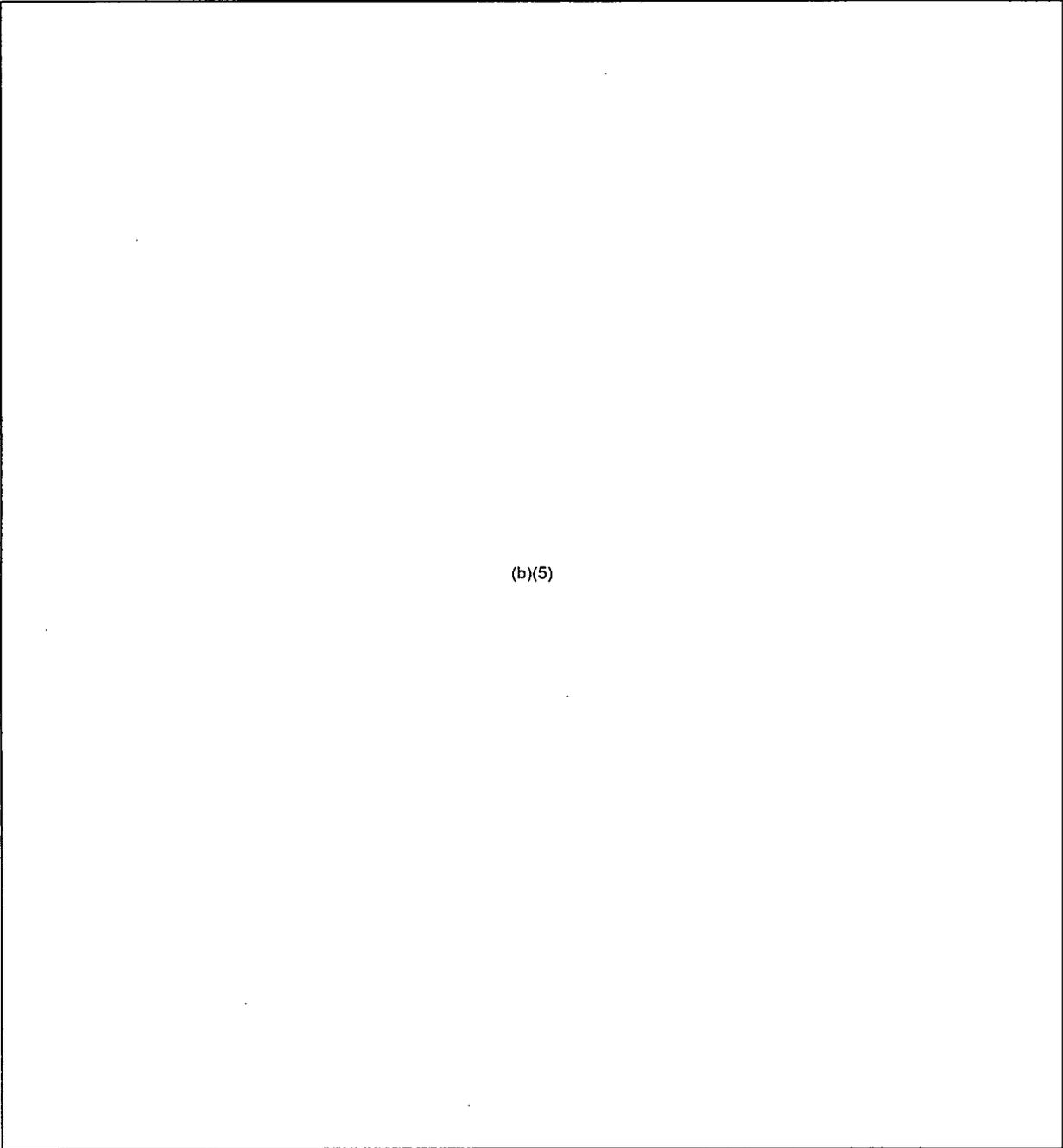
(b)(5)

(b)(5)

(b)(5)

**User Need for the Development and Enhancements
of NRC Risk Analysis Tools ---
Requested Nuclear Regulatory Research Tasks**

Statement of Work



(b)(5)

Cross-Walk Information

(b)(5)

Attachment NRC_2.joboptions (13738 Bytes) cannot be converted to PDF format.

From: [Marksberry, Don](#)
To: [Coyne, Kevin](#); [Demoss, Gary](#); [Beasley, Benjamin](#); [Kuritzky, Alan](#)
Subject: NRR-2010-017 Status and Leads (11-30-2010)b.xlsx
Date: Thursday, March 17, 2011 3:19:54 PM
Attachments: [NRR-2010-017 Status and Leads \(11-30-2010\)b.xlsx](#)

AS/185

User Need NRR-2010-017 - NRR-RES Leads, Status, and Schedule

(b)(5)

(b)(5)

(b)(5)

(b)(5)

(b)(5)

From: Ashley, MaryAnn
To: Boyer, Bruce; Cutler, Iris; Frahm, Ronald; Franovich, Rani; Brown, Frederick; Garmon-Candelaria, David; Giantelli, Joseph; Grobs, Jack; Klett, Audrey; Lee, Samson; Lian, Jocelyn; Nouven, Ouyvh; Roche, Kevin; Thomas, Eric; Kobetz, Timothy; Vaughn, Stephen; Wertz, Trent; Westreich, Barry
Subject: Enforcement Summary for the Week of March 14th
Date: Thursday, March 17, 2011 3:22:33 PM
Attachments: 03142011.pdf

For your information

Mary Ann Ashley

NRR Enforcement Coordinator

O 7 C 01

Office: 301-415-1073

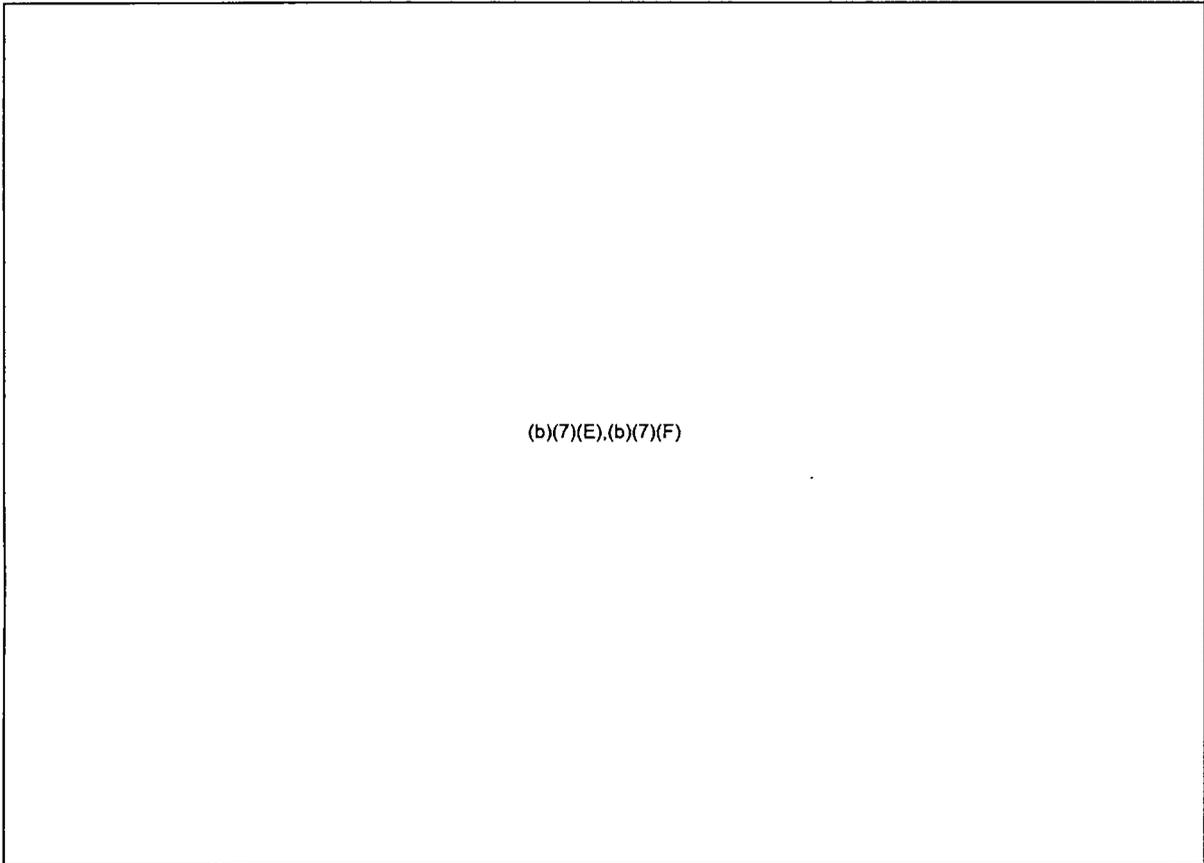
Blackberry (b)(6)

MaryAnn.Ashley@nrc.gov

AS/186

OFFICIAL USE ONLY – MAY CONTAIN SECURITY RELATED INFORMATION

Enforcement Summary for the Week of March 14, 2011



Contact: Mary Ann Ashley, NRR Enforcement Coordinator, 301-415-1073, O-7-C1

OFFICIAL USE ONLY – MAY CONTAIN SECURITY RELATED INFORMATION

*et S
predecessor*

From: Ruth Spencer
To: Kevin Coyne
Cc: Daniel Hudson
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)
Date: Thursday, March 17, 2011 2:23 PM

It's the file called FY 13 Formulation Sheet

We don't have it set so everyone can edit, but you should be able to "read only"

Ruth Spencer, NRC/RES, 301 251 7921

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

From: Coyne, Kevin
Sent: Thursday, March 17, 2011 3:21 PM
To: Spencer, Ruth
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

Ruth -

What is the link to the spreadsheet - this isn't something that I remember having before...

-Kevin

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

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 3:19 PM
To: Hudson, Daniel
Cc: Coyne, Kevin
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

If we can get your input by Noon Monday we can get it through management and on to NRR timely (enough). Sooner is better, of course.

Alan Kuticzky (sp?) was just up here and I gave him a printout of the DRA info to work from.

Everyone in RES should have "view only" to the spreadsheet, but I guess Kevin couldn't get in. Not sure why.

Ruth

Ruth Spencer, NRC/RES, 301 251 7921

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

From: Hudson, Daniel
Sent: Thursday, March 17, 2011 3:14 PM
To: Spencer, Ruth
Cc: Coyne, Kevin
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

Ruth,

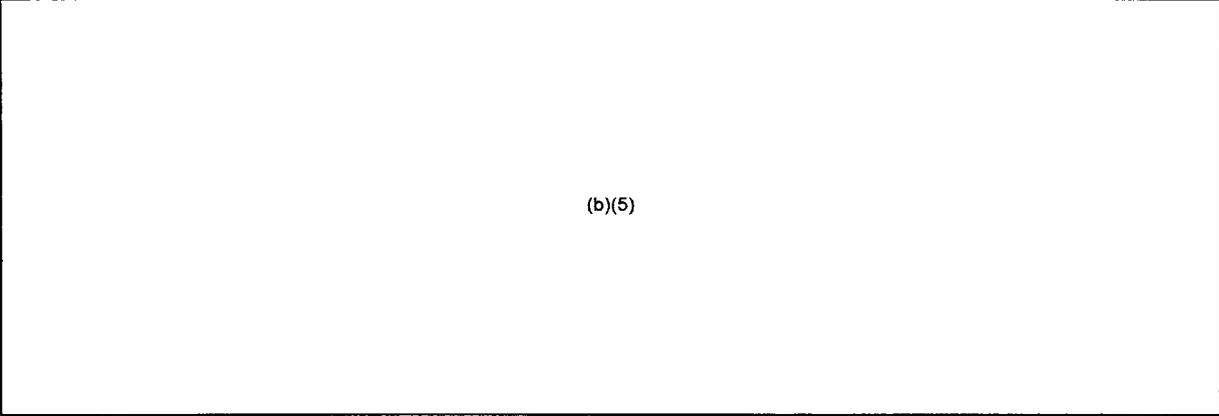
I am out of the office today. Do I read your below message correctly that NRR needs our input by Monday? Does that mean we can provide something by tomorrow?

Thank!
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

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 2:40 PM
To: Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stout, Kathleen; Granconitz, Teresa; Valentin, Andrea
Subject: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

Hi all,



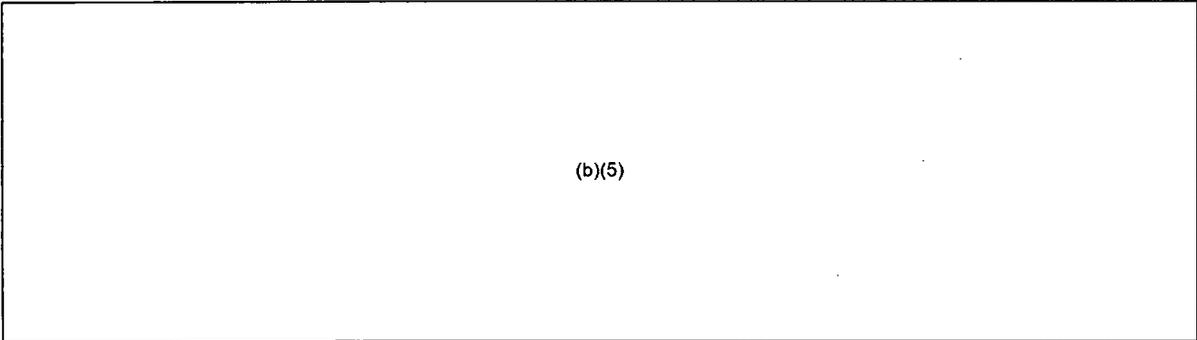
Ruth Spencer, NRC/RES, 301 251 7921

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 10:52 AM
To: Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stout, Kathleen; Granconitz, Teresa; Valentin, Andrea
Subject: ACTION Operating Reactors; NRR requests a response by COB
Importance: High

Good morning,

AS/187

We are trying to get greater clarity from NAR on this task, but we wanted to tell you what we know right now.



Thanks,
Ruth

Ruth Spencer, NRC/RES
Mailstop C6-G20M, Washington, DC 20555-0001
Phone 301 251 7521 FAX 301 251 7426
email: Ruth.Spencer@NRC.GOV<mailto:Ruth.Spencer@NRC.GOV>
Office Location: CDS-D19
<< OLE Object: Picture (Device Independent Bitmap) >> [http://www.internal.nrc.gov/ADAM/branding/image/actor-sust-1-encl.gif]

From: Coyne, Kevin
To: Spencer, Ruth
Cc: Coe, Doug; Correia, Richard; Hudson, Daniel; Ibarra, Jose; Stout, Kathleen; Kuritzky, Alan
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)
Date: Thursday, March 17, 2011 3:31:00 PM

Ruth –

Thank you for the clarification and additional time to respond to this request. In short,

(b)(5)

So... we'll do what we can today and tomorrow, but Doug is going to have to review it Monday and help with the FTE issues. We'll aim for Monday noon, but even that might be optimistic.

(b)(5)

Thanks again for your help in sorting this out –

Kevin

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 2:41 PM
To: Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stout, Kathleen; Grancorvitz, Teresa; Valentin, Andrea
Subject: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)
Importance: High

Hi all,

(b)(5)

AS/188

From: Spencer, Ruth
To: Spencer, Ruth; Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Coyne, Kevin; Kuritzky, Alan; Stout, Kathleen
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)
Date: Thursday, March 17, 2011 3:37:21 PM

(b)(5)

Ruth

Ruth Spencer, NRC/RES, 301 251 7921

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 2:41 PM
To: Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stout, Kathleen; Grancorvitz, Teresa; Valentin, Andrea
Subject: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)
Importance: High

Hi all,

(b)(5)

AS/189

From: Golla, Joe
To: Witt, Kevin
Cc: Summers, Robert; Burgess, Michele
Bcc: Golla, Joe
Subject: RE: COOP
Date: Thursday, March 17, 2011 3:51:00 PM

Thanks for the reply Kevin.

(b)(5)

(b)(5)

From: Witt, Kevin
Sent: Thursday, March 17, 2011 3:34 PM
To: Golla, Joe; Burgess, Michele; Summers, Robert
Subject: RE: COOP

(b)(5)

Please let me know if this helps, or if I can provide any additional information.

AS/190

Thanks,
Kevin

KRM
From: Golla, Joe *NRR*
Sent: Thursday, March 17, 2011 2:52 PM
To: Burgess, Michele; Witt, Kevin; Summers, Robert
Subject: COOP

Michelle, Kevin, Bob- I'm the PM in NRR charged with COOP responsibilities for NRR, among other things. I'm currently developing an Office Instruction for NRR to implement the agency COOP Plan in the event of its activation.

(b)(5)

Anyway, I'd like to ask each of you, with the above as a backdrop, and in the interest of "OCWE," would you please send me your office COOP Plan or instruction in whatever stage of development it's in? I'd like to see how the other program offices are treating this issue as well as some of the other requirements that need to be carried out. I'll be glad to furnish you the NRR draft COOP OI if you'd like to see it. Thanks in advance. Joe G

Joe Golla, Project Manager
US Nuclear Regulatory Commission
NRR/DPR/PLPB
301-415-1002

From: Flory, Shirley
To: Armstrong, Kenneth; Case, Michael; Coe, Doug; Covna, Kevin; Cuoidon, Les; Dehn, Jeff; Dion, Jeanne; Eisenberg, Wendy; Gibson, Kathy; Hudson, Daniel; Richards, Stuart; Rini, Brett; Sancimino, Donna-Marie; Schofer, Maria; Uhle, Jennifer; Valentin, Andrea; Zaki, Tarek
Subject: FW: New NRC Daily Notes for March 17, 2011
Date: Thursday, March 17, 2011 4:06:04 PM

From: NRC Daily Notes [mailto:EDO.GroupAccount@nrc.gov]
Sent: Thursday, March 17, 2011 4:00 PM
To: EDO GroupAccount
Cc: Pena, Alex
Subject: New NRC Daily Notes for March 17, 2011

OFFICIAL USE ONLY - INTERNAL INFORMATION

Daily Notes for March 17, 2011

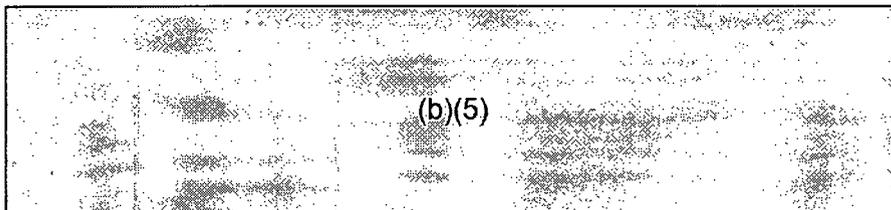
FSME

(OUO-SII)

(UPDATE) On March 17, FSME & Region I staff participated in a call with Massachusetts State and Local Government officials and the U.S. Army. On the call, the MA Department of Public Health said it would initiate radiological surveys at 3 non-contiguous areas in Springfield, MA that have been identified by the Army as areas that potentially contain depleted uranium. The surveys are being conducted by six two-inspector teams, supported by local hazardous materials units. Local officials will be present while the surveys are conducted. Depending on what is found, surveys could continue through the weekend. On March 16, a MA Press Release noted that State and Federal officials were working jointly to determine whether or not DU from the Davy Crockett weapons system used in the 1960's is present at the Armory and related areas in Springfield.

NRR

(OUO-SII)



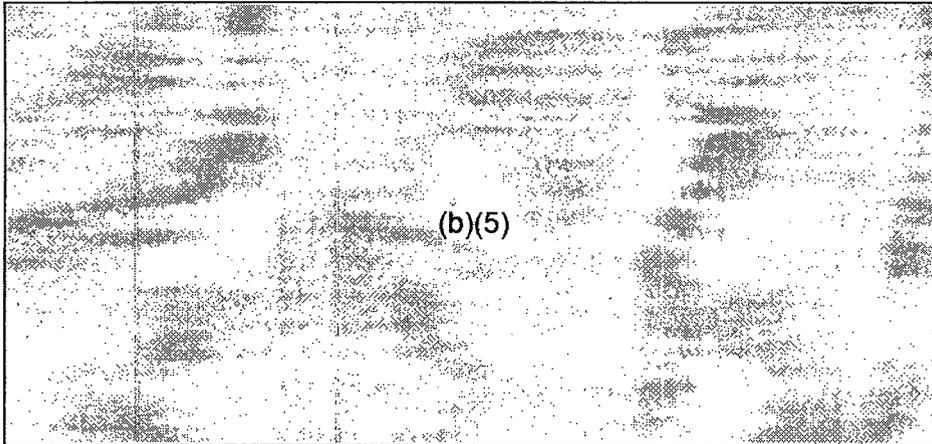
AS/191

OEDO

(OUO-SII)

On March 21, OIG is scheduled to conduct an exit conference regarding its Audit of NRC's Implementation of HSPD-12, Phase 2.

(OUO-SII)



RIII

(OUO-SII)

On March 18, Congressman Bobby L. Rush will be visiting the Dresden Nuclear Power Station. He plans on touring the site, meeting with the resident inspectors, and holding a press conference during his planned two hour visit.

(OUO-SII)

On March 18, Iowa State Representative Anesa Kajtazovic, will visit the Duane Arnold Energy Center for a plant tour and meeting with licensee management. No interaction with the resident inspection staff is currently planned.

From: Le, Hong
To: Le, Hong; Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; 'Cunningham, Mark'; Ferrell, Kimberly; Galloway, Melanie; Gitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Jolicoeur, John; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Grobe, Jack; Givvines, Mary; Leeds, Eric; Boger, Bruce
Cc: Newell, Karenina; Nguyen, Caroline; Titus, Brett; Meighan, Sean; Susco, Jeremy; Roquecruz, Carla; Valentine, Nicholee; Cusumano, Victor; Azeem, Almas; Cartwright, William; Heida, Bruce; Scales, Kerby
Subject: RE: FYI - Commission SRM - FY 2013 Budget Guidance
Date: Thursday, March 17, 2011 4:07:01 PM
Attachments: SRM-CmGBJ11-0001-final-31711.docx

Forgot – NRR LT do not have access to OCFO FY 2013 SharePoint site – attached is the final SRM (COMCBJ-11-0001, FY 2013 Performance Budget High-Level Planning Guidance).

From: Le, Hong *NRR*
Sent: Thursday, March 17, 2011 3:56 PM
To: Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; 'Cunningham, Mark'; Ferrell, Kimberly; Galloway, Melanie; Gitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Jolicoeur, John; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Grobe, Jack; Givvines, Mary; Leeds, Eric; Boger, Bruce
Cc: Newell, Karenina; Nguyen, Caroline; Titus, Brett; Meighan, Sean; Susco, Jeremy; Roquecruz, Carla; Valentine, Nicholee; Cusumano, Victor; Azeem, Almas; Cartwright, William; Heida, Bruce; Scales, Kerby
Subject: FYI - Commission SRM - FY 2013 Budget Guidance

(b)(5)

AS/192

(b)(5)

Hong T. Le
Branch Chief
NRR/PMDA/Budget Formulation and Execution Branch (BFEB)
phone: 301-415-2294

(b)(5)

ML110760346 non public

(b)(5)

(b)(5)

(b)(5)

From: Le, Hong
To: Lubinski, John
Cc: Thomas, Brian; McGinty, Tim; Quay, Theodore; Blount, Tom; Valentine, Nicholee; Helton, Shana; Newell, Karenina; Nguyen, Caroline
Subject: RE: FYI - Commission SRM - FY 2013 Budget Guidance
Date: Thursday, March 17, 2011 4:09:28 PM

Hi John,

I'll defer response to DPR. I was summarizing the SRM...

Hong
415-2294

From: Lubinski, John
Sent: Thursday, March 17, 2011 4:04 PM
To: Le, Hong
Cc: Thomas, Brian; McGinty, Tim; Quay, Theodore; Blount, Tom
Subject: RE: FYI - Commission SRM - FY 2013 Budget Guidance

Hong,

(b)(5)

From: Le, Hong
Sent: Thursday, March 17, 2011 3:56 PM
To: Bahadur, Sher; Blount, Tom; Brown, Frederick; Cheok, Michael; 'Cunningham, Mark'; Ferrell, Kimberly; Galloway, Melanie; Giitter, Joseph; Givvines, Mary; Hiland, Patrick; Holian, Brian; Howe, Allen; Jolicoeur, John; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Grobe, Jack; Givvines, Mary; Leeds, Eric; Boger, Bruce
Cc: Newell, Karenina; Nguyen, Caroline; Titus, Brett; Meighan, Sean; Susco, Jeremy; Roquecruz, Carla; Valentine, Nicholee; Cusumano, Victor; Azeem, Almas; Cartwright, William; Heida, Bruce; Scales, Kerby
Subject: FYI - Commission SRM - FY 2013 Budget Guidance

(b)(5)

AS/193

(b)(5)

Hong T. Le
Branch Chief
NRR/PMDA/Budget Formulation and Execution Branch (BFEB)
phone: 301-415-2294

From: Cheok, Michael
To: Coyne, Kevin
Cc: Hudson, Daniel; Spencer, Ruth; Coe, Doug; Correia, Richard; Demoss, Gary; Kuritzky, Alan; Beasley, Benjamin; Peters, Sean; Xing, Jing; Lee, Samson
Subject: RE: RASP User Need (UNR 2010-017)/ Additional FY2013 Scenario A Cuts for Operating Reactors
Date: Thursday, March 17, 2011 4:34:26 PM

(b)(5)

From: Coyne, Kevin
Sent: Thursday, March 17, 2011 3:14 PM
To: Cheok, Michael
Cc: Hudson, Daniel; Spencer, Ruth; Coe, Doug; Correia, Richard; Demoss, Gary; Kuritzky, Alan; Beasley, Benjamin; Peters, Sean; Xing, Jing
Subject: RASP User Need (UNR 2010-017)/ Additional FY2013 Scenario A Cuts for Operating Reactors

Mike –

(b)(5)

Kevin

AS/194

From: Le, Hong
To: Bahadur, Sher; Blount, Tom; Brown, Frederick; Check, Michael; "Cunningham, Mark"; Evans, Michele; Ferrell, Kimberly; Galloway, Melanie; Gitter, Joseph; Givines, Mary; Hilland, Patrick; Holian, Brian; Howe, Allen; Jolicœur, John; Lee, Samson; Lubinski, John; McGinty, Tim; Nelson, Robert; Dean, Bill; Dasas, Marc; Reyes, Luis; McCree, Victor; Satorius, Mark; West, Steven; Collins, Elmo; Casto, Chuck; Sheron, Brian; Moore, Scott; Doane, Margaret; Abdel-Khalik, Said; Armijo, Joseph; Greene, Kathryn; Stewart, Sharon; Moore, Thomas; Baratta, Anthony; Hawkins, Roy; Miller, Charles; Carpenter, Cynthia; Cohen, Miriam; Wiggins, Jim; Howell, Art; Zimmerman, Roy; Campbell, Andy; Burns, Stephen; McCrary, Cheryl; Krupnick, David; Perry, Jamila; Bellinger, Alesha; Dambly, Jan; Bettis, Ashley; Whetstone, Jack; Marks, Sharon; Green, Jamie; Hoadley, Danielle; Shay, Jason; Janis, James; Mitchell, Reggie; Harvey, Sue; Ma, May; Arrighi, Russell; Shnayder, Yana; Tenaglia, Mickey; "Hackworth, Sandra"; McDevitt, Joan; Grancorvitz, Teresa; Thompson, Gina; Spencer, Ruth; Stout, Kathleen; Brand, Marylynn; Zilka, Kathleen; Hunter, James; Bayliff, Shirley; Sotiropoulos, Dina; Nute-Blackshear, Lora; Rule, David; Gardin, Kathy; Mamish, Nader
Cc: Newell, Karenina; Nguyen, Caroline; Titus, Brett; Meighan, Sean; Susco, Jeremy; Roguecruz, Carla; Valentine, Nicholee; Cusumano, Victor; Azeem, Almas; Cartwright, William; Heida, Bruce; Scales, Kerby
Subject: FY 2013 Operating Reactors Business Line "Base" Budget
Date: Thursday, March 17, 2011 4:47:13 PM
Attachments: [FY2013 Operating Rx Base Budget \(office, 16Mar2011\).pdf](#)
[FY2013 Operating Rx Base Budget \(by product line, 16Mar2011\).pdf](#)

To: Operating Reactors Stakeholder Offices,

NRR, as the lead office, would like to thank everyone for all the effort that was put into formulating the FY 2013 Operating Reactors "Base" Budget request.

(b)(5)

Attachments:

- 1st File: FY2013 Operating Reactors Business Line (by product line)
- 2nd File: FY2013 Operating Reactors Business Line (by office)

Please let me know if you have any questions.

Hong T. Le
Branch Chief

AS/195

NRR/PMDA/Budget Formulation and Execution Branch (BFEB)
phone: 301-415-2294

**FY 2013 Request (by office)
Operating Reactors Business Line**

Business Line **Operating Reactors**

| | | Data | | | | | | | | |
|--------|--------------|-----------------|-----------------|-------------------|---------------|--------------|----------------|-------------------------------|------------------------------|--------------------------------|
| Office | Product Line | FY12 CE CS&T | FY 12 CE FTE | FY 12 CE Total | FY 13 CS&T | FY 13 FTE | FY 13 Total | FY13 Delta (RQ-CE) CS&T | FY13 Delta (RQ-CE) FTE | FY13 Delta (RQ-CE) Total |

| | | | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|--|
| (b)(5) | | | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|--|

**FY 2013 Request (by office)
Operating Reactors Business Line**

| Office | Product Line | FY12 CE CS&T | FY 12 CE EPE | FY 12 CE Total | FY 13 CS&T | FY 13 EPE | FY 13 Total | FY13 Delta (RQ-CE) CS&T | FY13 Delta (RQ-CE) EPE | FY13 Delta (RQ-CE) Total |
|--------|--------------|-----------------|-----------------|-------------------|---------------|--------------|----------------|-------------------------------|------------------------------|--------------------------------|
| (b)(5) | | | | | | | | | | |

FY 2013 Request
 Operating Reactors Business Line

| Data | | | | | | | | | | | | | | |
|----------------|--------------|----------|--------|-----|---------|---------|---------|------|------|-------|-----------------|----------------|------------------|---------------|
| Business Lines | Product Line | Products | Office | Loc | FY12 CE | FY12 CE | FY12 CE | FY12 | FY12 | FY12 | FY13 Delta | FY13 Delta | FY13 Delta | FY2013 Worked |
| | | | | | CS&T | FTE | Total | CS&T | FTE | Total | (RO-CE) CS&T | (RO-CE) FTE | (RO-CE) Total | |

(b)(5)

FY 2013 Request
 Operating Reactors Business Line

| Business Lines | Product Line | Products | Office | Loc | FY12 CE CS&T | FY 12 CE FTE | FY 12 CE Total | | | FY13 Delta (RO-CE) CS&T | FY13 Delta (RO-CE) FTE | FY13 Delta (RO-CE) Total | FY2013 Workload |
|----------------|--------------|----------|--------|-----|-----------------|-----------------|-------------------|--|--|-------------------------------|------------------------------|--------------------------------|-----------------|
|----------------|--------------|----------|--------|-----|-----------------|-----------------|-------------------|--|--|-------------------------------|------------------------------|--------------------------------|-----------------|

(b)(5)

FY 2013 Request
Operating Reactors Business Line

| Business Lines | Product Line | Products | Office | Loc | FY12 CE CS&T | FY12 CE FTE | FY12 CE Total | FY13 CS&T | FY13 FTE | FY13 Total | FY13 Delta (RO-CE) CS&T | FY13 Delta (RO-CE) FTE | FY13 Delta (RO-CE) Total | FY2013 Workload |
|----------------|--------------|----------|--------|-----|-----------------|----------------|------------------|--------------|-------------|---------------|-------------------------------|------------------------------|--------------------------------|-----------------|
|----------------|--------------|----------|--------|-----|-----------------|----------------|------------------|--------------|-------------|---------------|-------------------------------|------------------------------|--------------------------------|-----------------|

(b)(5)

FY 2013 Request
Operating Reactors Business Line

| Business Line | Product Line | Products | Office | Lot | FY12 CE CS&T | FY12 CE PTE | FY12 CE Total | FY12 Delta | FY12 PTE | FY12 Total | FY13 Delta (RQ-CE) CS&T | FY13 Delta (RQ-CE) PTE | FY13 Delta (RQ-CE) Total | FY2013 Workload |
|---------------|--------------|----------|--------|-----|-----------------|----------------|------------------|---------------|-------------|---------------|-------------------------------|------------------------------|--------------------------------|-----------------|
|---------------|--------------|----------|--------|-----|-----------------|----------------|------------------|---------------|-------------|---------------|-------------------------------|------------------------------|--------------------------------|-----------------|

(b)(5)

FY 2013 Request
 Operating Reactors Business Line

| Business Line | Product Line | Product | Office | Loc | FY12 CE CS&T | FY 12 CE FTE | FY 12 CE Total | FY 13 CS&T | FY 13 FTE | FY 13 Total | FY13 Delta (RQ-CE) CS&T | FY13 Delta (RQ-CE) FTE | FY13 Delta (RQ-CE) Total | FY2013 Worksheet |
|---------------|--------------|---------|--------|-----|-----------------|-----------------|-------------------|---------------|--------------|----------------|-------------------------------|------------------------------|--------------------------------|------------------|
|---------------|--------------|---------|--------|-----|-----------------|-----------------|-------------------|---------------|--------------|----------------|-------------------------------|------------------------------|--------------------------------|------------------|

(b)(5)

FY 2013 Request
 Operating Reactors Business Line

| Business Line | Product Line | Products | Office | Loc | FY 12 CE CS&T | FY 12 CE FTE | FY 12 CE Total | | | | FY 13 Delta (RO-CE) CS&T | FY 13 Delta (RO-CE) FTE | FY 13 Delta (RO-CE) Total | FY 2013 Workload |
|---------------|--------------|----------|--------|-----|------------------|-----------------|-------------------|--|--|--|--------------------------------|-------------------------------|---------------------------------|------------------|
|---------------|--------------|----------|--------|-----|------------------|-----------------|-------------------|--|--|--|--------------------------------|-------------------------------|---------------------------------|------------------|

(b)(5)

FY 2013 Request
 Operating Reactors Business Line

| Business Lines | Product Line | Products | Office | Loc | FY 12 CE CS&T | FY 12 CE FTE | FY 12 CE Total | FY 13 CS&T | FY 13 FTE | FY 13 Total | FY13 Delta (RO-CE) CS&T | FY13 Delta (RO-CE) FTE | FY13 Delta (RO-CE) Total | FY2013 Workload |
|----------------|--------------|----------|--------|-----|------------------|-----------------|-------------------|---------------|--------------|----------------|-------------------------------|------------------------------|--------------------------------|-----------------|
|----------------|--------------|----------|--------|-----|------------------|-----------------|-------------------|---------------|--------------|----------------|-------------------------------|------------------------------|--------------------------------|-----------------|

(b)(5)

From: Covne, Kevin
To: Demoss, Gary; Kurtzky, Alan; Xing, Jing; Ott, William; Beasley, Benjamin; Salley, MarkHenry
Cc: Peters, Sean; Wood, Jeffery; Coe, Doug; Correia, Richard; Hudson, Daniel; Igarra, Jose
Bcc: Lui, Christiana
Subject: FW: More info: ACTION Operating Reactors; NEED INPUT BY FRIDAY 1:00pm
Date: Thursday, March 17, 2011 4:50:00 PM
Importance: High

(b)(5)

Please provide your inputs to Dan Hudson no later than 1:00 pm Friday. No need to get fancy with your input since Dan needs to add it to the "official" budget system – an email with your proposed cuts, priority level, and impacts listed by JCN will suffice.

Thanks!

Kevin

From: Spencer, Ruth

AS/196

From: [Givines, Mary](#)
To: [Ruland, William](#); [Ferrell, Kimberly](#)
Subject: RE: Did we close the loop with the CNWRA - looking for more work to give them?
Date: Thursday, March 17, 2011 5:02:39 PM

Great – thanks.

From: Ruland, William
Sent: Thursday, March 17, 2011 5:00 PM
To: Ferrell, Kimberly
Cc: Givines, Mary
Subject: Re: Did we close the loop with the CNWRA - looking for more work to give them?

I met with Louise Lund and Sam Lee today on this topic. They have the lead.

Bill
Bill Ruland, from
USNRC Blackberry

From: Ferrell, Kimberly
To: Ruland, William
Sent: Thu Mar 17 16:03:02 2011
Subject: FW: Did we close the loop with the CNWRA - looking for more work to give them?

Bill,

Who is the external recipient of "what work NRR may be able to assign to the CNWRA"?

Do you need PMDA to assist you in collecting this information?

It looks like we have danced around communication with you directly since you are so busy, but I didn't want to duplicate efforts and therefore I am now bothering you. Sorry.

Please advise.

Thanks!
Kimberly

From: Givines, Mary
Sent: Thursday, March 17, 2011 3:04 PM
To: Ferrell, Kimberly; Narick, Marianne
Subject: RE: Did we close the loop with the CNWRA - looking for more work to give them?

The LT Chair had the lead. We can certainly collect for him and then pass on to the ET. I don't recall what happens next – the OEDO may have been collecting this information. Perhaps you can reach out to Mary Muessele and see who is the right POC.

From: Ferrell, Kimberly
Sent: Thursday, March 17, 2011 2:46 PM
To: Narick, Marianne; Givines, Mary

AS/197

Subject: RE: Did we close the loop with the CNWRA - looking for more work to give them?

(b)(5)

Who is collecting this info for NRR – is it PMDA or a technical division?

From: Narick, Marianne

Sent: Thursday, March 17, 2011 2:32 PM

To: Givvines, Mary

Cc: Ferrell, Kimberly; Cherry, Brandon; Daniel, Richard; Yee, Linda

Subject: FW: Did we close the loop with the CNWRA - looking for more work to give them?

(b)(5)

Marianne Narick

Chief, NRR Contracts Management Branch

US Nuclear Regulatory Commission

301-415-2175

From: Givvines, Mary

Sent: Monday, March 14, 2011 2:30 PM

To: Ruland, William

Cc: Narick, Marianne

Subject: Did we close the loop with the CNWRA - looking for more work to give them?

Mary Givvines

Director, Program Management, Policy Development and Analysis Staff

Office of the Nuclear Reactor Regulation

U.S. Nuclear Regulatory Commission

(301) 415-1275; Mary.Givvines@nrc.gov

From: Lund, Louise
To: Ruland, William; Lee, Samson
Subject: FW: Did we close the loop with the CNWRA - looking for more work to give them?
Date: Thursday, March 17, 2011 5:12:59 PM

(b)(5)

Louise

From: Narick, Marianne
Sent: Thursday, March 17, 2011 4:11 PM
To: Lund, Louise
Subject: FW: Did we close the loop with the CNWRA - looking for more work to give them?

Louise... Is there something you want to add to go to the Centers beyond what is listed below highlighted in yellow... This was the info provided to me by Brandon as DLRs current work placed with the Center...

Marianne Narick
Chief, NRR Contracts Management Branch
US Nuclear Regulatory Commission
301-415-2175

From: Ferrell, Kimberly
Sent: Thursday, March 17, 2011 4:01 PM
To: Givines, Mary; Narick, Marianne
Subject: RE: Did we close the loop with the CNWRA - looking for more work to give them?

I'll find out who the external POC is and whether Bill Ruland needs PMDA assistance to collect this.

Marianne – can you touch base with Louise Lund on any activities which may not be in your list below. (I can't tell whose divisions this work will come from).

Thanks!

From: Givines, Mary
Sent: Thursday, March 17, 2011 3:04 PM

AS/198

From: Bone, Alysia
To: Kuritzky, Alan
Cc: Coyne, Kevin; Peters, Sean
Subject: RE: 3rd QTR APP Update Reminder
Date: Thursday, March 17, 2011 5:23:50 PM

Hi Alan,

(b)(5)

Please let me know if you need any additional information.
Thanks,
Alysia

From: Kuritzky, Alan
Sent: Thursday, March 17, 2011 4:37 PM
To: Appignani, Peter; Bone, Alysia; Gonzalez, Michelle; Helton, Donald; Kuritzky, Alan; Leschek, Walter; Sancaktar, Selim; Tobin, Margaret; Wood, Jeffery
Cc: Coyne, Kevin
Subject: FW: 3rd QTR APP Update Reminder
Importance: High

Per the email below, please make sure your spending plans are updated in ROMA by next Tuesday (3/22). Also, pursuant to this morning's branch meeting, by tomorrow at noon,

(b)(5)

AS/199

(b)(5)

For those of you who are out of the office and can't comply by tomorrow noon, please provide this info to me as soon as you can.

Thanks,
Alan

From: Littlejohn, Jennene
Sent: Thursday, March 17, 2011 11:21 AM
To: Kuritzky, Alan; Beasley, Benjamin; Coyne, Kevin; Demoss, Gary; Ott, William; Peters, Sean; Salley, MarkHenry
Cc: Coe, Doug
Subject: 3rd QTR APP Update Reminder
Importance: High

Good Morning BC's

This email is a follow up to Monday's DRA Management meeting, We are asking all of the branch chiefs to have their PM's update their spending plans NLT Tuesday March 22,2011. We just received an email from PMDA indicating that we have a very short turn over with updating the APP. Chon and I will be meeting with each Branch Chief on Wednesday March 23,2011 to discuss their branches needs.

If you have any questions please feel free to contact Chon or Myself.

*Thank you,
Jennene Littlejohn
Management Analyst
Office-301-251-7925
Fax-301-251-7434
jennene.littlejohn@nrc.gov
Our Truest Life is when we are in dreams awake.*

From: [RESDEMLSR_Resource](#)
To: [Case, Michael](#); [Hurd, Sapna](#); [Richards, Stuart](#)
Subject: FW: February Monthly Letter Status Report for JCN N7313, "AERB, Standard Problem Exercise #3"
Date: Thursday, March 17, 2011 5:36:24 PM
Attachments: [107855 February 11.pdf](#)

From: Akin, Lili A[SMTP:LAAKIN@SANDIA.GOV]
Sent: Thursday, March 17, 2011 5:35:56 PM
To: Akin, Lili A; Graves, Herman
Cc: RESDEMLSR_Resource; Hannigan, Sarah; Khalil, Imane; Daly, Jill; Anker, Beverly
Subject: February Monthly Letter Status Report for JCN N7313, "AERB, Standard Problem Exercise #3"
Auto forwarded by a Rule

Dear Herman,

Attached is the February, 2011 monthly letter status report for JCN N7313, "AERB, India Standard Problem Exercise #3."

No property we acquired during the reporting period. No travel was completed during this reporting period either.

Please let me know if you have any questions or comments.

Thanks,
Lili

Lili A. Akin, Ph.D.
Senior Technical Staff, Structural and Thermal Analysis
Sandia National Laboratories
Tel: (505)-284-2604
Cell: (b)(6)
Email: laakin@sandia.gov
Sandia National Laboratories
P.O. Box 5800
MS-0744
Albuquerque, NM 87185-0748

AS/200



Sandia National Laboratories

Operated for the U.S. Department of Energy by
Sandia Corporation

P.O. Box 5800
Albuquerque, NM 87185-0744

Phone: (505) 284-2604
Fax: (505) 844-2348
Internet: laakin@sandia.gov

March 17, 2011

Mr. Herman L. Graves
RES/DE/SGSEB
Mail Stop C5A24M
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Dear Mr. Graves:

Enclosed is the summary report for February, 2011 for JCN N7313, "AERB, India Standard Problem Exercise #3". The last Monthly Letter Status Report for this project was sent in February of 2011. The items included in the financial report meet the financial status requirements of Directive 11.7 consistent with Sandia's financial information system. If you have questions or comments, please feel free to call me at (505) 284-2604.

Sincerely,

Lili A. Akin, PhD
Senior Member of Technical Staff,
Structural Integrity & Licensing Support

Enclosure

Copy to:

| | | |
|-----|---------------------|--|
| NRC | H. L. Graves | Herman.Graves@nrc.gov |
| NRC | Jill Daly | Jill.daly@nrc.gov |
| NRC | Beverly Anker | Beverly.anker@nrc.gov |
| NRC | RES/DE/MLSR | RESDEMLSR.Resource@nrc.gov |
| SNL | L. A. Akin (6764) | laakin@sandia.gov |
| SNL | Imane Khalil (6764) | ikhaliil@sandia.gov |
| SNL | S. Hannigan | shannig@sandia.gov |

Monthly Letter Status Report

Reporting Period: February, 2011

Name and Address Organization 6764, Mail Stop 0744
Sandia National Laboratories
P.O. Box 5800
Albuquerque, NM 87185-0744

JCN: N7313

Principal Investigator: Lili A. Akin, (505) 284-2604

Project Period of Performance: August 3, 2009 to December 31, 2011

PROJECT OBJECTIVE

The objective of JCN N7313, "AERB (Atomic Energy Research Board), India Standard Problem Exercise #3," is to support an urgent need by the Office of Nuclear Regulatory Research (RES) to engage in a collaboration with the AERB on Containment Integrity Research. The broad objectives of this collaboration had been agreed upon during meetings between the US NRC and the AERB of India (May, 2006), and the detailed scope was defined during the initial planning meeting held in conjunction with the 8th AERB-NRC Nuclear Safety Projects meeting (Jan., 2007). With the resumption of funding, Sandia National Laboratories is supporting the NRC in the following tasks:

1. Provide technical support to the AERB in the form of a literature search of "unclassified and not sensitive" analyses, documentation, records, publications, and pre-test/post-test data for concrete containment structures. Sandia National Laboratories will also provide access to unclassified and non-sensitive information from the 1:4-scale NUPEC/NRC PCCV model test conducted by Sandia under a collaboration between the Nuclear Power Engineering Corporation (NUPEC) of Japan and the US NRC.
2. Organize and participate in the round robin analysis of the Standard Problem Exercise #3 (joint analysis of the NUPEC/NRC 1:4-Scale PCCV Model Test), phase 1.

This work is related to a number of NRC-sponsored Containment Integrity Programs at Sandia National Laboratories. A comprehensive summary of all these programs has been published in NUREG/CR-6906. These programs have investigated the behavior of light water reactor (LWR) containment buildings under loadings that exceed the design basis or so-called "severe" accident loads.

PROGRESS DURING REPORTING PERIOD

In July of 2010, the kick-off workshop for the SPE #3 was held in Mumbai, India. In relation to this, planning and presentations were finalized. During the workshop, each phase of the round robin analysis was discussed, and final decisions were made as to schedule and scope. It was agreed that a white paper would be developed by SNL, and approved by the NRC and AERB prior to submittal to the workshop participants. The participant presentations have been added to the website. The white paper was finalized. During this reporting period, communication with the participants has continued, and updates to the website have been made. Additionally, "Model 1" and "Model 2" results were sent to the participants to assist in their efforts, and work has continued on developing the model for "Model 3" described in the SPE #3 white paper. The planning for the Washington D.C. Phase One workshop has continued, and an invitation has been sent out to participants for the workshop..

Details of the project activities are provided in the following sections.

A. TECHNICAL PROGRESS

TASK 1 Collaboration on Containment Capacity Analysis

Task 1(a) Technical Information Exchange and Analysis Planning

Subsequent to the 8th NRC-AERB Nuclear Safety Projects meeting held at NRC headquarters in January, 2007, at which time agreement was reached on the general scope of Standard Problem Exercise #3 on Containment Capacity Analysis, Sandia submitted a revised proposal (NRC Form 189) to support the SPE. Subsequently, NRC Staff decided not to continue with the proposed effort. Following the request for a revised proposal (NRC Form 189) in July of 2009, and subsequent discussions, Sandia prepared the proposal. Sandia has sent the information requested by AERB. Sandia has finalized the invitation and list of attendees, and has sent the invitation to all participants. Furthermore, SNL has been handling communications with the prospective participants. A draft for the workshop specification and data package have been sent to the AERB and NRC. Upon receipt of comments, SNL will finalize these documents and the planning for Task 1(b & c). The agenda for the workshop, as well as the website, have been sent to the participants. Travel and accommodations for the initial workshop were arranged, and necessary paperwork was submitted. Final preparation for the workshop was completed.

The date of the initial workshop (which was originally April 28-30) was pushed back to June to accommodate the ash causing flight disruptions throughout Europe. As a result, work slowed to make sure the budget is followed with respect to the major milestones of Phase I. The initial workshop has been successfully completed, and the white paper draft has been finalized and sent out to the participants for review. The white paper has been finalized.

**Task 1(b) Standard Problem Exercise #3: Joint Analysis of the
NUPEC/NRC 1:4-Scale Prestressed Concrete Containment Vessel Model
Test Examining Local Effects**

The details and scope of this task are included in the discussions of Phase One of the white paper which has been sent out to the participants. Sandia has begun reviewing analytical models from the ISP 48 work and the post test analysis for incorporation into the new analyses. Additionally, a new contract was set up with Moffatt & Nichol to allow the continuation of Robert Dameron's expertise and participation in the Round Robin.

Model 2 was completed, and a technical memo was sent to all participants to assist with their modeling efforts. In addition, an invitation for the Phase 1 final workshop has been sent out. Specifications for modeling results has been requested of the participants, and a hotel has been finalized for the D.C. workshop.

The PCCV full Model 3 (Figure 1) called for in the white paper, is currently under development. A close up view of the anchor shells is shown in Figure 2. Finally, the initial Abaqus model (meshed shell elements with thickness rendered) is shown in Figure 3. The model has been successfully run under various pressure loads, but improvements are under way to better represent the stiffness and behavior of the model in the buttress areas. Figure 4 shows the excessive stiffness currently incorporated into the model.

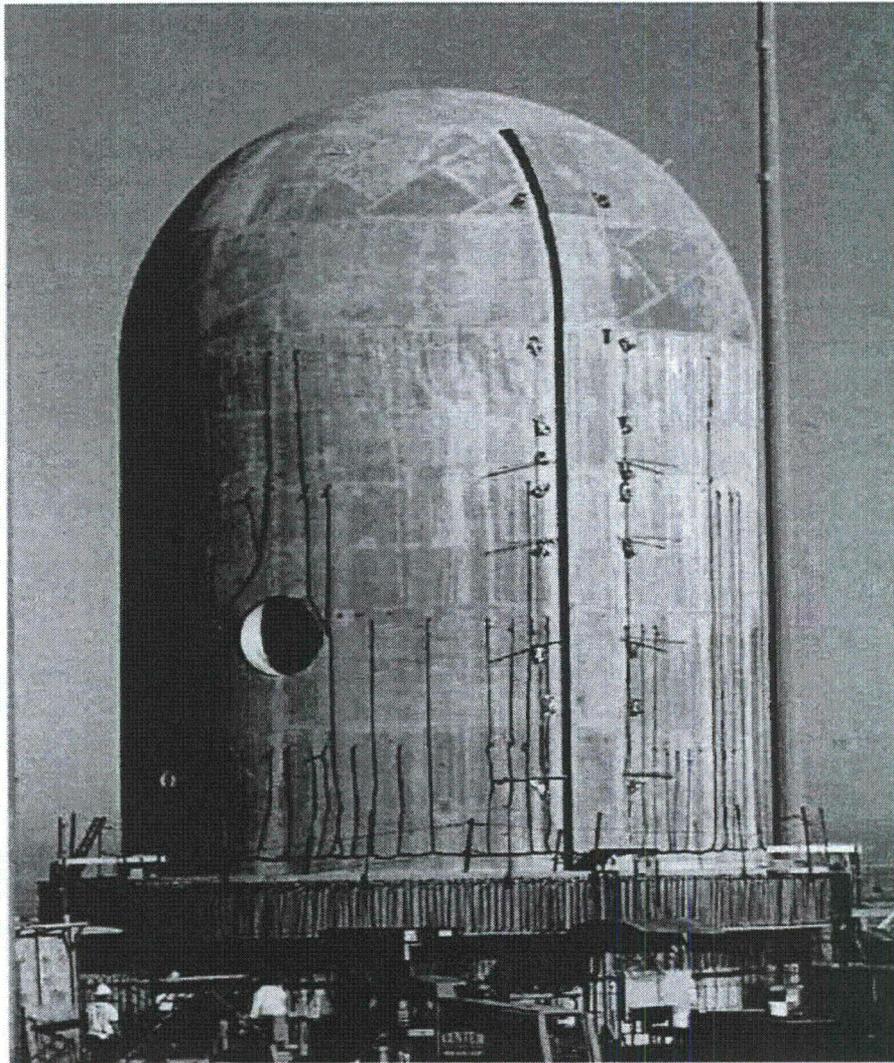


Figure 1: Full PCCV to be Modeled with Model 3

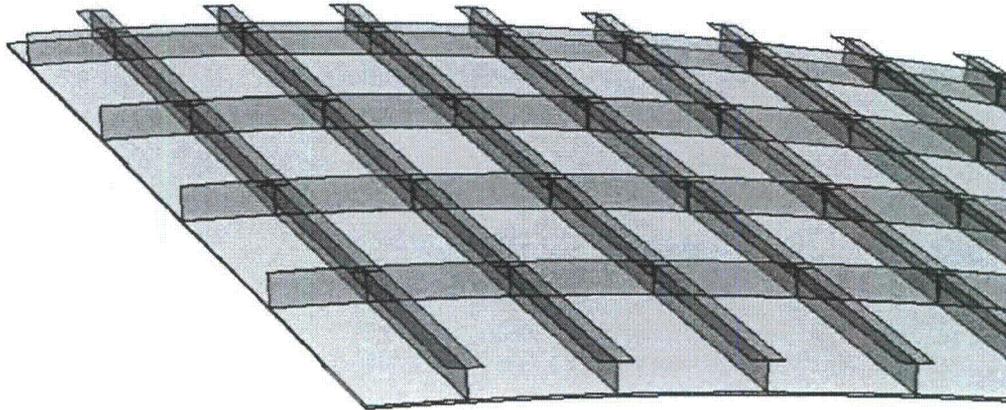


Figure 2: Close-Up of Anchor Shells

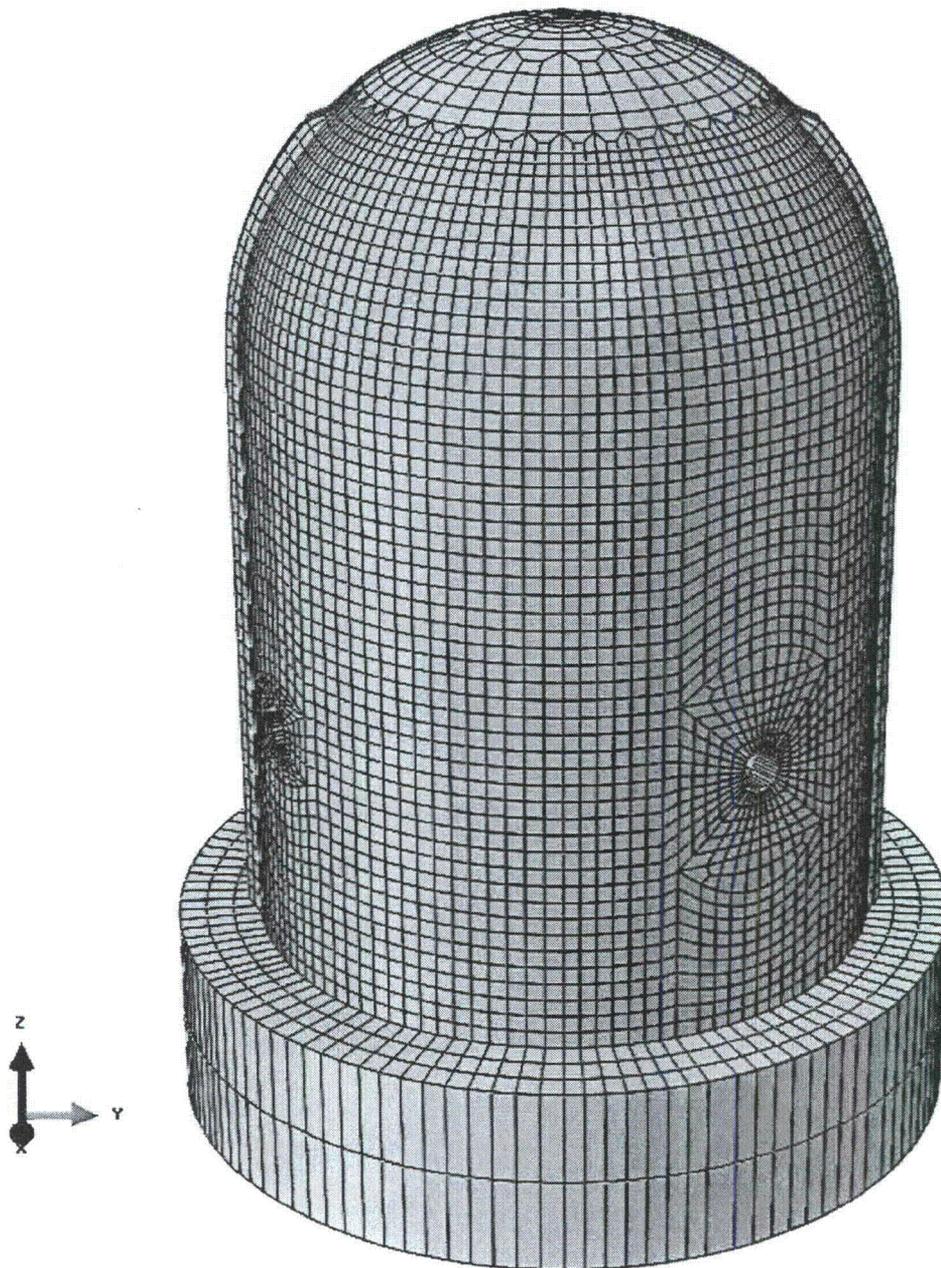


Figure 3: Model 3 – Meshed Shell Elements with Thickness Rendered (Still Under Development)

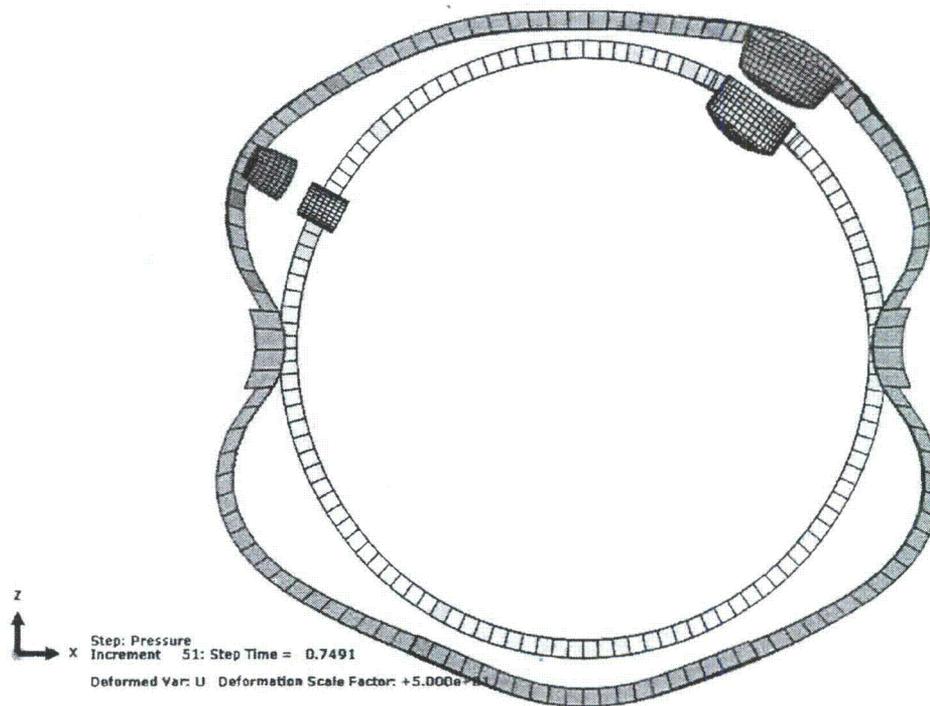


Figure 4: Deformed Shape at 3.0 x Design Pressure (x50) Highlighting Excessive Stiffness at Buttresses

B. PROPERTY ACQUIRED

No property meeting current DOE tracking criteria was purchased for this project. Therefore, this constitutes a **NEGATIVE** Property Report.

TRAVEL

No travel was undertaken during this reporting period.

ANTICIPATED OR ENCOUNTERED PROBLEM AREAS

There are no anticipated or encountered technical problems during this reporting period. A new contract with Moffatt & Nichol has been set up for Robert Dameron who is no longer with DEA. An anticipated programmatic problem is the need for funds following the conclusion of the Phase I workshop in April. The NRC and SNL are working to ensure that funds are available to cover the costs until then, but in order to avoid a delay to the work, a new project or additional funds for Phase II will need to be set up in April.

PLANS FOR THE NEXT REPORTING PERIOD

SNL will continue with the Technical Information Exchange. Model development of the local models (Model 3) shall continue. Planning for the D.C. meeting in April shall continue. In addition, SNL hopes to complete the 189 for Phase 2 of the SPE, which includes the full scale model development upon receipt of the 173 from the NRC.

VARIANCE ANALYSIS

Because of the delay of the initial workshop, no formal variance analysis is available. We are currently underspent according to the initial schedule, but with the delay in the initial workshop, we are slowly catching up to the spending plan.

FINANCIAL STATUS

The financial status, shown on the attached pages, is automatically generated from data provided by the Sandia Financial Information System.

Burdened costs for February consisted of continuing the Technical Information Exchange, and phase I analyses. The uncosted project balance at the end of February is \$103,344.76, and the uncommitted amount is \$53,129.83.

MLSR FINANCIAL STATUS REPORT
Month of: February, 2011 (FY2011)

JCN: N7313

PI: AKIN, LILI

Date Printed: 3/14/2011

| | | | | | |
|--|--------------------------|-----------------------|-----------|------------------------|-----------|
| Job Code #: | N7313 | SNL Project #: | 107855 | NRC Office: | RES/DE |
| Title: | AERB-INDIA SPE 3 | | | | |
| Financial Reporting Period: | From | 01/29/2011 | To | 02/25/2011 | |
| Project Period of Performance (from Form 189) | Proj. Start Date: | 8/3/2009 | | Proj. End Date: | 1/31/2012 |

| | | |
|---|----|------------|
| Total Project Ceiling Amount: | \$ | 380,000.00 |
| Total Funds Obligated to Date: | \$ | 380,000.00 |
| Total Current Fiscal Year Ceiling Amount: | \$ | 105,200.00 |
| Total Funds Obligated Current Fiscal Year: | \$ | 0.00 |

| | Current Month Hours | Fiscal Year to Date Hours | Cumulative (1) Project To Date Hours |
|------------------------------------|----------------------------|----------------------------------|---|
| DIRECT STAFF EFFORT (Hours) | 7.00 | 62.75 | 822.75 |

Current Cost Incurred Status to the Actual Dollar

| | Current Month (\$) | FY2011 to Date (\$) | Cumulative Project to Date |
|--|---------------------------|----------------------------|-----------------------------------|
| Burdened Labor | 1,250.09 | 9,219.76 | 120,288.56 |
| Burdened Chargebacks (1) | -69.61 | 702.94 | 939.12 |
| Burdened Travel | 0.00 | 0.00 | 17,357.97 |
| Burdened Purchases (2) | 32,907.84 | 76,426.31 | 130,011.67 |
| TOTAL BURDENED COSTS (FY00 FORWARD)* | <u>34,088.32</u> | <u>86,349.01</u> | <u>268,597.32</u> |
| DOE Added Factor | 1,022.65 | 2,590.47 | 8,057.92 |
| Total Costs (includes DOE Added Factor) | <u>35,110.97</u> | <u>88,939.48</u> | <u>276,655.24</u> |

*BURDENS: (Included in "Total Burdened Costs") This includes ALL Corporate Assessments (GA), plus labor loads.

| | | | |
|--|----------|-----------|-----------|
| | 4,404.00 | 13,449.00 | 79,676.76 |
|--|----------|-----------|-----------|

| | | |
|---------------------------------|--------------|--|
| Total Uncosted Amount | \$103,344.76 | Does not include commitments listed below. |
| FY11 Commitments | \$50,214.93 | Includes Current Fiscal Year Service Orders, Purchase Requests, and Purchase Orders with all SNL burdens, and DOE Added Factor. |
| Total Uncommitted Amount | \$53,129.83 | Amount represents uncommitted funding remaining on the project. |

Percentage of available cumulative funds costed 73%
Percentage of available current fiscal year funds costed 46%

(1) Includes all cost transfers or adjustments and all services.

(2) Includes all subcontractor and materials purchases.

Portion of Total Costs charged to Foreign Funds is not available in SNL system. If applicable, it will be covered in Financial Status section of the narrative portion of this report.

MLSR FINANCIAL STATUS REPORT
Month of: February, 2011 (FY2011)

N7313

107855

AKIN, LILI

3/14/2011

February, 2011 (FY 2011)
Cost Totals by Project Task

NOT ABLE TO AUTOMATE FROM THE SNL FINANCIAL SYSTEM.

Monthly Spending Plan Update
(See 189 Page 3 Format)

THIS FORM WILL BE ATTACHED TO THE INITIAL MLSR, AND WHEN CUMULATIVE-TO-DATE COSTS VARY BY 20% OR MORE FROM PLANNED SPENDING.

Overall Funding Status (in actual dollars)

| | |
|--|-------------------|
| Prior FY Carryover | 192,284.24 |
| FY 11 Project Funds Required (from 189) | |
| FY 11 Funds Received to Date | 0.00 |
| FY 11 Funding Balance Needed | 0.00 |
| Projected Carryover to Next FY | |
| Total Estimated Project Amount | 380,000.00 |
| Total Project Cumulative Amount Obligated | 380,000.00 |
| Total Project Balance Needed | 0.00 |
| Total Project Cumulative Amount Costed | 276,655.24 |

From: Scott, Michael
To: Wagner, Katie
Cc: Dion, Jeanne; Santiago, Patricia; Coyne, Kevin
Subject: FW: Eric Leeds Remarks.docx
Date: Thursday, March 17, 2011 5:47:25 PM
Attachments: Eric Leeds Remarks.docx
Importance: High

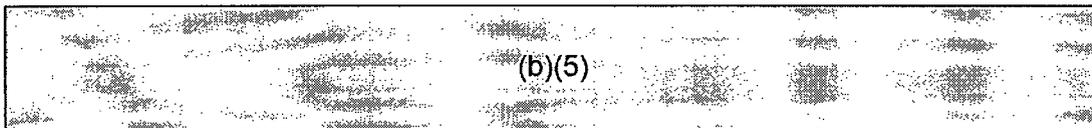


Coyne.

Mike

From: Dion, Jeanne
Sent: Thursday, March 17, 2011 3:42 PM
To: Scott, Michael
Subject: FW: Eric Leeds Remarks.docx
Importance: High

Joe Giitter requested RES review this Q&A.



Comments are requested back to NRR ASAP.

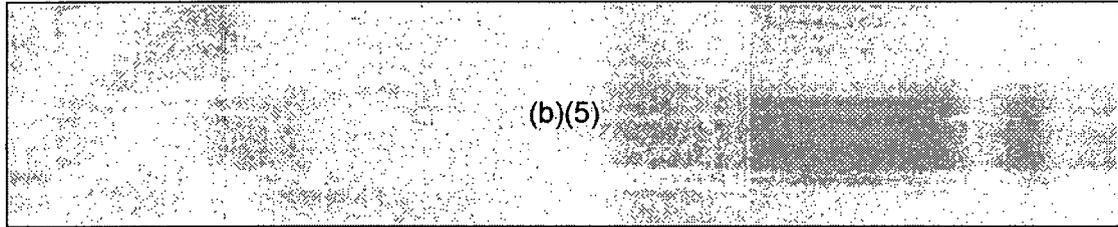
Thanks,
Jeanne

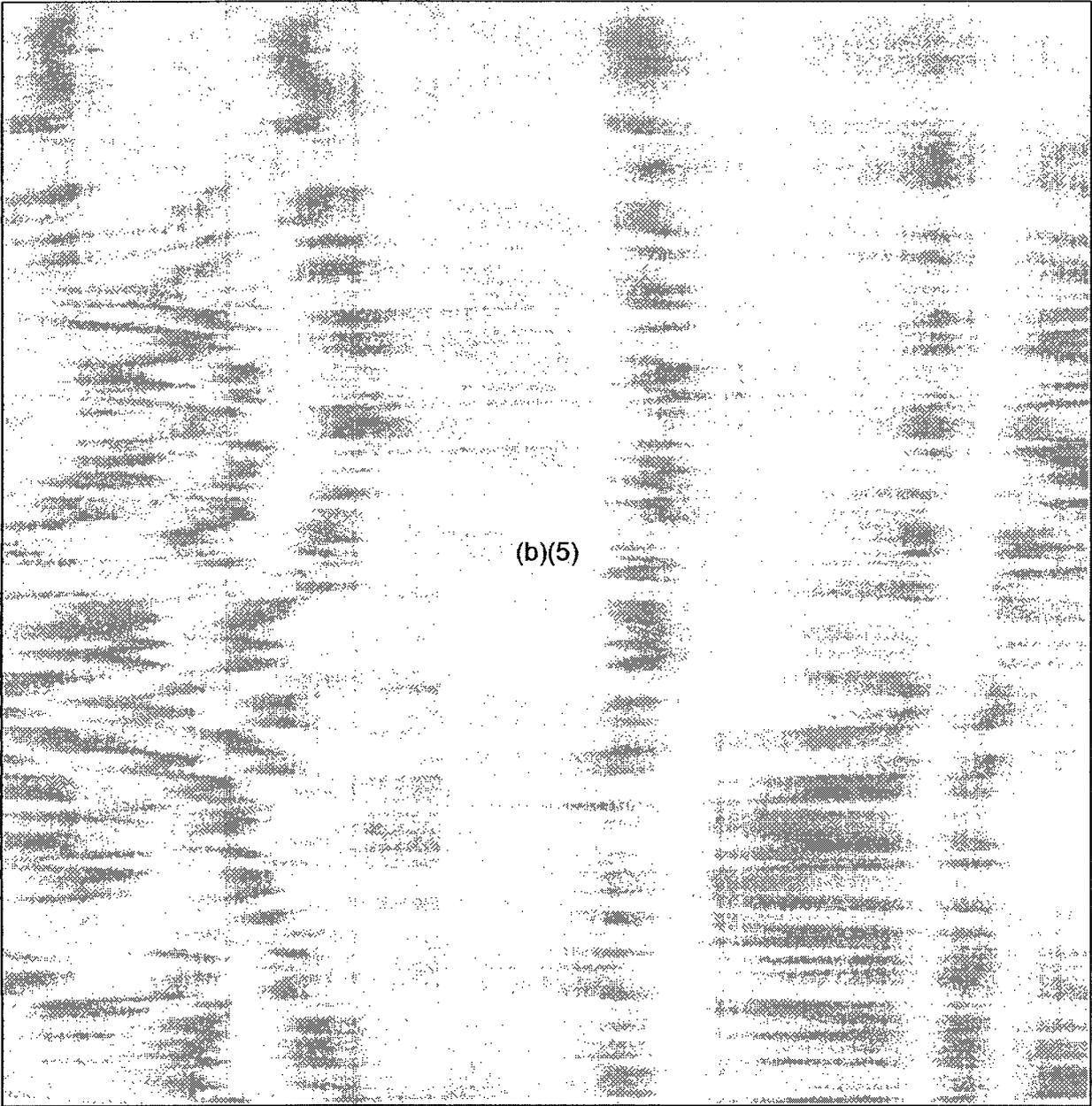
From: Giitter, Joseph
Sent: Thursday, March 17, 2011 3:34 PM
To: Dion, Jeanne
Subject: FW: Eric Leeds Remarks.docx

From: Giitter, Joseph
Sent: Thursday, March 17, 2011 3:03 PM
To: Nelson, Robert
Cc: Howe, Allen

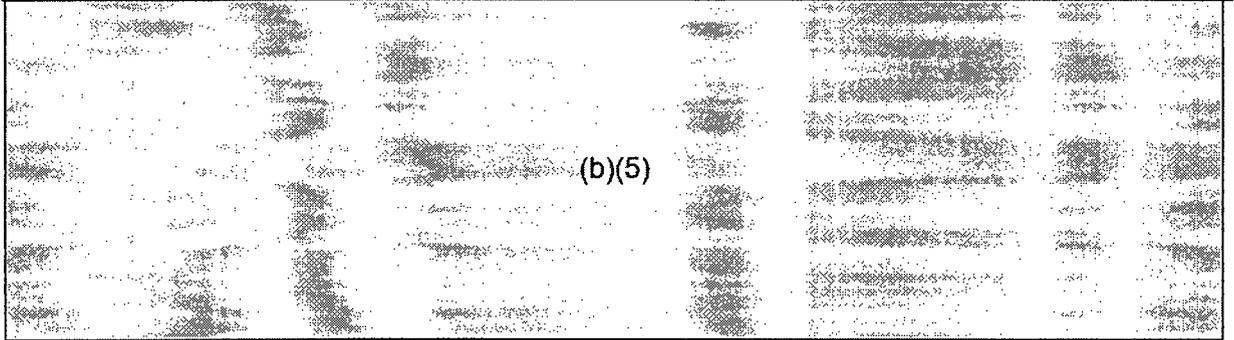
AS/201

Subject: Eric Leeds Remarks.docx

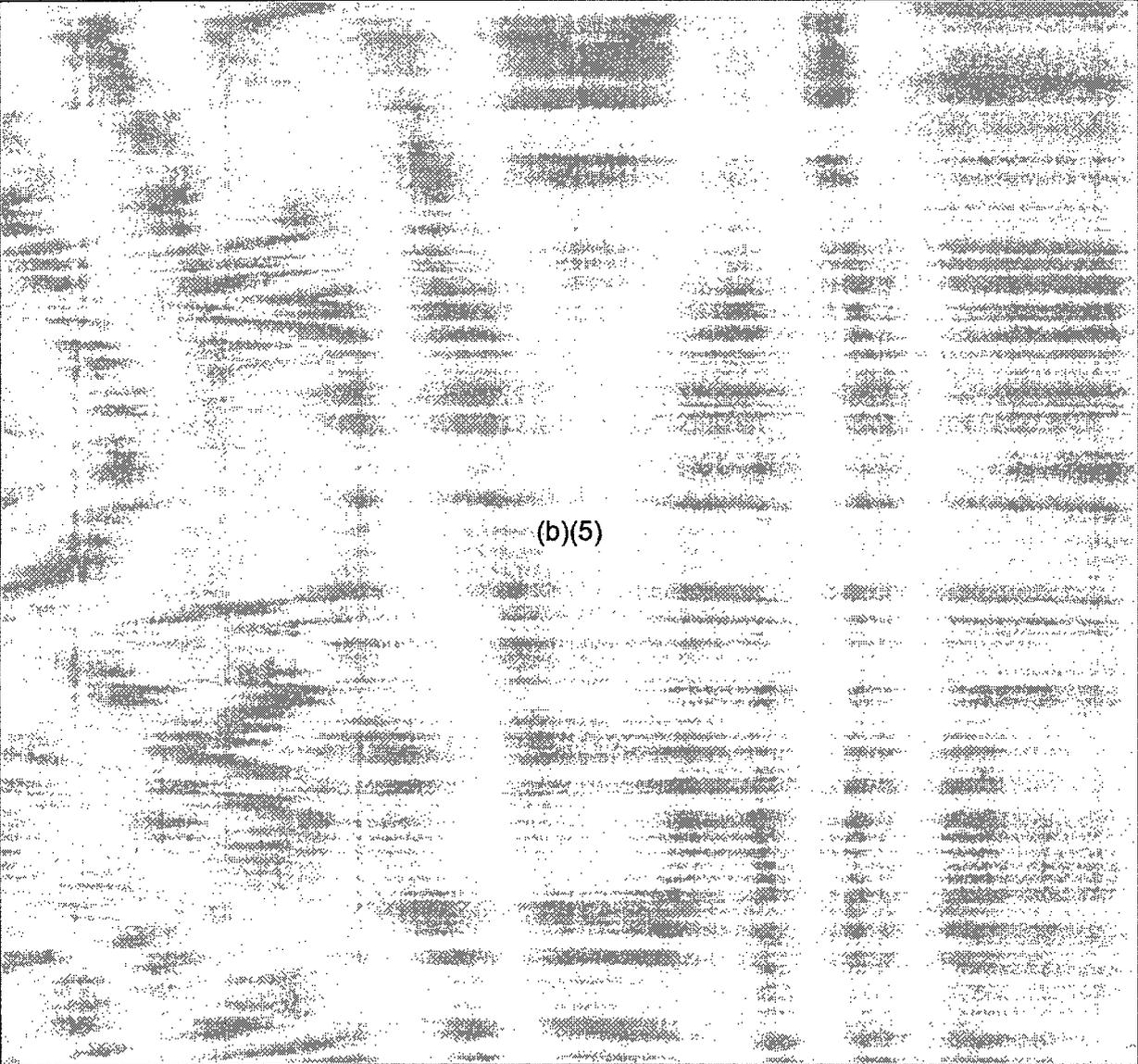




(b)(5)



(b)(5)



(b)(5)

From: Ake, Jon
To: Beasley, Benjamin; Stutzke, Martin
Cc: Coyne, Kevin
Subject: RE: Suggested press release
Date: Thursday, March 17, 2011 5:38:53 PM

My suggested edits

From: Beasley, Benjamin
Sent: Thursday, March 17, 2011 3:26 PM
To: Ake, Jon; Stutzke, Martin
Cc: Coyne, Kevin
Subject: Suggested press release

For your comments. I intend to send this to Scott Burnell first thing Friday morning.

Ben

Draft Press Release Responding to MSNBC Article

(b)(5)

AS/202

From: [RESDEMLSR Resource](#)
To: [Case, Michael](#); [Hurd, Sapna](#); [Richards, Stuart](#)
Subject: FW: February Monthly Letter Status Report for JCN V6186, "Study on Post-Tensioning Methods"
Date: Thursday, March 17, 2011 5:50:56 PM
Attachments: [152798 February 11.pdf](#)

From: Akin, Lili A[SMTP:LAAKIN@SANDIA.GOV]
Sent: Thursday, March 17, 2011 5:50:35 PM
To: Akin, Lili A; Graves, Herman
Cc: RESDEMLSR Resource; Hannigan, Sarah; Khalil, Imane; Daly, Jill; Anker, Beverly
Subject: February Monthly Letter Status Report for JCN V6186, "Study on Post-Tensioning Methods"
Auto forwarded by a Rule

Dear Herman,

Attached is the February, 2010 monthly letter status report for JCN V6186, "Study on Post-Tensioning Methods."

No property was acquired during the reporting period. No travel was completed during the reporting period.

Please let me know if you have any questions or comments.

Thanks,
Lili

Lili A. Akin, Ph.D.
Senior Technical Staff, Structural and Thermal Analysis
Sandia National Laboratories
Tel: (505)-284-2604
Cell: (b)(6)
Email: laakin@sandia.gov
Sandia National Laboratories
P.O. Box 5800
MS-0744
Albuquerque, NM 87185-0748

AS/203



Sandia National Laboratories

Operated for the U.S. Department of Energy by
Sandia Corporation

P.O. Box 5800
Albuquerque, NM 87185-0744

Phone: (505) 284-2604
Fax: (505) 844-2348
Internet: laakin@sandia.gov

March 17, 2011

Mr. Herman L. Graves
RES/DE/SGSEB
Mail Stop C5A24M
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Dear Mr. Graves:

Enclosed is the summary report for February, 2011 for JCN V6186, "Study on Post-Tensioning Methods". The last Monthly Letter Status Report for this project was sent in February of 2011. The items included in the financial report meet the financial status requirements of Directive 11.7 consistent with Sandia's financial information system. If you have questions or comments, please feel free to call me at (505) 284-2604.

Sincerely,

Lili A. Akin, PhD
Senior Member of Technical Staff,
Structural Integrity & Licensing Support

Enclosure

Copy to:

| | | |
|-----|---------------------|--|
| NRC | H. L. Graves | Herman.Graves@nrc.gov |
| NRC | Jill Daly | Jill.daly@nrc.gov |
| NRC | Beverly Anker | Beverly.anker@nrc.gov |
| NRC | RES/DE/MLSR | RESDEMLSR.Resource@nrc.gov |
| SNL | L. A. Akin (6764) | laakin@sandia.gov |
| SNL | Imane Khalil (6764) | ikhalil@sandia.gov |
| SNL | S. Hannigan | shannig@sandia.gov |

Monthly Letter Status Report

Reporting Period: February, 2011

Name and Address Organization 6233, Mail Stop 0744
Sandia National Laboratories
P.O. Box 5800
Albuquerque, NM 87185-0744

JCN: V6186

Principal Investigator: Lili A. Akin, (505) 284-2604

Project Period of Performance: September 15, 2010 to September 30, 2012

PROJECT OBJECTIVE

The objective of JCN V6186, "Study on Post-Tensioning Methods," is to investigate the structural behavior of a concrete containment vessel with grouted and ungrouted tendon systems. In addition, there is a need to document and compare in-service inspection requirements provided in peer reviewed standards and codes for grouted and ungrouted tendons. An additional objective is to perform a literature review and code comparison to establish how various codes treat the issue of tendon development length, bond, and tendon contribution to flexural section capacity. Finally, Sandia shall examine corrosion protection used for grouted and ungrouted tendons to assess the adequacy of the protection for the expected life of the structure. This Study will consist of three primary tasks:

1. Study on Containment Structural Behavior and Failure Modes

The focus of this task is to use an appropriate computation method or tool to study the structural behavior, strength, and expected failure modes of a post-tensioned containment with grouted and ungrouted tendon system. The work may be done as part of the Organization of Economic and Cooperative Development / Nuclear Energy Agency (OECD/NEA) "Study on post-tensioning Methodologies in Containments," where it has been proposed that methods be compared in a round robin study of advantages and disadvantages of grouted tendons. The proposed OECD/NEA study builds on the International Standard Problem 48, "Containment Integrity." This task will also include the literature review and code comparison task described in the project objectives. The modeling approaches, analytical aspects, and the results of this study clearly identifying the failure modes shall be included in the contractor letter report in a NUREG/CR format.

2. Comparison of Post-Tensioning and In-Service Inspection Methods

A post-tensioned containment is not only subject to normal material degradation but also to a continuous loss of pre-stressing force. The losses result from inherent material characteristics. Because loss of pre-stress is not completely predictable, loss of pre-stress or residual strength must be measured at regular intervals to determine the containment strength to resist accident pressure and design loads with acceptable margins. Sandia will investigate and document current procedures of post-tensioning and monitoring of post-tensioning to verify the effectiveness of the in-service inspection examination methods for grouted and ungrouted tendon systems. Sandia will answer such questions as 1) are current examination methods adequate and 2) if corrective measures are used, are they adequate?

3. Assessment of Durability and Long-Term Corrosion Protection

Sandia shall assess long-term corrosion protection methods to ensure life-long durability for the grouted and ungrouted tendon systems currently used in nuclear power or related industries. Sandia will review and discuss information and/or data related to corrosion that concerns tensioning element strength and ductility, tendon sheathing filler characteristics and tendon duct type. Other aspects (e.g., aging mechanisms, stress) of material physical condition should be addressed to support conclusions made about the durability. Results of the findings shall be included in the final NUREG/CR.

PROGRESS DURING REPORTING PERIOD

SNL and the NRC have accepted the 189, and further funding has been received. A contract has been set up with Moffatt & Nichol to allow the continuation of work on the development of the 3D full analytical model representation of the NUPEC/NRC quarter-scale test model which is also being developed by Moffatt & Nichol for use in JCN N7313. Model development of the 3D analytical model (ABAQUS) has continued.

Details of the project activities are provided in the following sections.

A. TECHNICAL PROGRESS

TASK 1 Study on Containment Structural Behavior and Failure Modes

Sandia began investigating the NASTRAN model, and has started the process to convert the file to Abaqus and the in-house code, Presto. In addition, communication has continued in defining the scope and schedule for this task. Dr. Akin visited the NRC in December for the kick-off meeting of this project, where an initial schedule and scope were finalized. In addition, a contract was set up with Robert Dameron (from Moffat & Nichol) during this reporting period to continue work on the development of the full three dimensional model of the PCCV in Abaqus for use in this task. In addition, work has begun in preparation for the WGIAGE Expert Meeting in April of 2011.

TASK 2 Comparison of Post-Tensioning and In-Service Inspection Methods

No work was done during this reporting period.

TASK 3 Assessment of Durability and Long-Term Corrosion Protection

No work was done during this reporting period.

B. PROPERTY ACQUIRED

No property meeting current DOE tracking criteria was purchased for this project. Therefore, this constitutes a **NEGATIVE** Property Report.

TRAVEL

No travel was completed during this reporting period.

ANTICIPATED OR ENCOUNTERED PROBLEM AREAS

There are no anticipated or encountered technical problems during this reporting period.

PLANS FOR THE NEXT REPORTING PERIOD

SNL will continue working with the NASTRAN model provided by the NRC and the literature review. In addition, Moffat & Nichol will continue work on the development of the Abaqus model needed in Task 1. Presentations will be finalized for the April WGIAGE Expert Meeting.

VARIANCE ANALYSIS

Prior to acceptance of the 189, no variance analysis is possible.

FINANCIAL STATUS

The financial status, shown on the attached pages, is automatically generated from data provided by the Sandia Financial Information System.

The burdened costs for February were \$11,235.49. The uncosted project balance at the end of February is \$79,924.64, and the uncommitted amount is \$18,924.66.

MLSR FINANCIAL STATUS REPORT
Month of: February, 2011 (FY2011)

JCN: V6186

PI: AKIN, LILI

Date Printed: 3/14/2011

| | | | | | |
|--|----------------------------------|-----------------------|-----------|------------------------|-----------|
| Job Code #: | V6186 | SNL Project #: | 152798 | NRC Office: | RES/DE |
| Title: | STUDY ON POST-TENSIONING METHODS | | | | |
| Financial Reporting Period: | From | 01/29/2011 | To | 02/25/2011 | |
| Project Period of Performance (from Form 189) | Proj. Start Date: | 9/15/2010 | | Proj. End Date: | 9/30/2012 |

| | | |
|---|----|------------|
| Total Project Ceiling Amount: | \$ | 407,000.00 |
| Total Funds Obligated to Date: | \$ | 111,115.00 |
| Total Current Fiscal Year Ceiling Amount: | \$ | 156,400.00 |
| Total Funds Obligated Current Fiscal Year: | \$ | 0.00 |

| | Current Month Hours | Fiscal Year to Date Hours | Cumulative (1) Project To Date Hours |
|------------------------------------|----------------------------|----------------------------------|---|
| DIRECT STAFF EFFORT (Hours) | 16.75 | 141.25 | 141.25 |

Current Cost Incurred Status to the Actual Dollar

| | Current Month (\$) | FY2011 to Date (\$) | Cumulative Project to Date |
|--|---------------------------|----------------------------|-----------------------------------|
| Burdened Labor | 1,584.95 | 17,506.05 | 17,506.05 |
| Burdened Chargebacks (1) | 1,157.82 | 3,371.88 | 3,371.88 |
| Burdened Travel | 0.00 | 911.25 | 911.25 |
| Burdened Purchases (2) | 8,492.72 | 8,492.72 | 8,492.72 |
| TOTAL BURDENED COSTS (FY00 FORWARD)* | <u>11,235.49</u> | <u>30,281.90</u> | <u>30,281.90</u> |
| DOE Added Factor | 337.06 | 908.46 | 908.46 |
| Total Costs (includes DOE Added Factor) | <u>11,572.55</u> | <u>31,190.36</u> | <u>31,190.36</u> |

*BURDENS: (Included in "Total Burdened Costs") This includes ALL Corporate Assessments (GA), plus labor loads.

| | | | |
|--|----------|----------|----------|
| | 1,652.00 | 9,261.00 | 9,261.39 |
|--|----------|----------|----------|

| | | |
|---------------------------------|-------------|--|
| Total Uncosted Amount | \$79,924.64 | Does not include commitments listed below. |
| FY11 Commitments | \$60,999.98 | Includes Current Fiscal Year Service Orders, Purchase Requests, and Purchase Orders with all SNL burdens, and DOE Added Factor. |
| Total Uncommitted Amount | \$18,924.66 | Amount represents uncommitted funding remaining on the project. |

Percentage of available cumulative funds costed 28%
Percentage of available current fiscal year funds costed 28%

(1) Includes all cost transfers or adjustments and all services.
(2) Includes all subcontractor and materials purchases.
Portion of Total Costs charged to Foreign Funds is not available in SNL system. If applicable, it will be covered in Financial Status section of the narrative portion of this report.

MLSR FINANCIAL STATUS REPORT
Month of: February, 2011 (FY2011)

V6186

152798

AKIN, LILI

3/14/2011

February, 2011 (FY 2011)
Cost Totals by Project Task

NOT ABLE TO AUTOMATE FROM THE SNL FINANCIAL SYSTEM.

Monthly Spending Plan Update
(See 189 Page 3 Format)

THIS FORM WILL BE ATTACHED TO THE INITIAL MLSR, AND WHEN CUMULATIVE-TO-DATE COSTS
VARY BY 20% OR MORE FROM PLANNED SPENDING.

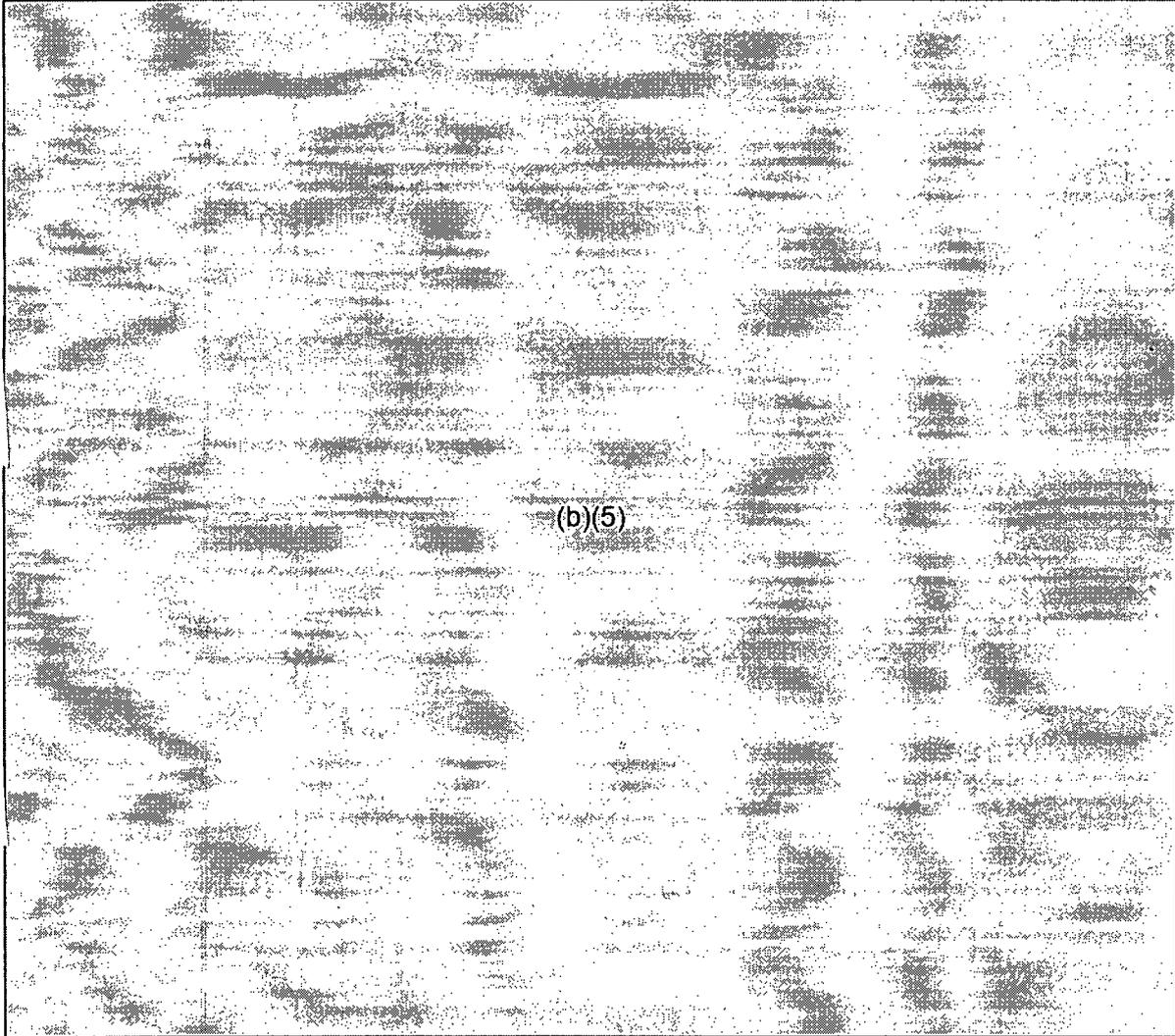
Overall Funding Status (in actual dollars)

| | |
|--|-------------------|
| Prior FY Carryover | 111,115.00 |
| FY 11 Project Funds Required (from 189) | 65,000.00 |
| FY 11 Funds Received to Date | 0.00 |
| FY 11 Funding Balance Needed | 65,000.00 |
| Projected Carryover to Next FY | 19,700.00 |
| Total Estimated Project Amount | 407,000.00 |
| Total Project Cumulative Amount Obligated | 111,115.00 |
| Total Project Balance Needed | 295,885.00 |
| Total Project Cumulative Amount Costed | 31,190.36 |

From: Collins, Timothy
To: Gratton, Christopher; Howe, Allen; Tinkler, Charles; Scott, Michael
Cc: Bahadur, Sher; Boska, John; Ruland, William
Subject: RE: Help with Commission brief
Date: Thursday, March 17, 2011 5:54:38 PM

Chris,

Here are some high level bullets on defense in depth enhancements since TMI:



From: Gratton, Christopher
Sent: Thursday, March 17, 2011 4:28 PM
To: Howe, Allen; Collins, Timothy; Tinkler, Charles; Scott, Michael
Cc: Bahadur, Sher; Boska, John; Ruland, William
Subject: RE: Help with Commission brief

What we are looking for is talking points. High level points to support the slide bullet. If you need a copy of the current version of the slides (they are evolving), let me know. The

AS/204

current version as of 4 pm is attached

CG

From: Howe, Allen
Sent: Thursday, March 17, 2011 4:23 PM
To: Collins, Timothy; Tinkler, Charles; Scott, Michael
Cc: Bahadur, Sher; Gratton, Christopher; Boska, John; Ruland, William
Subject: RE: Help with Commission brief

Tim – first of all thanks. Can you get with Chris to talk specifics?

Mike/Scott –

(b)(5)

Thanks - Allen

From: Collins, Timothy
Sent: Thursday, March 17, 2011 4:19 PM
To: Howe, Allen; Ruland, William
Cc: Bahadur, Sher
Subject: RE: Help with Commission brief

I can help with Mark I containments improvements ... we probably need some help from RES (Charlie Tinkler most likely) for SAMGs

From: Howe, Allen
Sent: Thursday, March 17, 2011 4:05 PM
To: Ruland, William; Collins, Timothy
Cc: Bahadur, Sher
Subject: Help with Commission brief
Importance: High

Bill – need someone who can work with Chris Gratton/John Boska on one line talking points for Bill Borchardt. Topic areas are SAMGs and Mark 1 containment improvements.

Thanks - Allen

From: Lund, Louise
To: Rutland, William; Lee, Samson
Subject: timeframe
Date: Thursday, March 17, 2011 5:56:45 PM

I just heard from Debbie DeMarco in NMSS about what time frame she needs the CNWRA contract info

(b)(5)

Hope this helps...

AS/205

From: Beasley, Benjamin
To: Burnell, Scott
Cc: Covne, Kevin; Stutzke, Martin; Ake, Jon; Kauffman, John
Subject: Suggested press release on MSNBC article
Date: Thursday, March 17, 2011 5:57:35 PM

Scott,

We (RES) supported Region 1 this afternoon on a conference call with the county executives and state officials for the four counties around Indian Point. The county officials strongly encouraged us to respond to the MSNBC article. Thus, we have drafted a press release for your consideration.

Please let me know if you use this and if we can be of any other assistance.

Regards,
Ben Beasley

Draft Press Release Responding to MSNBC Article

(b)(5)

AS/206

From: Coyne, Kevin
To: Scott, Michael; Wagner, Katie
Cc: Dion, Jeanne; Santiago, Patricia
Subject: RE: Eric Leeds Remarks.docx
Date: Thursday, March 17, 2011 5:59:00 PM

Mike –

(b)(5)

Kevin

From: Scott, Michael
Sent: Thursday, March 17, 2011 5:47 PM
To: Wagner, Katie
Cc: Dion, Jeanne; Santiago, Patricia; Coyne, Kevin
Subject: FW: Eric Leeds Remarks.docx
Importance: High

Katie: Here is the item I noted to you earlier today I have asked around and we believe the best source of info on SAMGs is Donnie Harrison in NRR.

Regarding severe accident research, NRC is developing methods for so-called "Level 3" PRAs, that include evaluation of offsite consequences. In addition, NRC is sponsoring a separate project to evaluate, using state-of-the-art tools, the public safety consequences of a severe accident at two sample plants..

Suggest that DRA validate or change the words regarding L-3. Hence I am copying Kevin Coyne.

Mike

From: Dion, Jeanne
Sent: Thursday, March 17, 2011 3:42 PM
To: Scott, Michael
Subject: FW: Eric Leeds Remarks.docx
Importance: High

Joe Giitter requested RES review this Q&A.

He specifically asked for our insights in SAMG and our Research in Severe accidents. He also specifically asked about the GI on mark 1 containments and about verifying that all Mark 1 have hardened ventilation.

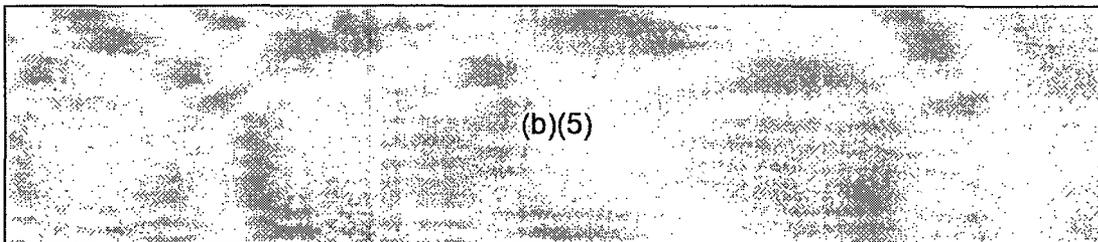
Comments are requested back to NRR ASAP.

Thanks,
Jeanne

AS/207

From: Giitter, Joseph
Sent: Thursday, March 17, 2011 3:34 PM
To: Dion, Jeanne
Subject: FW: Eric Leeds Remarks.docx

From: Giitter, Joseph
Sent: Thursday, March 17, 2011 3:03 PM
To: Nelson, Robert
Cc: Howe, Allen
Subject: Eric Leeds Remarks.docx



From: [Schwarz, Sherry](#)
To: [Gallagher, Johanna](#); [Johns, Nancy](#) ~
Cc: [Leeds, Eric](#)
Subject: NRR's 2010 Succession Planning List Updated and Marked 03 04 2011.XLS
Date: Thursday, March 17, 2011 6:25:53 PM
Attachments: [2010 Succession Planning List Updated and Marked 03 04 2011.XLS](#)

Hi Johanna and Nancy,

I am resending the attached, as one changed block needed to be marked in red. Sorry.

Sherry G. Schwarz
Administrative Assistant to Eric J. Leeds
Office of Nuclear Reactor Regulation
301-415-1270
Location: O13/D15
Mailstop: O13/H16M
Sherry.Schwarz@NRC.gov

AS/208

3/4/2011

2010 SES SUCCESSION PLANNING LIST (UPDATED 03/04/2011)
READINESS FOR NEXT LEVEL
MASTER LIST - INCLUDES ERB MEMBERS AND OTHER OEDO OFFICE DIRECTORS

NOTE: REMOVE FIRST GROUP OF POSITIONS FOR ERB SUCCESSION PLANNING MEETING

■ = Changes to the Succession Planning List Since March 2010

● = Executives Who Have Moved Up a Level Since March 2010

(b)(6)

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

(b)(6)

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|-----------|-----------------|---|---|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|-----------|-----------------|---|---|
|--|------|--------|-----------|-----------------|---|---|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|-----------|-----------------|---|---|
|--|------|--------|-----------|-----------------|---|---|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

(b)(6)

From: [Salley, MarkHenry](#)
To: [Coyne, Kevin](#)
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)
Date: Thursday, March 17, 2011 6:29:12 PM

Got it!

Many Thanks!

From: Coyne, Kevin
Sent: Thursday, March 17, 2011 6:28 PM
To: Salley, MarkHenry; Coe, Doug
Cc: Correia, Richard; Lui, Christiana; Hudson, Daniel
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

Mark –

(b)(5)

Kevin

From: Salley, MarkHenry
Sent: Thursday, March 17, 2011 6:18 PM
To: Coe, Doug; Coyne, Kevin; Lui, Christiana
Cc: Correia, Richard
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

(b)(5)

MHS

From: Coe, Doug
Sent: Thursday, March 17, 2011 5:54 PM
To: Coyne, Kevin; Lui, Christiana
Cc: Correia, Richard; Salley, MarkHenry
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

Kevin,

AS/209

(b)(5)

Doug

From: Coyne, Kevin
Sent: Thursday, March 17, 2011 3:31 PM
To: Spencer, Ruth
Cc: Coe, Doug; Correia, Richard; Hudson, Daniel; Ibarra, Jose; Stout, Kathleen; Kuritzky, Alan
Subject: RE: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)

Ruth –

(b)(5)

So... we'll do what we can today and tomorrow, but Doug is going to have to review it Monday and help with the FTE issues. We'll aim for Monday noon, but even that might be optimistic.

(b)(5)

Thanks again for your help in sorting this out –

Kevin

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 2:41 PM
To: Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stout, Kathleen; Grancorvitz, Teresa; Valentin, Andrea
Subject: More info: ACTION Operating Reactors; NRR requests a response by MONDAY (please give us info by Noon)
Importance: High

Hi all,

(b)(5)

(b)(5)

We sincerely apologize for the timing and short turnaround on this request.

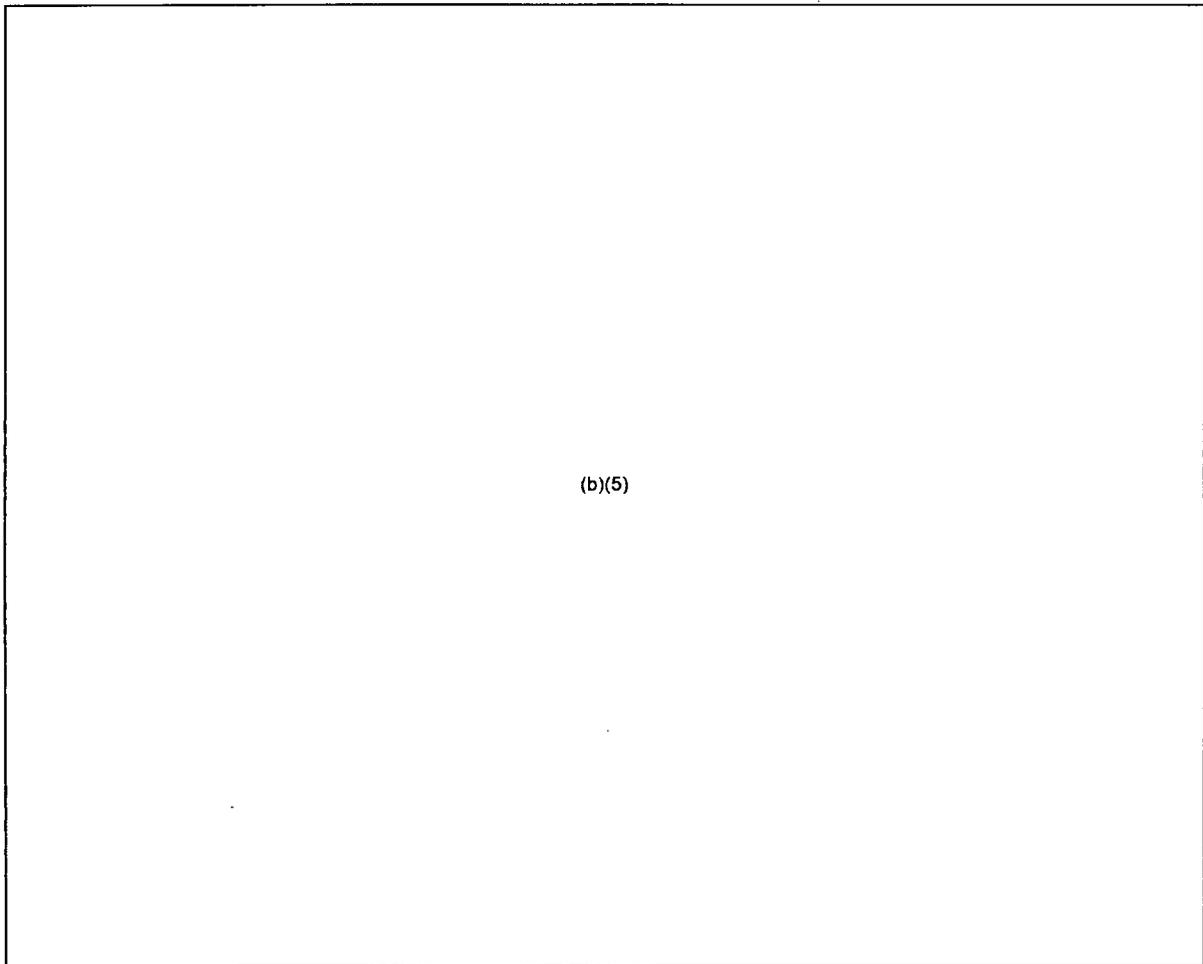
Ruth and Kathleen

Ruth Spencer, NRC/RES, 301 251 7921

From: Spencer, Ruth
Sent: Thursday, March 17, 2011 10:52 AM
To: Armstrong, Kenneth; Rivera-Lugo, Richard; Hudson, Daniel; Ibarra, Jose
Cc: Case, Michael; Richards, Stuart; Gibson, Kathy; Scott, Michael; Coe, Doug; Coyne, Kevin; Stout, Kathleen; Grancorvitz, Teresa; Valentin, Andrea
Subject: ACTION Operating Reactors; NRR requests a response by COB
Importance: High

Good morning,

We are trying to get greater clarity from NRR on this task, but we wanted to tell you what we know right now.



Let us know if you have additional questions.

<< File: Projects greater than 200k for Op Rx.xlsx >> << File: Resources for NRR-Low Priority User Need Work.xlsx >>

Thanks,

Ruth

Ruth Spencer, NRC/RES
Mailstop C6-D20M, Washington, DC 20555-0001

Phone 301 251 7921 FAX 301 251 7426

eMail: Ruth.Spencer@NRC.GOV

Office Location: C06-D19



From: Santiago, Patricia
To: Coyne, Kevin
Cc: Gibson, Kathy; Scott, Michael
Subject: RE: SECY PRA/SOARCA OCM Brief
Date: Thursday, March 17, 2011 6:53:19 PM

That's good
Thanks Kevin

From: Coyne, Kevin
Sent: Thursday, March 17, 2011 6:48 PM
To: Santiago, Patricia
Cc: Gibson, Kathy; Scott, Michael
Subject: FW: SECY PRA/SOARCA OCM Brief

Pat –

See below response from Jim Anderson... They will make an attempt, but it seems like it's largely out of our hands. It does look like there may be other factors at work that may end up pushing it out further though...

Kevin

From: Andersen, James
Sent: Thursday, March 17, 2011 9:10 AM
To: Coyne, Kevin
Cc: Coe, Doug; Correia, Richard; Bowman, Gregory
Subject: RE: SECY PRA/SOARCA OCM Brief

The Commission decides on the date, we can provide a recommendation. During the pre-agenda discussions with the Chairman's office,

(b)(5)

Jim A.

From: Coyne, Kevin
Sent: Wednesday, March 16, 2011 6:33 PM
To: Bowman, Gregory; Andersen, James
Cc: Coe, Doug; Correia, Richard
Subject: FW: SECY PRA/SOARCA OCM Brief

Greg, Jim –

(b)(5)

AS/210

Thanks for any help you can provide –

Kevin

From: Santiago, Patricia
Sent: Wednesday, March 16, 2011 6:09 PM
To: Coyne, Kevin
Cc: Gibson, Kathy; Scott, Michael
Subject: SECY PRA/SOARCA OCM Brief

Kevin,

I missed you and wanted to coordinate a proposed date for the briefing. If we can have it the first 2 weeks of August, we believe the SOARCA documents will be public. Please let me know if you have another proposal.

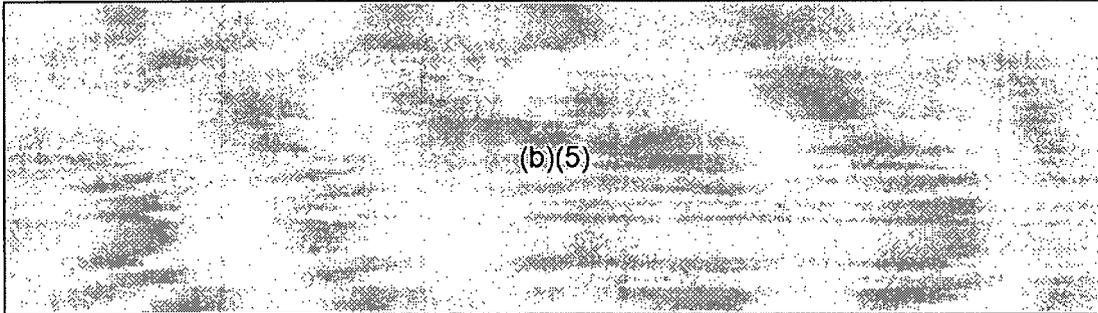
Thanks,

Pat

Patricia A. Santiago
Chief, Special Projects Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research
Phone- 301-251-7982
Fax- 301-251-7426
Patricia.Santiago@nrc.gov

From: Covne, Kevin
To: Santiago, Patricia
Cc: Helton, Donald; Kuritzky, Alan; Scott, Michael; Coe, Doug; Gibson, Kathy
Subject: Severe Accident Research in DRA
Date: Thursday, March 17, 2011 6:58:00 PM

Pat –



Please let me know if you need anything additional, have questions, or need additional support with Commission meeting slides.

Kevin

AS/211

From: [Schwarz, Sherry](#)
To: [Gallagher, Johanna](#); [Johns, Nancy](#)
Cc: [Leeds, Eric](#)
Subject: 2010 Succession Planning List Updated and Marked 03 04 2011.XLS
Date: Thursday, March 17, 2011 6:14:09 PM
Attachments: [2010 Succession Planning List Updated and Marked 03 04 2011.XLS](#)

Good afternoon Johanna and Nancy,

As promised, attached you will find NRR's completed 2010 SES Succession Planning List. Let me know if I can provide you with any further information. Thanks.

Sherry G. Schwarz
Administrative Assistant to Eric J. Leeds
Office of Nuclear Reactor Regulation
301-415-1270
Location: O13/D15
Mailstop: O13/H16M
Sherry.Schwarz@NRC.gov

AS/2/12

3/4/2011

2010 SES SUCCESSION PLANNING LIST (UPDATED 03/04/2011)
READINESS FOR NEXT LEVEL
MASTER LIST - INCLUDES ERB MEMBERS AND OTHER OEDO OFFICE DIRECTORS

NOTE: REMOVE FIRST GROUP OF POSITIONS FOR ERB SUCCESSION PLANNING MEETING

-  = Changes to the Succession Planning List Since March 2010
-  = Executives Who Have Moved Up a Level Since March 2010

CURRENT EDO-LEVEL OFFICE DIRECTORS AND ERB MEMBERS (As of 03/04/2011)

(b)(6)

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|-----------|-----------------|---|---|
|--|------|--------|-----------|-----------------|---|---|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|-----------|-----------------|---|---|
|--|------|--------|-----------|-----------------|---|---|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|-----------|-----------------|---|---|
|--|------|--------|-----------|-----------------|---|---|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--|------|--------|--------------|-----------------|--|--|
|--|------|--------|--------------|-----------------|--|--|

| | | | | | | |
|--------|--|--|--|--|--|--|
| (b)(6) | | | | | | |
|--------|--|--|--|--|--|--|

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

| | Name | Office | Ready Now | Program Area(s) | Development and/or Experience Needed/Comments | Completed Activities and Actions (If Known) |
|--------|------|--------|--------------|-----------------|--|--|
| (b)(6) | | | | | | |

Withhold All- Ex 5

From: Santiago, Patricia
To: Scott, Michael; Dion, Jeanne
Cc: Gibson, Kathy; Armstrong, Kenneth; Coyne, Kevin
Subject: Q&A to support OCM Brief on Japan
Date: Thursday, March 17, 2011 7:24:53 PM
Attachments: Q&A on severa accident research.docx

(b)(5)

If NRR continues to need support on SAMGs, I will talk to Tina at 9am. The last set of Qs&As from NRR did have a sentence in the document.

Thanks,

Pat

Patricia A. Santiago
Chief, Special Projects Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research
Phone- 301-251-7982
Fax- 301-251-7426
Patricia.Santiago@nrc.gov

AS/213

(b)(5)

Withhold All - Ex 5

From: Coyne, Kevin
To: Santiago, Patricia; Scott, Michael; Dion, Jeanne
Cc: Gibson, Kathy; Armstrong, Kenneth
Subject: RE: Q&A to support OCM Brief on Japan
Date: Thursday, March 17, 2011 7:30:00 PM

Pat -

(b)(5)

Kevin

From: Santiago, Patricia
Sent: Thursday, March 17, 2011 7:25 PM
To: Scott, Michael; Dion, Jeanne
Cc: Gibson, Kathy; Armstrong, Kenneth; Coyne, Kevin
Subject: Q&A to support OCM Brief on Japan

(b)(5)

If NRR continues to need support on SAMGs, I will talk to Tina at 9am. The last set of Q&As from NRR did have a sentence in the document.

Thanks,

Pat

Patricia A. Santiago
Chief, Special Projects Branch
Division of Systems Analysis
Office of Nuclear Regulatory Research
Phone- 301-251-7982
Fax- 301-251-7426
Patricia.Santiago@nrc.gov

AS/2/14