

November 22, 2002

MEMORANDUM TO: Chairman Meserve

FROM: William D. Travers */RA/*  
Executive Director for Operations

SUBJECT: OCTOBER 2002 UPDATE OF THE STAFF'S RESPONSE TO THE  
CHAIRMAN'S TASKING MEMORANDUM

Attached for your information is the October 2002 update of the staff's planned actions to address the issues raised during the July 30, 1998, hearing before the Senate Subcommittee on Clean Air and Wetlands, Private Property, and Nuclear Safety, and the July 17, 1998, Commission meeting with stakeholders. Significant additions to and changes from the September 2002 update are highlighted by redline and strikeout markings.

In October 2002, the staff completed several milestones, including the review of the Grand Gulf 1.7 percent power uprate request; the development of frequencies for integrated pressurized thermal shock risk estimates; providing the Commission with policy recommendations on issues associated with modular and merchant plants; the issuance of the Part 71 safety evaluation report and certificate of compliance for the NAC-UMS cask review; and providing a final Part 74 rulemaking package to the Commission.

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In addition to the NRC staff activities described in the Chairman's Tasking Memorandum, the staff continues its efforts in responding to the reactor vessel head degradation at Davis-Besse. These activities include the monitoring of licensee activities by the NRC special oversight panel, the issuance of a new Bulletin by the NRC staff to address interim vessel head penetration inspection methods and frequencies, and the NRC Task Force conducting an independent evaluation of the NRC's regulatory processes.

Attachment: As stated

cc: Commissioner Dicus  
Commissioner Diaz  
Commissioner McGaffigan  
Commissioner Merrifield  
OGC  
CFO  
SECY

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***STAFF RESPONSE TO TASKING MEMORANDUM AND STAKEHOLDER CONCERNS***

**October 31, 2002**

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**I. Topic Area: Risk-Informed and Performance-Based Regulation****A. Risk-Informed Regulatory Initiatives****1) Risk-Informing the Scope of Certain Part 50 Requirements (Option 2)**

SES Manager: Christopher Grimes, Program Director, RPRP/DRIP/NRR

Objective: To modify the scope of special treatment requirements to be risk-informed in accordance with the rulemaking plan of SECY-99-256 and its associated SRM of January 31, 2000.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Commission paper assessing Advanced Notice of Proposed Rulemaking (ANPR) comments and other issues (199900061) (SECY-00-0194)	9/7/00C	T. Bergman, DRIP
2. Nuclear Energy Institute (NEI) complete draft guidelines submitted for staff endorsement	1/19/01C	N/A
3. Initiate pilot program	3/01C	M. Shuaibi, DLPM
4. Provide final round of comments to NEI on NEI 00-04	2/08/02C	T. Reed, DRIP
5. Submit proposed rulemaking to Commission (199900061) [SECY-02-0176]	09/30/02C	T. Reed, DRIP

<b>Through June 2003</b>		
Milestone	Date	Lead
6. Provide proposed rule to House and Senate Appropriations Committees one month after Commission approval (199900061)	SRM + 1 month	T. Reed, DRIP

<b>Beyond June 2003</b>		
Milestone	Date	Lead
7. Submit final rulemaking to Commission (199900061)	milestone 6 + 15 mos	T. Reed, DRIP
8. Final rule to Congressional Appropriations Committees one month after Commission approval (199900061)	SRM + 1 month	T. Reed, DRIP

Comments:

## **I. Topic Area: Risk-Informed and Performance-Based Regulation**

### **A. Risk-Informed Regulatory Initiatives**

#### **2) Risk-Informed Technical Requirements in 10 CFR Part 50 (Option 3)**

SES Manager: Mark Cunningham, Branch Chief, PRAB/DRAA/RES

**Objective:** To identify and evaluate technical requirements of 10 CFR Part 50 that are candidates to be risk-informed and then to recommend modifications to Part 50, consistent with Option 3 of SECY-98-300 and its associated SRM dated June 8, 1999. The goal is for the technical requirements of Part 50 to be commensurate with their contribution to public health and safety such that safety is maintained without unnecessary regulatory burden.

<b>Prior to December 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
1. Identify preliminary set of proposed changes and recommendations (199900062)	9/14/00C	M. Drouin, RES
2. Status report to Commission (199900062)	2/05/01C	M. Drouin, RES
3. Feasibility study and recommendations on risk-informing ECCS (10 CFR 50.46) (199900062) (SECY-01-0133)	7/23/01C	M. Drouin, RES
4. Recommendations on risk informing requirements for combustible gas control systems (10 CFR 50.44) (200100003)	8/23/01C	S. Magruder, NRR
5. Plan and schedule for completion of Option 3 (199900062) (SECY-01-0133)	7/23/01C	M. Drouin, RES
6. Submit proposed 10 CFR 50.44 rulemaking to the Commission (200100003)	5/13/02C	A. Markley, NRR/DRIP
7. Complete technical work on ECCS reliability requirements for 50.46	07/31/02C	M. Drouin, RES
8. Prepare Research Information Letter to provide technical basis for revising Reg. Guide 1.157 to incorporate performance-based ECCS evaluation model and acceptance criteria for 50.46	6/20/02C	R. Meyer, RES



Through June 2003		
Milestone	Date	Lead
9. Conduct a public meeting to discuss the framework for risk-informing the technical requirements of 10 CFR Part 50 and options for future activities associated with risk-informing 10 CFR Part 50.	12/02	A. Kuritzky, RES

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

**I. Topic Area: Risk-Informed and Performance-Based Regulation****B. Develop Standards for the Application of Risk-informed, Performance-based Regulation in Conjunction with National Standards Committees**

SES Manager: Mark Cunningham, Branch Chief, PRAB/DRAA/RES

Objective: To make efficient use of agency resources by actively participating in the consensus standards process to develop standards for PRA that support the implementation of risk-informed regulation in a manner that maintains safety.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Draft PRA standard on external hazards (e.g., seismic) released by the American Nuclear Society (ANS) for public comment.	01/26/01C	M. Drouin, RES
2. Final fire PRA standard issued by National Fire Protection Association (NFPA).	04/01/01C	N. Siu, RES
3. Review and provide NRC comments on ANS draft PRA standard on external hazards.	05/17/01C	M. Drouin, RES
4. Final PRA standard on internal events issued by ASME	04/05/02C	M. Drouin, RES

<b>Through June 2003</b>		
5. Draft PRA standard on Low Power and Shutdown (LPSD) issued by ANS for public comment.	12/02	M. Drouin, RES
6. Final ANS standard on external hazards completed.	12/02	M. Drouin, RES
7. Final PRA standard on LPSD published by ANS	06/03	M. Drouin, RES

<b>Beyond June 2003</b>		
Milestone	Date	Lead
None		

Comments:

None

**I. Topic Area: Risk-Informed and Performance-Based Regulation****C. Reevaluate the Technical Basis for the Pressurized Thermal Shock Rule (10 CFR 50.61)**

SES Manager: Michael Mayfield, Director DET/RES

**Objective:** To develop the technical basis for a risk-informed revision to the pressurized thermal shock (PTS) rule, 10 CFR 50.61, screening criteria by applying recent advances in probabilistic reactor pressure vessel (RPV) integrity analysis, methods for calculating the thermal-hydraulics (TH) response of a PWR to potential PTS loading transients, and application of PRA results in identifying key operational transients that could affect the RPV.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Develop revised PTS risk acceptance criteria (199900115) (SECY-00-0140)	6/23/00C	N. Siu, RES
2. Present details of revised PTS methodology to ACRS	1/15-16/02C	E. Hackett, RES
3. Publish NUREG/CR report describing a generic flaw density and size distribution	6/28/02C	D. Jackson, RES
4. Develop frequencies for integrated PTS risk estimate for study plants.	10/31/02C	H. Woods, RES
5. Complete analyses and draft technical basis for revision of PTS rule.	11/02	M. Kirk, RES

<b>Through June 2003</b>		
Milestone	Date	Lead
6. Present the technical basis for proposed changes in 10 CFR 50.61 PTS screening criteria to ACRS	12/02	S. Malik, RES
7. Present the technical basis for proposed changes in 10 CFR 50.61 PTS screening criteria to NRR for consideration of potential rulemaking.	12/02	N. Chokshi, RES

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

3. The complex three-step process required to determine the risk estimates has been more difficult than anticipated. Extensive revisions to computer codes have been required to better address human factor elements. Unanticipated grouping of risk sequences has been necessary for use in the available computer codes. Additional interactions with licensees have been needed to assure model and data accuracy. To date, estimates for three of the four plants have been generated and are in various review stages. Efforts on the fourth plant have begun. The milestone schedule has been readjusted

## **II. Topic Area: Reactor Inspection and Enforcement**

### **A. Enforcement Program Initiatives**

SES Manager: Frank J. Congel, Director, Office of Enforcement

Objective(s): Develop and implement improvements to the Enforcement program to increase efficiency and effectiveness, reduce unnecessary regulatory burden, and be aligned with the reactor oversight process.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Develop Enforcement Policy for the new reactor oversight process (200000022)	3/9/00C	B. Westreich, OE
2. Publish Revised Enforcement Policy incorporating Reactor Oversight changes	5/1/00C	R. Pedersen, OE
3. Develop 10 CFR 50.59 Enforcement Guidance	5/1/00C	T. Reis, OE
4. Revise Enforcement Manual to incorporate Reactor Oversight Program changes.	6/1/00C	R. Pedersen, OE
5. Provide Commission with Draft Recommendations of Discrimination Task Group. (200000090)	5/9/01C	B. Westreich, OE
6. Provide recommendation on Enforcement Program following first year of ROP implementation (200000060) (SECY-01-0114)	6/25/01C	J. Luehman, OE
7. Draft Staff Recommendation to Commission regarding use of Alternative Dispute Resolution (ADR) in Enforcement (200000070) (SECY-01-0176)	9/20/01C	J. Luehman, OE
8. Discrimination Task Group Issues final report to EDO (200000090)	4/26/02C	B. Westreich, OE
9. Inform the Commission of the status of its review on the use of Alternative Dispute Resolution (ADR) in the NRC's Enforcement Program, including a summary of public comments on the issue and plans for providing a final recommendation (200000070)	6/4/02C	J. Lubinski, OE C. Cameron, OGC
10. Recommendations regarding the Discrimination Task Group Report to the Commission (200000090) [SECY-02-0166]	9/12/02C	H. Nieh, OEDO

Prior to December 2002		
Milestone	Date	Lead
11. Provide the Commission a proposed pilot program for approval or provide an alternative recommendation regarding the use of ADR (200000070)	11/15/02 12/20/02	B. Westreich, OE

Through June 2003		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

10. The EDO directed that a senior management group review the final DTG report. This review will serve as a basis for developing the EDO recommendations regarding the DTG report for the Commission. The senior management review team completed its review on June 14, 2002.
11. The staff plans to re-engage stakeholders through the issuance of a FRN requesting public comments has met with stakeholders at various locations throughout the country and internal stakeholders in the regions and program offices. Written comments on its plans to develop a pilot program and may hold public meetings or workshops have also been received. The staff is seeking stakeholder input in order to support development of the proposed pilot program or alternative recommendation currently developing recommendations for the implementation of the pilot use of ADR.

**III. Topic Area: Reactor Oversight****A. Reactor Oversight Process**

SES Manager: Cynthia A. Carpenter , IIPB/DIPM/NRR

Program Managers: Mark A. Satorius, IIPB/DIPM/NRR  
Douglas H. Coe, IIPB/DIPM/NRR

Objective: To continue to improve and implement a more objective, risk informed, efficient, and effective Reactor Oversight Process (ROP). The ROP will continue to require close scrutiny, oversight, and actions to develop and enhance processes such as Inspection, Significance Determination Process, Performance Indicators and Thresholds, Assessment, and Enforcement.

Coordination: Issue III.A. "Reactor Oversight Process," requires close coordination and integration of specific tasks by the NRC staff. Responsible IIPB project managers are coordinating these tasks including assessing the impact of proposed program changes with other ongoing activities, to ensure that the overall objectives for each project are achieved. Examples of these activities include intra-project task force participation, workshop attendance, concurrent review of projects and periodic senior management briefings.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1 . Provide status on SRM items with the annual ROP self-assessment results (200100034)	4/03/02C	M. Johnson, DIPM
2 . Issue SECY paper on the Industry Trends Program (200100034)	4/01/02C	T. Boyce, DIPM
3 . Issue annual SECY paper to the Commission on the Accident Sequence Precursor (ASP) program (199200101)	3/08/02C	P. Baranowsky, RES
4 . Conduct Agency Action Review Meeting	4/02C	C. Carpenter, DIPM

<b>Through June 2003</b>		
Milestone	Date	Lead
5 . Conduct end-of-cycle review meetings for each plant	02/03	Regional Administrators

<b>Through June 2003</b>		
6 . Issue SECY paper on the Industry Trends Program	3/31/03	T. Boyce, DIPM
7 . Issue SECY paper on the annual ROP self-assessment	3/31/03	C. Carpenter, DIPM
8 . Conduct Agency Action Review Meeting	4/03	C. Carpenter, DIPM
9 . Conduct public meetings at all operating sites to discuss the results of plant performance	4/03	Regional Administrators
10 . Brief Commission on the results of annual ROP self-assessment and Industry Trends Program	5/03	C. Carpenter, DIPM

<b>Beyond June 2003</b>		
Milestone	Date	Lead
None		

Comments:



**IV. Topic Area: Reactor Licensing and Oversight****A. Improved Standard Technical Specifications (iSTS)**

SES Manager: William Beckner, Program Director, RORP/DRIP/NRR

Objective: Conversion of facility technical specifications to the improved standard technical specifications (iSTS) will promote more consistent interpretation and application of technical specification requirements, thereby reducing the need for interpretations and frequent changes to the technical specifications.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Issue iSTS Amendment for NMP-2	2/15/00C	R. Tjader, DRIP
2. Issue iSTS Amendment for IP-3	2/28/01C	R. Tjader, DRIP
3. Issue iSTS Amendment for LaSalle	3/01/01C	C. Schulten, DRIP
4. Issue iSTS Amendment for Quad Cities	3/01/01C	C. Schulten, DRIP
5. Issue iSTS Amendment for Dresden	3/01/01C	C. Schulten, DRIP
6. Issue iSTS Amendment for Point Beach	8/08/01C	C. Harbuck, DRIP
7. Issue iSTS Amendment for ANO Unit 1	10/29/01C	C. Harbuck, DRIP
8. Issue iSTS Amendment for North Anna	4/5/02C	T. Le, DRIP
9. Issue iSTS Amendment for Prairie Island	7/26/02C	C. Schulten, DRIP
10. Issue iSTS Amendment for FitzPatrick	7/3/02C	T. Le, DRIP

<b>Through June 2003</b>		
Milestone	Date	Lead
11. Indian Point 2	5/30/03	T. Le, DRIP

<b>Beyond June 2003</b>		
Milestone	Date	Lead
None		

Comments:

#### IV. Topic Area: Reactor Licensing and Oversight

##### B. Potassium Iodide (KI) Rule Implementation

SES Manager: Theodore Quay, Branch Chief, IEHB/DIPM/NRR

Objective: To implement the Commission's decision regarding the consideration of KI as a supplemental protective measure for the general public after a severe reactor accident. In addition, to work with other Federal agencies to revise the Federal policy on the use of KI in the event of a severe nuclear power plant emergency and to establish procedures, processes, and guidance for KI program implementation.

Prior to December 2002		
Milestone	Date	Lead
1. Publish Final Rule (199800173) (NRR)	1/19/01C	M. Jamgochian, DRIP
2. Provide draft NUREG-1633 to Commission (200100005) (NRR)	5/7/02C	K. Halvey Gibson, DIPM
3. Provide draft public information brochure on use of KI to Commission for review (200100005) (NRR)	5/7/02C	K. Halvey Gibson, DIPM
4. Provide final public information brochure on use of KI to FEMA for publication	TBD	K. Halvey Gibson, DIPM
5. Develop procedures, processes and guidance for KI program implementation	11/21/01C	K. Halvey Gibson, DIPM
6. Provide draft KI program implementation procedures, processes and guidance to Commission for review (20010020) (NRR)	11/21/01C	K. Halvey Gibson, DIPM
7. Provide final KI program implementation procedures, processes and guidance to FEMA for publication	12/18/01C	K. Halvey Gibson, DIPM
8. Develop final KI Federal policy FRN reflecting FRPCC review and send to Commission (199700193)	11/21/01C	K. Halvey Gibson, DIPM
9. Publish KI Federal Policy FRN	1/10/02C	K. Halvey Gibson, DIPM
10. Post bid for KI procurement	12/21/01C	DCPM/K. Halvey Gibson
11. Award contract for KI	2/1/02C	K. Halvey Gibson/DCPM

Through June 2003		
Milestone	Date	Lead
12. Publish final NUREG-1633	TBD	K. Halvey Gibson, DIPM

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

- 2,3,4 NUREG-1633 was revised in accordance with SRM SECY-01-0069-“Status of Potassium Iodide Activities” and was sent to the Commission for review and approval via SECY-02-0089, May 22, 2002. Included in this SECY is the public information brochure for Commission review. The public information brochure was prepared by the KI subcommittee members (NRC, FEMA, FDA). FEMA published a version of the KI brochure after review by FEMA OGC.
- 11,12. DCPM in support of NRR request, prepared and posted offering for KI procurement. Bids were received on January 9, 2002. The contract was awarded to Anbex, Inc. on February 1, 2002. As of, July 30, 2002, the States of Maryland, Massachusetts, New York, Connecticut, Arizona, New Hampshire, Vermont, Florida, Delaware, New Jersey, Alabama, Ohio, Pennsylvania, Virginia, North Carolina and California have received KI shipments.

#### IV. Topic Area: Reactor Licensing and Oversight

##### C. Reactor Fire Protection Risk-Informed, Performance-Based Rulemaking

SES Manager: J. Hannon, Branch Chief, SPLB/DSSA/NRRC. Grimes, Program Director, RPRP/DRIP/NRR

Objective: To revise the fire protection regulations to endorse a risk-informed, performance-based consensus standard, National Fire Protection Association (NFPA) Standard 805, "Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants," as an acceptable method for meeting the requirements in 50.48(a) and (f) and as an alternative to the existing requirements in Appendix R.

Prior to December 2002		
Milestone	Date	Lead
1. Update Commission on status of NFPA activities (199900032). Commission paper signed 12/22/00.	12/22/00C	E. Connell, SPLB
2. Conduct public meeting with interested stakeholders	8/30/01C	E. Connell, SPLB
3. Develop a revised rulemaking plan based on interactions with industry regarding their concerns with NFPA 805 (199900032)	10/09/01C	L. Whitney, SPLB
4. Brief ACRS fire protection subcommittee and Full Committee on rulemaking efforts	6/7/02C	L. Whitney, SPLB
5. Brief CRGR on rulemaking efforts	6/11/02C	L. Whitney, SPLB
6. Submit Proposed Rule to Commission (199900032)	7/15/02C	L. Whitney, SPLB
7. Publish proposed rule change for public comment	11/02	L. Whitney, SPLB J. Birmingham, RPRP

Through June 2003		
Milestone	Date	Lead
8. Resolve public comments	5/03	L. Whitney, SPLB J. Birmingham, RPRP

Beyond June 2003		
Milestone	Date	Lead
9. Brief ACRS & CRGR on final rule	09/03	L. Whitney, SPLB J. Birmingham, RPRP
10. Submit final rule for Commission approval (199900032)	11/03	L. Whitney, SPLB J. Birmingham, RPRP

Comments:

1. ~~On August 30, 2001, agreement with NEI was reached on the rulemaking/guidance development process. Accordingly, the staff revised its NFPA 805 rulemaking plan to reflect the delays required for interactions with the industry, and issued a memorandum to the Commission (ADAMS ML012560401) to inform the Commission of (1) NEI agreement with the rulemaking process, and to (2) convey the revised rulemaking plan and completion schedule. The staff placed draft rule text on the NRC Rulemaking Web site for early public comment in December, 2001. Comments received were generally in favor of this initiative. During spring, 2002, the staff placed two interim draft versions of the rule language on the NRC Rulemaking Web site for public information.~~
6. ~~In SECY-02-132, dated July 15, 2002, the staff submitted the proposed rule to the Commission.~~
7. In an SRM, dated October 3, 2002, to SECY-02-0132, the Commission directed the staff to issue the rulemaking for public comment. On October 15, 2002, a package was sent to ADM requesting that the proposed rule be published for public comment in the Federal Register.

#### IV. Topic Area: Reactor Licensing and Oversight

##### D. Utilization of Mixed Oxide (MOX) Fuel in Nuclear Power Reactors

SES Manager: Farouk Eltawila, Director DSARE/RES

Program Manager: Richard Lee, RES

Objectives: To modify NRC neutronics and fuel codes, to obtain the necessary experimental data needed to confirm these codes, which will be used to perform analyses to assess the risk associated with the use of MOX fuel in commercial PWRs. This program will also develop the technical basis to evaluate whether the regulatory criteria and guidelines developed for UO<sub>2</sub> fuel is adequate for MOX fuel.

Prior to December 2002		
Milestone	Date	Lead
1. Complete agreement with Institut de Protection et de Sûreté Nucléaire (IPSN), France, to obtain data on MOX fuel.	12/13/00C	A. Szukiewicz, RES
2. Issue draft agreement with Japan Atomic Energy Research Institute (JAERI) Japan, to obtain data on MOX fuel.	01/26/01C	A. Szukiewicz, RES
3. Issue draft phenomena identification and ranking tables (PIRT) report on reactivity initiated accidents, PWR LOCA and the applicability of NUREG-1465 source term to MOX fuel.	03/26/02C	R. Lee, RES
4. Meet with the ACRS subcommittee to discuss PIRT results and proposed research plan to address source term issues	05/02/02C	J. Schaperow, RES

Through June 2003		
Milestone	Date	Lead
5. Complete final agreement with JAERI and NRC.	TBD	A. Szukiewicz, RES
6. Complete fuel behavior code (FRAP) modification.	02/03	H. Scott, RES

<b>Beyond June 2003</b>		
Milestone	Date	Lead
7. Complete kinetics code (PARCS) modification.	09/03	J. Han, RES
8. This activity is long-term with an anticipated completion date (e.g., SRM, Regulatory Guide) in 2005	TBD	R. Lee, RES

Comments:

5. The agreement with JAERI includes data for both MOX and high burnup fuel (CTM Section IV.F). A revised draft agreement was sent to JAERI on June 28, 2002, for their review/comment and approval. The revised document includes future cooperation and information exchange in the area of HTGR designs. Review time is needed for JAERI and their associated ministries (MEXT/MOFA) to review and approve the agreement. Recently JAERI resolved their internal administrative issues, and issues with MEXT (formerly Science and Technology Agency (STA)) and other government organizations which will allow them to enter into an agreement with NRC directly. This agreement was on hold for over one and a half years until the new reorganized ministries would permit JAERI to enter into an agreement with the NRC. Negotiations to complete this activity are ongoing.

#### IV. Topic Area: Reactor Licensing and Oversight

##### E. High Burnup Fuel

SES Manager: Farouk Eltawila, Director, DSARE/RES

Objectives: To develop the technical bases for confirming or revising existing criteria and analytical methods for high burnup fuel with respect to reactivity insertion accident, the loss-of-coolant accidents and requirements in 10 CFR 50.46, Appendix A and Appendix K, and related source term.

Prior to December 2002		
Milestone	Date	Lead
1. Complete umbrella agreement with Institut de Protection et de Sûreté Nucléaire (IPSN), France, to obtain data on RIA Tests for high burnup fuel.	10/23/00C	A. Szukiewicz, RES
1a. Complete bilateral agreement between IPSN and NRC.	01/26/01C	
2. Issue draft agreement with Japan Atomic Energy Research Institute (JAERI) Japan, to obtain data on RIA Tests for high burnup fuel.	01/26/01C	A. Szukiewicz, RES
3. Issue Phenomena Identification and Ranking Tables (PIRT) report summarizing the expert elicitation to identify, important rank phenomena affecting high burnup fuel behavior under reactivity insertion accidents (RIA), BWR stability, and LOCAs to high burnup fuels.	07/20/01C	R. Meyer, RES
4. Meet with the ACRS subcommittee to discuss PIRT results (Milestone 5) and proposed research plans	04/04/01C	R. Meyer, RES
5. Complete LOCA Oxidation tests for Zircaloy-2	9/28/01C	S. Basu, RES
6. Issue an interim PIRT report on applicability of NUREG-1465 source term on high burnup fuel.	03/26/02C	J. Schaperow, RES

Through June 2003		
Milestone	Date	Lead
None		



<b>Beyond June 2003</b>		
Milestone	Date	Lead
7. Summarize the results from 2 RIA tests at the Cabri (sodium loop) reactor and issue confirmatory assessment	12/03	R. Meyer, RES
8. Complete final agreement with JAERI and NRC	TBD	A. Szukiewicz, RES
9. The activity is long-term with an anticipated completion date for the RIA tests and issuance of modifications to the associated SRP and Regulatory Guide 1.77 in 2008	TBD	R. Meyer, RES

Comments:

8. The agreement with JAERI includes data for both high burnup fuel and MOX (IV. E). A revised draft agreement was sent to JAERI on June 28, 2002, for their review/comment and approval. The revised document includes future cooperation and information exchange in the area of HTGR designs. Review time is needed for JAERI and their associated ministries (MEXT/MOFA) to review and approve the agreement. Recently JAERI resolved their internal administrative issues, with MEXT (formerly Science and Technology Agency (STA)) and other government organizations which will allow them to enter into an agreement with NRC directly. This agreement was on hold for over one and a half years until the new reorganized ministries would permit JAERI to enter into an agreement with NRC. Negotiations to complete this activity are ongoing.

**IV. Topic Area: Reactor Licensing and Oversight****F. Power Upgrades**

SES Manager: S. Singh Bajwa, Director, Project Directorate III, DLPM

Objective: Review licensee applications for increased reactor power levels.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Completion of staff review for safety evaluation report for the ABB "Cross Flow" Meter Topical Report	03/20/00C	I. Ahmed, DE
2. Completion of Final Rule change revising 10 CFR 50, Appendix K	05/03/00C	J. Donoghue, DSSA
3. Completion of staff review for 5% power uprate amendment for LaSalle units ½	05/09/00C	M. Shuaibi, DLPM
4. Completion of staff review for 5% power uprate amendment for Perry	06/01/00C	M. Shuaibi, DLPM
5. Completion of staff review for 5% power uprate amendment for River Bend	10/06/00C	M. Shuaibi, DLPM
6. Completion of staff review for 2% power uprate amendment for Diablo Canyon Unit 1	10/27/00C	M. Shuaibi, DLPM
7. Completion of staff review for 1.4% power increase amendment (w/ flow meter) for Watts Bar Unit 1	01/19/01C	M. Shuaibi, DLPM
8. Completion of staff review for 5% power uprate amendments for Byron/Braidwood	05/04/01C	M. Shuaibi, DLPM
9. Completion of staff review for 1.4% power increase amendment (w/ flow meter) for Salem. Application received on 11/10/00.	05/25/01C	M. Shuaibi, DLPM
10. Completion of staff's Acceptance Review of GE topical report on BWR Constant Pressure Power Uprate	06/13/01C	M. Shuaibi, DLPM
11. Completion of staff review of Susquehanna 1.4% power uprate amendment request. Application received on 10/30/00.	07/06/01C	M. Shuaibi, DLPM
12. Completion of staff review of San Onofre 2/3 1.4% power uprate amendment request. Application received on 04/03/01.	07/06/01C	M. Shuaibi, DLPM

Prior to December 2002		
13. Completion of staff review of Hope Creek 1.4% power uprate amendment request. Application received on 12/01/00.	07/30/01C	M. Shuaibi, DLPM
14. Completion of staff review of Beaver Valley Units ½ 1.4% power uprate amendment request. Application received on 1/18/01.	09/24/01C	M. Shuaibi, DLPM
15. Completion of staff review of Shearon Harris 4.5% power uprate amendment request. Application received on 12/14/00.	10/12/01C	M. Shuaibi, DLPM
16. Complete review of Comanche Peak Units 1 / 2 1.4% and 0.4% power uprate amendments. Applications received on 4/5/01.	10/12/01C	M. Shuaibi, DLPM
17. Completion of staff review of Duane Arnold 15% power uprate amendment request. Application received on 11/17/00.	11/06/01C	M. Shuaibi, DLPM
18. Completion of staff review of Dresden 2 17% power uprate amendment requests. Applications received on 12/29/00.	12/21/01C	M. Shuaibi, DLPM
19. Completion of staff review of Dresden 3 17% power uprate amendment requests. Applications received on 12/29/00.	12/21/01C	M. Shuaibi, DLPM
20. Completion of staff review of Quad Cities 1 17.8% power uprate amendment requests. Applications received on 12/29/00.	12/21/01C	M. Shuaibi, DLPM
21. Completion of staff review of Quad Cities 2 17.8% power uprate amendment requests. Applications received on 12/29/00.	12/21/01C	M. Shuaibi, DLPM
22. Completion of staff review of Clinton 20% power uprate amendment request. Application dated 6/18/01.	03/29/02C	M. Shuaibi, DLPM
23. Completion of staff review of Waterford 3 1.4% power uprate amendment request. Application dated 09/21/01.	03/29/02C	M. Shuaibi, DLPM
24. Completion of staff review of South Texas Units 1 and 2 1.4% power uprate amendment requests. Application dated 08/22/01.	04/12/02C	M. Shuaibi, DLPM
25. Completion of staff review of Arkansas Nuclear One Unit 2 7.5% power uprate amendment request. Application received on 12/19/00.	04/24/02C	M. Shuaibi, DLPM

<b>Prior to December 2002</b>		
26. Completion of staff review of Sequoyah 1 and 2 1.3% power uprate amendment requests. Application dated 11/15/01.	04/30/02C	M. Shuaibi, DLPM
27. Completion of staff review of Brunswick Units 1 and 2 15% power uprate amendment requests. Application dated 08/09/01.	05/31/02C	M. Shuaibi, DLPM
28. Completion of staff review for SER on GE topical report on the BWR Constant Pressure Power Uprates (Extended Power Uprates). Revised application received on 7/26/2001.	See Note	M. Shuaibi, DLPM
29. Completion of staff review of GE topical report for BWR Thermal Power Optimization (TPO) Power Uprates (Measurement Uncertainty Recapture Power Uprates)	TBD	M. Shuaibi DLPM
30. Completion of staff review of Davis-Besse Unit 1 1.63% power uprate amendment request. Application dated 10/12/01.	TBD	M. Shuaibi, DLPM
31. Completion of staff review of Grand Gulf 1.7% power uprate amendment request. Application dated 1/31/02.	<del>10/2002</del> 10/10/02C	M. Shuaibi DLPM
32. Completion of staff review of Palo Verde 2 2.9% power uprate amendment request. Application dated 12/21/01.	<del>12/2002</del> 03/2003	M. Shuaibi, DLPM
33. Completion of staff review of Point Beach 1 & 2 1.4% power uprate amendment request. Application dated 04/30/02.	<del>10/2002</del> 11/2002	M. Shuaibi, DLPM
34. Completion of staff review of River Bend 1.7% power uprate amendment request. Application dated 05/14/02.	12/2002	M. Shuaibi, DLPM
35. Completion of staff review of Robinson 1.7% power uprate amendment request. Application dated 05/16/02.	11/2002	M. Shuaibi, DLPM
36. Completion of staff review of Peach Bottom 2 & 3 1.62% power uprate amendment request. Application dated 05/24 /02.	11/2002	M. Shuaibi, DLPM
37. Completion of staff review of Indian Point 3 1.4% power uprate amendment request. Application dated 05/30/02.	11/2002	M. Shuaibi, DLPM
38. Completion of staff review of Crystal River 3 0.9% power uprate amendment request. Application dated 06/05/02.	12/2002	M. Shuaibi, DLPM

Prior to December 2002		
39. Completion of staff review of D.C. Cook Unit 1 1.66% power uprate amendment request. Application dated 06/28/02.	12/2002	M. Shuaibi, DLPM

Through June 2003		
Milestone	Date	Lead
40. Completion of staff review of Pilgrim 1.5% power uprate amendment request. Application dated 07/05/02.	01/2003	M. Shuaibi, DLPM

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

28. The staff completed its review on June 20, 2002; however, based on discussions with GENE, the staff identified differences of interpretation between the staff and GENE on how the CPPU topical report is to be applied. Therefore, the staff withdrew its approval by letter dated August 12, 2002, until these differences are resolved. The staff met with GENE on September 10, 2002, to discuss the issues. GENE agreed to supplement the sent a revised CPPU topical report to address the staff's concerns. The staff is currently reviewing the revised CPPU topical report. GENE plans to submit a redacted version to address the staff's proprietary information concerns.
29. The staff has completed its technical review of GENE's TPO topical report. However, the staff has determined that GENE's request to withhold much of the topical report from public disclosure does not meet 10 CFR 2.790. GENE has agreed to resubmit its 10 CFR 2.790 request and revise the extent of information it is requesting be withheld from public disclosure.
30. The staff is evaluating the impact of work related to control rod drive mechanism (CRDM) and vessel head issues on the schedule for this power uprate.
31. ~~The staff has completed its technical review of the Grand Gulf power uprate. However, on August 26, 2002, the staff sent a letter to General Electric denying its request for withholding information from public disclosure under 10 CFR 2.790. General Electric has resubmitted its 10 CFR 2.790 request and revised the extent of information it is requesting be withheld from public disclosure. The staff is currently reviewing the revised submittal and expects to complete its review in October 2002. The staff issued the Grand Gulf Power Uprate amendment on October 10, 2002.~~

32. The ~~December~~ completion date is beyond the established goal of 9 months for stretch power uprates. However, the licensee has stated that its power uprate is not needed until the Fall of 2003; therefore, the licensee has not responded to the requests for additional information (RAIs) consistent with the schedule established for earlier completion. ~~submitted a letter on March 12, 2002, revising its requested approval date to December 31, 2002. This was due in part to the large number of RAIs generated by the staff.~~ The schedule has been revised to reflect ~~this request~~ the licensee's priority of the power uprate and projected date for response to the staff's RAIs.
33. The Point Beach application was the first to reference Regulatory Issue Summary (RIS) 2002-03, "Guidance On The Content Of Measurement Uncertainty Recapture Power Uprate Applications." In the course of the staff's review of this application, the staff identified several analyses that were not previously reviewed by the staff for which the staff will have to conduct a detailed review. In addition, this application references another application made by the licensee which requested approval for a new method to be used in performing containment analyses. Completion of the power uprate review is dependent on the approval of the new containment analysis method. As a result, the level of review required for the power uprate application is far more complex than what was anticipated by the staff when RIS 2002-03 was issued and thus may result in a longer review time. In addition, the licensee notified the staff that its plans to implement the power uprate in a manner different than was described in the original application and that a new report describing the new approach will be submitted in October 2002. This ~~also has the potential to~~ will delay completion of the staff's review. The staff will keep the Commission informed of the status of this review through updates to the CTM.
34. The River Bend power uprate has the same issue regarding 10 CFR 2.790 as Grand Gulf. The staff is preparing a letter similar to the one issued for Grand Gulf to inform General Electric of the issues. Completion of the River Bend power uprate will depend on the resolution of this issue. In addition, the licensee has focused its resources on (1) addressing the 10 CFR 2.790 issue with the Grand Gulf power uprate, (2) dealing with a recent reactor trip, and (3) weather-related issues in response to Hurricane Isidore. As a result, the licensee's responses to the staff's RAIs have been delayed and are now expected on October 4~~8~~ 30, 2002. This delays the staff's expected completion date to December 2002. This delay does not adversely impact the licensee's implementation plans as their submittal had requested an NRC approval date of February 14, 2003.
36. The Peach Bottom power uprates have the same issue regarding 10 CFR 2.790 as Grand Gulf. The staff has issued a letter to General Electric denying its request for withholding information contained in the Peach Bottom submittal from public disclosure under 10 CFR 2.790. Completion of the Peach Bottom power uprates ~~will depend on the resolution of this issue~~ is currently on schedule.
40. The Pilgrim power uprate has the same issue regarding 10 CFR 2.790 as Grand Gulf. The staff ~~is preparing~~ issued a letter similar to the one issued for Grand Gulf to inform General Electric of the issues. Completion of the Pilgrim power uprate will depend on the resolution of this issue.

#### **IV. Topic Area: Reactor Licensing and Oversight**

##### **G. Steam Generator Action Plan**

SES Manager: John Zwolinski, Director, DLPM

Objective: The objective of the Steam Generator Action Plan (SGAP) is to ensure that safety from a steam generator tube integrity standpoint is maintained, that public confidence associated with steam generator tube integrity is improved, and that NRC and stakeholder resources are effectively and efficiently utilized. The SGAP is intended to direct and monitor the NRC's effort in this area and to ensure that related issues are appropriately tracked and dispositioned.

<b>Prior to December 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
1. (SGAP Item 1.11) Review the NRC inspection program and, if necessary, revise guidance to inspectors on overseeing facility eddy current inspection of steam generators. This involves the following major substeps: a) review and revise the baseline inspection program. b.1) review how ISI results/degraded conditions should be assessed for significance by a risk-informed SDP and define needed revisions to the SDP	04/30/01C 09/21/01C	C. Khan, DE S. Long, DSSA
2. (SGAP Item 1.19) Issue generic communication related to steam generator operating experience and status of steam generator issues (Information Notice 2001-16)	10/31/01C	Z. Fu, DE
3. (SGAP Item 2.6) Incorporate experience gained from the IP2 event and the SDP process into planned initiatives on risk communication and outreach to the public a) Issue NRR input for incorporation into OEDO initiative.	1/31/02C	M. Kotzalas, PMAS
4. (SGAP Item 2.8) Review and revise, as appropriate, the amendment review process, including concurrence responsibilities, supervisory oversight, and second-round requests for additional information. a) Develop OI LIC-101 b) Develop a process for NRR request and RES review of NRR SEs.	08/20/01C 02/27/02C	M. Banerjee M. Fields, DLPM

Prior to December 2002		
Milestone	Date	Lead
5. (SGAP Item 1.11) Review the NRC inspection program and, if necessary, revise guidance to inspectors on overseeing facility eddy current inspection of steam generators. This involves the following major substeps:		
b.2) develop and issue draft revision of risk-informed SDP using information identified in 1.b above	02/21/02C	P. Koltay, DIPM
c) review and revise the training program for inspectors		
c.1) Provide training materials to regions	10/11/01C	E. Kleeh, DIPM
c.2) Provide formal training to regional inspectors	01/24/02C	C. Khan, DE
6. (SGAP Item 3.2) Confirm that damage progression via jet cutting of adjacent tubes is of low enough probability that it can be neglected in accident analyses.	12/31/01C	J. Muscara, RES
7. (SGAP Item 1.14) Staff completes review and draft safety evaluation of NEI 97-06 including addressing issues raised in OIG report and IP2 lessons learned report	TBD	E. Murphy, DE

Through June 2003		
Milestone	Date	Lead
8. (SGAP Item 3.1.f) Estimate crack growth, if any for a range of crack types and sizes using bounding loads from calculated addition to the pressure stresses and including the effects of tube support plate movement in these evaluations and any effects from cyclic loads.	12/02	J. Muscara, RES
9. (SGAP Item 3.1.g) Estimate the margins to crack propagation for a range of crack sizes for MSLB loads and displacements in addition to pressure stresses.	12/02	J. Muscara, RES
10. (SGAP Item 3.1.h) Based on margins calculated over and above bounding loads, determine if more refined TH analyses need to be conducted to obtain forces and displacements of structures under MSLB conditions	12/02	J. Muscara, RES
11. (SGAP Item 1.20) Staff briefs Commission on endorsing NEI 97-06 (199400048)	TBD	L. Lund, DE



Through June 2003		
12. (SGAP Item 2.6) Incorporate experience gained from the IP2 event and the SDP process into planned initiatives on risk communication and outreach to the public b) Develop SG communication plan required by SRM (M11203) dated 12/26/01.	12/31/02	M. Kotzalas, PMAS
13. (SGAP Item 3.9) Develop a more technically defensible position on the treatment of radionuclide release to be used in the safety analyses of design basis events.	05/15/03	J. Hayes, DSSA
14. (SGAP Item 1.21) Staff issues endorsement package on NEI 97-06 in a safety evaluation and includes the approval of the generic technical specification change in a Regulatory Issue Summary	TBD	E. Murphy, DE
15. (SGAP Item 3.5) Develop improved methods for assessing the risk associated with SG tubes under accident conditions.	06/28/03	H. Woods, RES
16. (SGAP Item 3.1.i) Conduct tests of degraded tubes under pressure and with axial and bending loads to validate the analytical results.	06/03	J. Muscara, RES

Beyond June 2003		
Milestone	Date	Lead
17. (SGAP Item 3.11) In order to resolve GSI 163, it is necessary to complete the work associated with SGAP Items 3.1 through 3.5 and 3.7 through 3.9. Upon completion of those tasks, develop detailed milestones associated with preparing a GSI resolution document and obtaining the necessary approvals for closing the GSI, including ACRS acceptance of the resolution.	12/31/05	M. Banerjee, DLPM
18. (SGAP Item 3.12) Develop outline and a detailed schedule for completing DG 1073, "Plant Specific Risk-Informed Decision Making: Induced SG Tube Rupture	12/31/05	L. Lund, DE

General Comments:

1. The SGAP was originally issued via a memorandum from B. Sheron and J. Johnson to S. Collins dated November 16, 2000, "Steam Generator Action Plan" (ADAMS ML003770259).

2. The SGAP was revised via a memorandum from J. Zwolinski, J. Strosnider, B. Boger and G. Holahan to B. Sheron and R. Borchardt dated March 23, 2001, "Steam Generator Action Plan Revision and Completion of Item Nos. 1.1, 1.2, 1.3, 1.4, 1.7, 1.8, 1.15, 2.1 and 2.2" (ADAMS ML 010820457), and via a memorandum from S. Collins and A. Thadani to W. Travers dated May 11, 2001, "Steam Generator Action Plan Revision to Address Differing Professional Opinion on Steam Generator Tube Integrity (WITS Item 200100026)," (ADAMS ML011300073).

Milestone Comments:

- 7,11,14. The scheduled completion dates for these milestones are dependent on industry actions related to NEI 97-06, "Steam Generator Program Guidelines." The target dates assume industry submittal of an acceptable generic license change package to NRC by 6/30/02. However, the industry submittal schedule was impacted after staff clarified the NRC policy and applicability of the license amendment process to NEI 97-06. The 6/30/02 schedule was not met by the industry. At a 9/11/02 public meeting with the staff, the industry indicated that they intended to make a plant specific steam generator license amendment submittal for a lead plant by the end of the year, thus putting the resolution of the remaining issues through a formal regulatory process. The staff expects a minimum of six months slide in the schedule based on this change in submittal date.
3. The SGAP item 2.6 has been broken down into two activities to address direction from the Commission in SRM (M11203) dated 12/26/01 (refer to milestone 13).
13. The target completion date for item 3.9 has been changed to accommodate higher priority work.

#### IV. Topic Area: Reactor Licensing and Oversight

##### H. New Reactor Licensing Readiness

SES Manager: James Lyons, Director, NRR/ADIP/NRLPO

Objective: Prepare the NRC staff for new applications, (i.e. early site permits, design certifications, and combined licenses), assessing technical, licensing, and inspection capabilities, and identifying any necessary enhancements.

Prior to December 2002		
Milestone	Date	Lead
1. Staff Requirements Memorandum	2/13/01	
2. SRM response describing future licensing preparation activities (200100018)	5/01/01C	J. Sebrosky, NRR/NRLPO
3. Submit a SECY paper (with recommendations) to the Commission resulting from the Future Licensing and Inspection Readiness Assessment (FLIRA) (200100018) (SECY-01-0188)	10/12/01C	N. Gilles, NRR/NRLPO
4. Submit a SECY paper to the Commission to address legal and financial issues raised by Exelon regarding licensing of the pebble bed modular reactor (PBMR) (200100080)(SECY-01-0207)	11/20/01C	A. Cubbage, NRR/NRLPO
5. Submit a SECY paper to the Commission to provide recommendations regarding programmatic inspections, tests, analyses, and acceptance criteria (ITAAC) (20000095)(SECY-02-0067)	4/05/02C	J. Sebrosky, NRR/NRLPO
6. Submit a SECY paper to the Commission to address design acceptance criteria for AP1000 (200100108) (SECY-02-0059)	4/01/02C	L. Burkhart NRR/NRLPO
7. Submit to the Commission a proposed rule containing 10 CFR Part 52 revisions (199700060)(SECY-02-0077)	5/08/02C	J. Wilson, NRR/NRLPO
8. Submit a SECY paper to the Commission with the first semi-annual update of the status of new reactor licensing activities. (200100018)(SECY-02-0076)	5/08/02C	J. Williams, NRR/NRLPO

Prior to December 2002		
Milestone	Date	Lead
9. Provide SECY papers on key policy and technical issues on High Temperature Gas Cooled Reactor (HTGR)	07/22/02C	J. Flack, RES
10. Submit a SECY paper providing final policy recommendations on issues associated with modular and merchant plants.(200100080)	9/30/02 10/7/02C	A. Cubbage, NRR/NRLPO
11. Provide recommendations to Commission regarding NEI petition PRM 52-1 proposing to treat previously-reviewed information as resolved.	10/08/02 11/02	S. Koenick, NRR/NRLPO
12. Provide recommendations to Commission regarding NEI petition PRM 52-2 for alternative sites, alternate sources, and need for power [SECY-02-0175]	09/27/02C	N. Gilles, NRR/NRLPO
13. Provide SECY Paper on Advanced Reactor Research Plan (200200066)	11/02	J. Flack, RES

Through June 2003		
Milestone	Date	Lead
14. Provide SECY paper on recommendations on the policy issues associated with milestone 9 (200200121)	12/02	J. Flack, RES
15. Submit a SECY paper providing the semi-annual update of the status of new reactor licensing activities. (200100018)	12/20/02	J. Williams NRR/NRLPO

Beyond June 2003		
Milestone	Date	Lead
156. Submit to the Commission a final rule containing 10 CFR Part 52 revisions (199700060)	8 months after SRM is issued on proposed rule	N. Gilles, NRR/NRLPO
167. AP1000 Draft SER (with open items) issued to Westinghouse.	28 weeks after all RAI responses received.	L. Burkhart, NRR/NRLPO

Comments:

10. ~~Schedule change required to address OGC comments.~~ SECY-02-0180 was submitted to the Commission on 10/7/02.
- 11 - 12. Completion dates based upon date of publication of petitions in the Federal Register.
11. Schedule change required to address OGC comments. Document is in concurrence.
14. The original intent was to develop a policy paper specifically to address the PBMR. Because of Exelon's announcement to not submit an application for PBMR this SECY paper will not be issued. Instead, a generic policy paper on HTGR will be submitted in the latter part of this year.
15. Item added to reflect upcoming Commission paper.
167. Tentative schedule is June 2003.

#### IV. Topic Area: Reactor Licensing and Oversight

##### I. Instrumentation and Control Research Program

SES Manager: Daniel Dorman, Chief, ERAB/DET/RES

Objective: To assure that the current level of plant safety is maintained as digital systems are integrated into current and future plants in the face of ever changing technology.

Prior to December 2002		
Milestone	Date	Lead
1. Issue Commission paper (SECY-01-0155) on the Digital Instrumentation and Control Research Plan. (200100053)	08/15/01C	S. Arndt, RES
2. Issue for public comment Draft Regulatory Guide 1077 on effects of temperature, humidity and smoke effects on digital systems.	09/26/01C	C. Antonescu, RES
3. Issue complete report on the status of Emerging Technologies.	03/31/02C	S. Arndt, RES
4. Issue revised program plan on emerging digital technology on the potential vulnerabilities of nuclear power plants to cyber-terrorism.	04/30/02C	R. Shaffer, RES
5. Issue for public comment Reg. Guide 1.180 Rev 1 on EMI/RFI in safety related I&C.	08/27/02C	C. Antonescu, RES

Through June 2003		
Milestone	Date	Lead
6. Submit for publication a NUREG on the characteristics of operating systems and provide appropriate review guidance to ensure their safe use.	12/02	E. Lee, RES
7. Issue report on the potential vulnerabilities of nuclear power plants to cyber-terrorism.	03/03	R. Shaffer, RES

Beyond June 2003		
Milestone	Date	Lead
8. Issue report on the use of wireless technology in nuclear power plant applications.	12/03	C. Antonescu, RES

Comments:

3. A draft report was developed in September 2001, however, additional work is needed to broaden the scope of the effort to better focus on technology emerging within the next 5-10 years.
4. Further consideration of the issue of cyber security yielded the conclusion that this subject warrants more attention and more robust treatment. Therefore, a revised program plan will be developed which includes an expanded scope with participation from outside experts.
5. The requesting Program Office required additional time to review the draft Regulatory Guide due to the assignment of a new reviewer. Therefore, additional time is required to address the comments and prepare the draft Regulatory Guide.
7. Because of the revised program plan, this report will be developed with greater participation of a broader base of stakeholders and will result in a more robust treatment of the issue of cyber security.

**V. Topic Area: License Renewal****A. License Renewal (includes Plant Specific Reviews and Generic Process Improvements)**

SES Manager: P. T. Kuo, Program Director, RLEP/DRIP/NRR

Objective: Demonstrate that license renewal applications submitted under 10 CFR Parts 54 & 51 can be reviewed effectively, efficiently, and promptly.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Receive Arkansas Nuclear One, Unit 1, (ANO-1) license renewal application	2/1/00C	C. Grimes, DRIP
2. Receive Hatch, Units 1 and 2, license renewal application	3/1/00C	C. Grimes, DRIP
3. License renewal decision complete for Calvert Cliffs	3/23/00C	C. Grimes, DRIP
4. License renewal decision complete for Oconee	5/23/00C	C. Grimes, DRIP
5. Issue draft Generic Aging Lessons Learned (GALL) report, Standard Review Plan (SRP), and Regulatory Guide (RG)/industry implementation guideline (NEI 95-10) for public comment (199900103)	8/31/00C	C. Grimes, DRIP
6. Receive Turkey Point, Units 3 and 4, license renewal application	9/11/00C	C. Grimes, DRIP
7. Issue ANO-1 Safety Evaluation Report (SER) and identify open items	1/10/01C	C. Grimes, DRIP
8. Issue Hatch SER and identify open items	2/7/01C	C. Grimes, DRIP
9. Submit final GALL report and SRP to the Commission for approval (199600056)	4/26/01C	C. Grimes, DRIP
10. Issue ANO-1 Final Environmental Impact Statement Supplement	4/5/01C	C. Carpenter, DRIP
11. Receive Surry, Units 1 and 2, and North Anna, Units 1 and 2, license renewal applications	5/29/01C	C. Grimes, DRIP
12. Receive McGuire, Units 1 and 2, and Catawba, Units 1 and 2, license renewal applications	6/14/01C	C. Grimes, DRIP
13. Receive Peach Bottom, Units 2 and 3, license renewal application	7/2/01C	C. Grimes, DRIP



Prior to December 2002		
Milestone	Date	Lead
14. Issue Hatch Final Environmental Impact Statement Supplement	5/31/01C	C. Carpenter, DRIP
15. Issue Turkey Point Draft Environmental Impact Statement Supplement	6/12/01C	C. Carpenter, DRIP
16. Issue Turkey Point SER and identify open items	8/17/01C	C. Grimes, DRIP
17. Provide recommendations to the Commission regarding potential rulemaking (199900104)	8/17/01C	C. Grimes, DRIP
18. Issue ANO-1 Supplemental SER	4/12/01C	C. Grimes, DRIP
19. Decision on ANO-1 license renewal	6/12/01C	C. Grimes, DRIP
20. Issue Hatch Supplemental SER	10/5/01C	C. Grimes, DRIP
21. Receive St. Lucie, Units 1 and 2, license renewal application	11/30/01C	C. Grimes, DRIP
22. Receive Ft. Calhoun license renewal application	1/11/02C	C. Grimes, DRIP
23. Issue Turkey Point Final Environmental Impact Statement Supplement	1/11/02C	C. Grimes, DRIP
24. Decision on Hatch license renewal	1/15/02C	C. Grimes, DRIP
25. Issue Turkey Point Supplemental SER	2/27/02C	C. Grimes, DRIP
26. Decision on Turkey Point license renewal	6/6/02C	P. Kuo, DRIP
27. Receive Robinson license renewal application	6/17/02C	S. Lee, DRIP/RLEP
28. Inform the Commission of GALL demonstration project progress and any significant issues (200100059)	7/10/02C	S. Lee, DRIP/RLEP
29. Receive Ginna license renewal application	8/1/02C	S. Lee, DRIP/RLEP
30. Receive Summer license renewal application	8/6/02C	S. Lee, DRIP/RLEP
31. Issue Surry and North Anna Supplemental SER	11/02	S. Lee, DRIP/RLEP
32. Issue Surry and North Anna Final Environmental Impact Statement Supplements	12/02	J. Tappert, DRIP/RLEP

Through June 2003		
Milestone	Date	Lead
33. Issue McGuire and Catawba Supplemental SER	1/03	S. Lee, DRIP/RLEP
34. Issue McGuire and Catawba Final Environmental Impact Statement Supplements	1/03	J. Tappert, DRIP/RLEP
35. Issue Peach Bottom Supplemental SER	2/03	S. Lee, DRIP/RLEP
36. Issue Peach Bottom Final Environmental Impact Statement Supplement	2/03	J. Tappert, DRIP/RLEP
37. Decision on Surry and North Anna license renewal	3/03	S. Lee, DRIP/RLEP
387. Issue St. Lucie Final Environmental Impact Statement Supplement	6/03	J. Tappert, DRIP/RLEP

Beyond June 2003		
Milestone	Date	Lead
<del>38. Decision on Surry and North Anna license renewal</del>	<del>7/03</del>	<del>S. Lee, DRIP/RLEP</del>
39. Decision on Peach Bottom license renewal	7/03	S. Lee, DRIP/RLEP
40. Issue St. Lucie Supplemental SER	7/03	S. Lee, DRIP/RLEP
41. Issue Fort Calhoun Final Environmental Impact Statement Supplement	8/03	J. Tappert, DRIP/RLEP
42. Issue Fort Calhoun Supplemental SER	9/03	S. Lee, DRIP/RLEP
43. Decision on St. Lucie license renewal	10/03	S. Lee, DRIP/RLEP
443. Decision on McGuire and Catawba license renewal (See comment)	12/03	S. Lee, DRIP/RLEP
454. Issue Robinson Final Environmental Impact Statement Supplement	12/03	J. Tappert, DRIP/RLEP
<del>45. Decision on St. Lucie license renewal</del>	<del>1/04</del>	<del>S. Lee, DRIP/RLEP</del>

<b>Beyond June 2003</b>		
Milestone	Date	Lead
46. Decision on Fort Calhoun license renewal	1/04	S. Lee, DRIP/RLEP
47. Issue Robinson Supplemental SER	1/04	S. Lee, DRIP/RLEP
48. Issue Ginna Final Environmental Impact Statement Supplement	2/04	J. Tappert, DRIP/RLEP
49. Issue Summer Final Environmental Impact Statement Supplement	2/04	J. Tappert, DRIP/RLEP
50. Issue Summer Supplemental SER	3/04	S. Lee, DRIP/RLEP
5149. Issue Ginna Supplemental SER	3/04	S. Lee, DRIP/RLEP
520. Decision on Robinson license renewal	12/04	S. Lee, DRIP/RLEP
534. Decision on Ginna license renewal	2/05	S. Lee, DRIP/RLEP
54. Decision on Summer license renewal	2/05	S. Lee, DRIP/RLEP

Comments:

The Commission's 8/30/02, SRM directed the staff to complete the reviews for uncontested applications within 22 months. CTM dates for decisions on uncontested license renewal applications under review will be revised when the applicants and the public have been notified of the change.

37 & 43. Schedules for completion of the Surry, North Anna, and St. Lucie reviews revised to 22 months per the Commission's 8/30/02 SRM.

443. On January 24, 2002, the Atomic Safety and Licensing Board (ASLB) admitted contentions filed by Nuclear Information and Resource Service and the Blue Ridge Environmental Defense League, petitioners in the Catawba and McGuire license renewal proceeding. They contended that the applicant's severe accident mitigation alternative (SAMA) analysis was incomplete. The staff and Duke subsequently filed appeals to the Commission. On July 23, 2002, the Commission issued an order (CLI 02-17), admitting to an extent, the SAMA contention. An earlier Commission order reversed the ASLB's decision to admit a second contention pertaining to the potential use of mixed-oxide fuel in the McGuire and Catawba reactors. A certified question from the ASLB relating to the admissibility of a contention pertaining to terrorism is still under

review by the Commission. In May 2002 the staff received eight late-filed contentions pertaining to the environmental review for the McGuire and Catawba license renewal application. Subsequently, in July 2002, the late-filed contentions were withdrawn.

~~46. Revised Fort Calhoun date to match detailed schedule issued to the applicant.~~

~~48, 49, 51. Added milestones for Ginna renewal review.~~

49, 50, 54. Added milestones for Summer renewal review.

**VI. Topic Area: License Transfers****A. License Transfers**

SES Manager: John Zwolinski, Director, DLPM/NRR

Objective: To ensure that license transfers are conducted in a timely and technically correct manner and that review and submittal guidance is appropriately disseminated.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Complete the order and conforming amendment for the direct license transfer for Oyster Creek resulting from the sale to AmerGen.	6/6/00C	S. Richards, PDI
2. Complete the orders and conforming amendments for the direct license transfers for Monticello and Prairie Island ½ resulting from the merger of Northern State Power and New Central Energy.	5/15/00C	S. Bajwa, PDIII
3. Complete the orders and conforming amendments for the license transfers for Duane Arnold, Kewaunee, Monticello, Point Beach ½ and Prairie Island ½ resulting from the formation of the Nuclear Management Company, LLC, to operate these facilities.	5/15/00C	S. Bajwa, PDIII
4. Complete the orders for the indirect license transfers for Hope Creek, Peach Bottom 2/3, and Salem ½ resulting from the acquisition of Conectiv's interest in the facility by PSEG Nuclear.	4/21/00C	S. Richards, PDI
5. Complete the orders and conforming amendments for the direct license transfers for Susquehanna ½ resulting from the restructuring of PP&L Inc. to PPL Susquehanna, LLC.	6/6/00C	S. Richards, PDI
6. Complete the orders and conforming amendments for Braidwood ½, Byron ½, Dresden ½/3, LaSalle ½, Limerick ½, Peach Bottom 2/3, Quad Cities ½, Salem ½, and Zion ½ resulting from the merger of UNICOM and PECO.	8/3/00C	S. Bajwa, PDIII
7. Complete the orders for Indian Point ½, Millstone ½/3, and Seabrook resulting from the merger of Consolidated Edison and Northeast Utilities.	8/22/00C	S. Richards, PDI
8. Complete the order and conforming amendment for the acquisition of Vermont Yankee by AmerGen.	7/7/00C	S. Richards, PDI

Prior to December 2002		
9. Complete the order for the acquisition of Florida Progress (Crystal River 3) by Carolina Power & Light.	5/22/00C	H. Berkow, PDII
10. Complete the order and conforming amendment for Trojan resulting from the acquisition of Portland General Electric by Sierra Pacific Resources.	7/27/00C	W. Ruland, PDIV
11. Complete the order and conforming amendment for Waltz Mills resulting from the merger of CBS Corporation and VIACOM.	4/13/00C	L. Marsh, REXB
12. Complete the orders for Seabrook and Millstone 3 resulting from a minority owner reorganization (United Illuminating Company).	7/18/00C	S. Richards, PDI
13. Complete the orders and conforming amendments for Calvert Cliffs ½ resulting from the restructuring of Baltimore Gas & Electric, and its parent company (Constellation Energy).	6/30/00C	S. Richards, PDI
14. Complete the orders and conforming amendments for Palo Verde ½/3 resulting from the reorganization of Public Service Company of New Mexico (minority owner).	9/29/00C	W. Ruland, PDIV
15. Complete the orders and conforming amendments for Indian Point 3 and Fitzpatrick resulting from the acquisition of the plants by Entergy.	11/9/00C	S. Richards, PDI
16. Complete the orders and conforming amendments for Palo Verde ½/3 resulting from the restructuring of El Paso Electric Company.	12/04/00C	W. Ruland, PDIV
17. Complete the orders and conforming amendments for Clinton, Oyster Creek, and TMI 1, resulting from the merger of UNICOM and PECO (AmerGen).	12/21/00C	S. Richards, PDI
18. Complete the orders and conforming amendments for transfer of ownership of Salem 1&2, Hope Creek, and Peach Bottom 2&3 from Atlantic City Electric and Delmarva Power to PECO and PSEG Nuclear LLC.	12/27/00C	S. Richards, PDI
19. Complete the order and conforming amendment for Vermont Yankee resulting from the merger of UNICOM and PECO/AmerGen. (Application withdrawn by AmerGen on 8/27/01)	Order Expired 7/1/01 8/27/01CW	S. Richards, PDI

<b>Prior to December 2002</b>		
20. Complete the orders and conforming amendments for Millstone 1/2/3 resulting from the acquisition of the plants by Dominion Nuclear Connecticut.	3/9/01C	S. Richards, PDI
21. Complete the order and conforming amendments for the indirect transfer of TMI 2 and Saxton (demonstration reactor) resulting from the proposed merger of GPU, Inc. and First Energy Corporation.	3/07/01C	W. Ruland, PDIV
22. Complete the license transfer order for Wolf Creek resulting from the restructuring of Kansas City Power & Light into a corporate holding company	6/01/01C	W. Ruland, PDIV
23. Complete the orders and conforming amendments for Indian Point 1&2 resulting from the acquisition of the plants by Entergy Corporation from Consolidated Edison	8/27/01C	S. Richards, PDI
24. Complete the order and conforming amendment for Palisades resulting from the merger of Consumers Energy Company (owner of Palisades) with Nuclear Management Company LLC.	4/19/01C	S. Bajwa, PDIII
25. Complete the license transfer order for Calvert Cliffs 1&2 resulting from a corporate realignment of Constellation Energy Group, Inc., which will transfer control of the plant to Calvert Cliffs Nuclear Power Plant, LLC.	6/19/01C	S. Richards, PDI
26. Complete the license transfer order for Nine Mile Point 1&2 transferring ownership of the plant to Constellation Nuclear, LLC.	6/22/01C	S. Richards, PDI
27. Complete the indirect license transfer order for Susquehanna 1&2 transferring ownership of the plant to PPL Energy Supply, LLC, a newly-formed and intermediary parent company.	5/25/01C	S. Richards, PDI
28. Complete the direct license transfer order for transfer of the extent of ownership of Kewaunee held by Madison Gas & Electric to Wisconsin Public Service Corporation.	9/22/01C	S. Bajwa, PDIII
29. Complete the revision of existing 9/29/00 license transfer order to Public Service Company of New Mexico for Palo Verde resulting from New Mexico Senate Bill 266 which delays deregulation in New Mexico.	6/25/01C	W. Ruland, PDIV

<b>Prior to December 2002</b>		
30. Complete the indirect license transfer orders for R.E. Ginna and Nine Mile Point 2 transferring ownership of the plants from Rochester Gas & Electric to Energy East Corporation.	12/10/01C	S. Richards, PDI
31. Complete the license transfer orders for McGuire 1&2, Oconee 1/2/3, and Catawba 1&2 transferring operating authority for the plants to Duke Energy Nuclear, LLC, a new, wholly owned subsidiary of Duke Energy Corp.	12/20/01C	H. Berkow, PDII
32. Complete the license transfer orders for Comanche Peak 1&2 resulting from restructuring of TXU Electric to conform to the deregulation laws of the State of Texas.	12/21/01C	W. Ruland, PDIV
33. Complete the license transfer orders for South Texas 1&2: indirect transfer of HL&P's interest in STP1&2 to CenterPoint Energy, Inc., a new parent holding company of HL&P; direct transfer of HL&P's interest in STP1&2 to Texas Genco LP, wholly owned by CenterPoint Energy, Inc. License transfers result from restructuring of STP Nuclear Operating Company to conform to the deregulation laws of the State of Texas.	12/20/01C	W. Ruland, PDIV
34. Complete the license transfer order for Pilgrim Unit 1 to change the plant operator to Entergy Nuclear Operations.	3/15/02C	S. Richards, PDI
35. Complete the supplemental order (to the existing 6/22/01 license transfer order) for Nine Mile Point 1&2 authorizing a phased transfer of NYSEG ownership.	10/30/01C	S. Richards, PDI
36. Complete the direct license transfer order for Vermont Yankee transferring operating responsibility from Vermont Yankee Nuclear Power Corporation to Entergy Nuclear Operations.	5/17/02C	S. Richards, PDI
37. Complete the indirect transfer of the license for the Trojan Nuclear Plant, and the material license for the Trojan ISFSI, from Portland General Electric Co. to Northwest Natural Holdco, a new holding company.	3/26/02C	W. Ruland, PDIV
38. Complete the indirect transfer of the license for the Humboldt Bay Power Plant resulting from the proposed separation of Pacific Gas & Electric Co. (PG&E) from its current parent organization, PG&E Corporation, as part of the Plan of Reorganization for PG&E as filed under Chapter 11 bankruptcy proceedings.	08/15/02C	W. Ruland, PDIV



Prior to December 2002		
39. Complete the direct license transfer order for transfer of ownership of North Anna 1&2 and Surry 1&2 from Virginia Electric Power Co. to Dominion Generation.	NRR review terminated 5/13/02	H. Berkow, PDII
40. Complete the direct transfer of the Central Power & Light Co. interest in South Texas 1&2 to CPL Genco LP, a wholly owned subsidiary of American Electric Power Co.	Licensee requests to suspend review	W. Ruland, PDIV
41. Complete the review of the license transfer order for the Aerotest Radiography and Research Reactor.	TBD	P. Madden, DRIP/REXB
42. Complete the indirect license transfer for Millstone Units 1, 2, & 3. to Dominion Energy Holdings, Inc., a newly created intermediate subsidiary of Dominion Resources, Inc.	The staff's review has been closed.	S. Richards, PDI
43. Complete the license transfer order for Diablo Canyon 1&2 to Diablo Canyon LLC, a new wholly-owned subsidiary of Electric Generation LLC, a new generating company created in connection with the Chapter 11 reorganization plan for PG&E.	<del>10/30/02</del> 12/30/02 Estimated	W. Ruland, PDIV
44. Complete the indirect license transfer for D.C. Cook Units 1&2 transferring ownership from Indiana Michigan Power Company to a new parent company, Central and South West Corporation. The transaction is a result of corporate restructuring.	8/02/02C	S. Bajwa, PDIII
45. Complete the transfer of the existing operating licenses for Palo Verde Units 1, 2, and 3 from Arizona Public Service Co. (APS) to Pinnacle West Energy Co. The application results from restructuring of APS to conform to deregulation requirements of the State of Arizona requiring separation of electric generation supply from transmission and distribution activities.	<del>10/15/02</del> TBD	W. Ruland, PDIV
46. Complete the direct license transfer order for transfer of ownership of Seabrook Unit 1 from North Atlantic Energy Service Company to FPL Group.	<del>11/15/02</del> 11/01/02	S. Richards, PDI

Through June 2003		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

38. A preliminary determination by the staff indicates that a license transfer order is not required for this application. The staff is proceeding with an SE which is necessary for a final determination that a license transfer order will not have to be issued. The target completion date has been further revised to 06/28/02 due to staff resource limitations, and other priority issues on the Humboldt Bay project. This date is still ahead of the licensee's requested 7/31/02 completion date. Extensive comments received from OGC and are being incorporated. The license transfer was issued on 08/15/02.
39. In a letter dated 1/30/02, Virginia Electric Power Company (VEPCO) has requested that the application for order and conforming license amendments directly affecting North Anna 1 and 2, and Surry 1 and 2, [and indirectly affecting Millstone 1, 2, and 3] be held in abeyance. On 12/18/01 the Virginia State Corporation Commission (SCC) denied VEPCO's request to transfer its generation assets to Dominion Generation, an affiliate company. VEPCO has appealed (1/17/02) the SCC's order, and has notified the staff that the appeal process is not expected to be completed until the fourth quarter of 2002. By letter dated May 13, 2002, the staff informed the licensee that the staff's review activity has been formally closed, but may be reopened by VEPCO after the appeal of the SSC denial decision has been resolved.
40. The licensee, by letter dated May 21, 2002, requested NRC to suspend its review of the application and added it will notify the NRC when the necessary regulatory approvals are in place and the review of the application can recommence.
41. Aerotest Operations has been acquired by a parent company, Autoliv, Inc., resulting in foreign ownership of the facility, which continues to be operated by Aerotest. The current review is being conducted per Action Plan for an indirect license transfer that has, in effect, already occurred (without NRC concurrence).
42. In a letter dated 1/30/02, Virginia Electric Power Company (VEPCO) has requested that the application for order and conforming license amendments directly affecting North Anna 1 and 2, and Surry 1 and 2, [and indirectly affecting Millstone 1, 2, and 3] be held in abeyance. On 12/18/01 the Virginia State Corporation Commission (SCC) denied VEPCO's request to transfer its generation assets to Dominion Generation, an affiliate company. VEPCO has appealed (1/17/02) the SCC's order, and has notified the staff that the appeal process is not expected to be completed until the fourth quarter of 2002.

The staff is planning to inform the licensee that the staff's review activity has been formally closed, but may be reopened by VEPCO after the appeal of the SCC denial decision has been resolved.

43. ~~Due to the complex nature of the anti-trust issues of the request and the consideration of additional written comments, as directed by the Commission, the expected completion date is estimated to be 10/30/02.~~ Due to the complex nature of the anti-trust issues of the request and the consideration of additional written comments from interveners, as directed by the Commission, the expected completion date is estimated to be 12/30/02. OGC has not yet resolved the anti-trust issues, and the staff is waiting on OGC's review of the staff's proposed resolution of intervenor comments.
45. APS has put a hold on the License Transfer Request and will get back to the Commission by Mid-January, 2003, with their decision. In view of this, OGC has stopped the review work.
46. With OGC for the final review. Will meet the targeted Licensee requested date of 11/01/02.

**VII. Topic Area: Materials and Waste Programs****A. Dual Purpose Spent Fuel Cask Reviews****1) NAC-UMS Cask Review**

SES Manager: Charles L. Miller, Deputy Director, Licensing and Inspection Directorate, Spent Fuel Project Office (SFPO)

~~Cornelius Holden~~, Acting Patricia Holahan, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Project Manager: ~~Steven Baggett~~ David Tiktinsky (SFPO)

Objective: To issue a Part 72 storage Safety Evaluation Report (SER) and certificate of compliance (through rulemaking) and a Part 71 transportation certificate of compliance (CoC) for the NAC-UMS dual purpose cask system.

Coordination: The Part 72 storage SER and certificate of compliance have been issued in draft for rulemaking. SFPO coordinated with OGC and IMNS to complete the rulemaking, and issued the certificate of compliance for use in October 2000.

Prior to December 2002		
Milestone	Date	Lead
1. Staff completes rulemaking; issues CoC for use under Part 72	10/02/00C	M. Tokar, SFPO
2. Issue Part 71 SER and CoC	10/31/02C	D. Tiktinsky S. Baggett, SFPO

Through June 2003		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

- On July 16, 1999, NAC submitted an amendment request for the Part 72 application to include all fuel to be stored at Maine Yankee. At the request of NAC to expedite the

review of the storage amendment, the staff agreed to a delay in the review of the NAC-UMS transportation application, after issuing a Request for Additional Information (RAI) in August 1999. NAC responded to the staff's August 1999 RAI on June 29, 2000.

On October 26, 2000, NAC withdrew its June 29, 2000 RAI response, based on deficiencies identified by the staff. NAC submitted revised responses dated March 14 and March 30, 2001, to address the original RAI. SFPO staff issued another RAI on June 14, 2001, requesting the applicant's response by August 13, 2001. NAC responded to the RAI on November 16, 2001. SFPO staff has completed its acceptance review of the RAI response and developed a schedule to complete the review by October 31, 2002.

**VII. Topic Area: Materials and Waste Programs****B. ISFSI Licensing - Private Fuel Storage**

SES Manager: Charles L. Miller, Deputy Director, Licensing and Inspection Directorate, Spent Fuel Project Office (SFPO)

Project Manager: Mark Delligatti

Objective: Complete all actions associated with the review of the Private Fuel Storage, LLC application (includes: development of a Safety Evaluation Report, an Environmental Impact Statement, and completion of adjudicatory hearings before the Atomic Safety and Licensing Board).

Coordination: The SFPO coordinates with the OGC, particularly on matters associated with the adjudicatory proceedings before the Atomic Safety and Licensing Board. In addition, the staff has sought and received review assistance for the review of the financial aspects of the license application, accident analysis, and review of the Emergency Plan and geotechnical issues from NRR. Review assistance is also being received from NMSS for the review of the physical security plan and fire protection issues. This assistance has also extended to activities related to the hearings.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Issue Draft Environmental Impact Statement (EIS)	6/23/00C	M. Delligatti, SFPO
2. Staff issues supplement to Safety Evaluation Report (SER)	9/29/00C	M. Delligatti, SFPO
3. Begin ASLB Hearing on Safety Contentions (Round 1)	6/19/00C	G. P. Bollwerk, ASLB
4. Issue Final SER	9/29/00C	M. Delligatti, SFPO
5. Complete Final EIS and revision to SER	12/31/01C	M. Delligatti, SFPO
6. Hearing on Environmental Contentions and Remaining Safety Contentions (Round 2)	4/8/02 - 7/03/02C	M. C. Farrar, ASLB

<b>Through June 2003</b>		
Milestone	Date	Lead
7. ASLB Decision on Licensing	12/06/02	M.C. Farrar, ASLB

<b>Beyond June 2003</b>		
Milestone	Date	Lead
8. Final Decision on Licensing	TBD	

Comments:

5. On March 30, April 5, April 10, April 13, April 16, and May 31, 2001, PFS submitted revised information on aircraft hazards and geotechnical analyses. The staff completed the Final EIS and SER supplement and provided limited distribution to the ASLB and the other parties to the hearing by December 31, 2001. On January 11, 2002, the staff filed an unredacted version of the Final EIS with the Environmental Protection Agency and released to the public an unredacted supplement to the SER.
- 6-7. The ASLB will hold the second round of hearings from April 8 through July 3, 2002. The Board has scheduled December 6, 2002, as the date for its decision in this case. (Judge Farrar replaced Judge Bollwerk as the presiding Judge earlier in this proceeding).
8. A final Commission decision on licensing will take place after the Board has rendered its decision.

## **VII. Topic Area: Materials and Waste Programs**

### **C. Generic Spent Fuel Transportation Studies**

- 1) Re-examination of Spent Fuel Shipment Risk Estimates, NUREG/CR-6672**
- 2) Package Performance Study: "Update of Spent Fuel Shipping Container Performance in Severe Highway and Railway Accidents"**

SES Manager: Michael Mayfield, Director, DET/RES

Project Manager: Andrew Murphy, DET/RES

Objective: Reassess previous assumptions and analysis contained in: (1) NUREG-0170, "Final Environmental Statement on the Transportation of Radioactive Material by Air and Other Modes," and (2) NUREG/CR-4829, "Shipping Container Response to Severe Highway and Railroad Accidents."

Coordination: The Spent Fuel Project Office (SFPO) will coordinate internally with HLW, OGC, NRR, RES, OPA, OCA, and OSTP, and externally with the U.S. Department of Transportation to ensure that all technical, regulatory and stakeholder issues are considered and addressed.

Staff conducted a series of public meetings in November-December 1999 and in August/September 2000 to obtain public stakeholder views on spent fuel package performance under severe accidents. NMSS and RES are coordinating on possible follow-on analyses and testing, which may be recommended. As of March 2001, RES has assumed the lead on this issue, as some additional confirmatory analyses and/or testing is planned. NMSS/SFPO will continue to provide support for further public interaction.

<b>Prior to December 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
1. Complete Review of Sandia National Labs (SNL) Proposal (NRC Form 189) for Package Performance Study (PPS)	08/15/01C	A. Murphy, RES
2. Complete Prospectus Soliciting Co-funding Partners (Domestic and International) for PPS	11/30/01C	A. Murphy, RES
3. Complete review of SNL test protocols for impact and fire tests	02/12/02C	A. Murphy, RES
4. Complete review of SNL test protocol for spent nuclear fuel response to impacts	05/28/02C	A. Murphy, RES
5. Complete review of SNL report on barge accident event trees	07/31/02C	A. Murphy, RES



Through June 2003		
Milestone	Date	Lead
None		

Beyond 2002		
Milestone	Date	Lead
6. Complete review of SNL report on tractor trailer accident event trees	09/03	A. Murphy, RES

Comments:

## **VII. Topic Area: Materials Programs and Waste Programs**

### **C. Generic Spent Fuel Transportation Studies**

#### **3) Characterization of Fuel Stored in Dry Cask**

SES Manager: Michael Mayfield, Director DET/RES and  
Jack Rosenthal, Branch Chief, SMSAB/DSARE/RES

Objective: Develop the technical basis to establish standard review plans for the renewal of certificates for Spent Fuel Storage Dry Casks.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Provide preliminary consequence analysis for PRA for dry storage of spent fuel.	07/16/01C	J. Schaperow, RES
2. Perform destructive and nondestructive examinations on the Surry fuel; compare results from the Surry fuel examinations to segments from controlled environment to determine if there are any differences between the condition of the two claddings	08/29/02C	H. Scott, RES

<b>Through June 2003</b>		
Milestone	Date	Lead
3. Meet with the ACRS/ACNW subcommittee to discuss test.	04/03 03/03	H. Scott, RES

<b>Beyond June 2003</b>		
Milestone	Date	Lead
4. Develop technical bases for evaluating the high-burnup nuclide inventories and associated source terms to be used for the cask license renewal	9/03	H. Scott, RES
5. Provide data and issue report NUREG/CR and RIL for updating existing Standard Review Plan (SRP) or developing a new SRP for dry cask storage license renewal.	9/03	R. Kenneally, DET
6. Develop the technical bases for evaluating high burnup cladding integrity by performing creep tests on high burnup fuel rods.	9/03	H. Scott, RES

Comments:

3. ~~Per discussions with ACRS/ACNW staff, we are estimating a briefing date of January 2003.~~ Per discussions with ACRS/ACNW and NMSS staff, we have established a briefing date for March 2003.

**VII. Topic Area: Materials and Waste Programs****D. Part 41 Rulemaking: Domestic Licensing of Uranium and Thorium Recovery Activities and Uranium Recovery Concerns - and Related Guidance**

SES Manager: Daniel Gillen, Chief, Fuel Cycle Facilities Branch, Division of Fuel Cycle Safety and Safeguards (FCSS)

Objectives: Update uranium recovery guidance documents to implement Commission direction.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. SECY-01-0026 to the Commission (199800177)	02/15/01C	M. Haisfield, IMNS
2. Publish draft versions of NUREGs 1569 and 1620 for public comment.	01/31/02C	J. Lusher, FCSS
3. Final versions of NUREGs 1569 and 1620 to Commission (200100050) (SECY-01-0026)	<del>10/02</del> 11/02	J. Lusher, FCSS

<b>Through June 2003</b>		
Milestone	Date	Lead
None		

<b>Beyond June 2003</b>		
Milestone	Date	Lead
None		

Comments:

In an SRM dated May 29, 2001, the Commission directed the staff to discontinue the current 10 CFR Part 41 rulemaking efforts and focus staff resources on updating guidance documents to implement Commission direction set forth in the SRMs for SECYs 99-012, 99-013, and 99-277.

Since that time the staff has incorporated into the guidance documents the information from SECY-99-0011, SECY-99-0012, SECY-99-0013, SECY-01-0026, SECY-99-277, and other studies such as "Surety Estimation Methodology for Groundwater Corrective Action at Title II Conventional Mills," August 2001; NUREG-6733, "A Baseline Risk-Informed Performance-Based Approach for In Situ Leach Uranium Extraction Licensees," September 2001; and "Risk Informing Uranium Recovery," December 2001. NUREG-1569, Rev. 1, "Draft Standard Review Plan For *In Situ* Leach Uranium Extraction License Applications," and NUREG-1620, Rev. 1, "Draft Standard Review Plan For the Review of a Reclamation Plan for Mill Tailings

Sites Under Title II of the Uranium Mill Tailings Radiation Control Act" were issued for public comment January 31, 2002. On February 05, 2002, issuance of NUREGs 1569 and 1620 was placed in the Federal Register and placed on the NRC Web site. The public comment period closed on April 22, 2002. The comments have been docketed and entered into ADAMS. Comments were received from the following: State of New Mexico, Environmental Department; State of Texas, Department of Health; Nuclear Energy Institute; National Mining Association; Wyoming Mining Association; Kennecott Energy; Rio Algom Mining LLC; and NRC Staff. These comments were forwarded in April to our contractor (CNWRA) for incorporation into the guidance documents. The comments were reviewed and incorporated, as appropriate, into NUREGs 1569 and 1620. The final versions were received from the contractor in August.

~~The staff has drafted a Commission Paper to forward the Standard Review Plans to the Commission for approval. This paper is currently being reviewed by Office of Nuclear Material Safety and Safeguards' management.~~

**VII. Topic Area: Materials and Waste Programs****E. Part 40 Rulemaking: Licensing of Source Material**

SES Manager: Patricia Holahan, ~~Cornelius Holden, Acting~~ Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Objective: Develop risk-informed and coherent regulations for licensing of source material and work towards addressing the jurisdictional and technical issues associated with regulating low-level source material (excluding uranium recovery), minimizing duplication in regulatory authority between NRC under the Atomic Energy Act (AEA), the States under State law, and the Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA) under various Federal statutes.

Coordination: STP, OGC, OE, ADM, CIO, CFO.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Status report on interaction with States and other Federal Agencies (199800203) (SECY-01-0051)	3/23/01C	T. Taylor, IMNS
2. Rulemaking plan (on control of distribution) to Commission (200000042)	4/25/01C	G. Comfort, IMNS
3. Proposed rule for transfer of exempt material (40.51) to SECY/ADM	7/29/02C	G. Comfort, IMNS
4. Provide Commission memorandum on highlights and next steps of jurisdictional issues (199800203)	8/13/02C	T. Taylor, IMNS
5. Provide additional recommendations to Commission on exemption issues based on results of ORNL's report (199000208) (Paper will also include recommendations on byproduct material.)	<del>10/15/02</del> 11/4/02	C. Mattsen, IMNS

Through June 2003		
Milestone	Date	Lead
6. Final rule (on transfers from licensees) to Commission (200000041)	5/30/03 6 months after end of public comment period	G. Comfort, IMNS

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

4. A new SECY Paper providing recommendations is planned for March 2003 (or consistent with framework for control of materials schedule).

**VII. Topic Area: Materials and Waste Programs****F. West Valley Decommissioning Criteria**

SES Manager: J. Greeves, Director, Division of Waste Management

Objective: Prescribe decommissioning criteria for use by the Department of Energy for the West Valley Demonstration Project and for any follow-on licensing activities.

Coordination: Region I

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Commission Paper, with revised policy statement, to Commission for approval (199800178)(SECY-00-0226)	12/04/00C	J. Parrott, DWM
2. Publish revised policy statement in Federal Register	02/02/02C	C. Glenn, DWM
3. Hold public meeting to discuss policy statement	04/17/02C	C. Glenn, DWM

<b>Through June 2003</b>		
Milestone	Date	Lead
None		

<b>Beyond June 2003</b>		
Milestone	Date	Lead
4. After DOE's publication of West Valley draft decommissioning EIS, NRC will review and comment on the DEIS.	10/04	C. Glenn, DWM
5. Determine whether preferred alternative meets decommissioning criteria identified in policy statement.	06/2005	C. Glenn, DWM

Comments:

- After reviewing DWM's planned activities on West Valley, we identified the milestone, "Review Waste Management DEIS" as an activity that NRC is not required to do, and we were informed by DOE that our comments were not needed; thus, this milestone is being deleted.



**VII. Topic Area: Materials and Waste Programs****G. Site Decommissioning Management Plan Status**

SES Manager: J. Greeves, Director, Division of Waste Management

Objective: Implement the Site Decommissioning Management Plan (SDMP).

Coordination: Region I

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. SDMP Master Schedule developed	3/31/00C	L. Camper, DWM
2. Complete Environmental Assessment/Safety Evaluation Report for Cabot-Revere site	6/01C	L. Camper, DWM
3. 2001 Annual Update to Commission - Status of Decommissioning Program (199900100)	8/17/01C	L. Camper, DWM
4. Commission Paper to remove Cabot-Revere site from SDMP (200100035) (SECY-01-0138)	7/26/01C	L. Camper, DWM
5. Remove the Cabot-Revere site from SDMP	9/01C	L. Camper, DWM
6. Remove Lake City Army Ammunition Plant from SDMP	10/01C	S. Brown, DWM
7. 2002 Annual Update to Commission - Status of Decommissioning Program (199900100)	09/18/02C	L. Camper, DWM

<b>Through June 2003</b>		
Milestone	Date	Lead
None		

<b>Beyond June 2003</b>		
Milestone	Date	Lead
8. Remove Watertown GSA Site from SDMP	TBD	C. Gordon, Region I

Comments:

**VII. Topic Area: Materials and Waste Programs****H. Prepare for Licensing a HLW Repository****1) Part 63 Rulemaking and Guidance Development: HLW Repository Licensing**

SES Managers: Janet Schlueter, Chief High-Level Waste Branch, Division of Waste Management

Patricia Holahan, Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Objective: To develop licensing criteria and guidance for disposal of high-level radioactive waste at the proposed geologic repository at Yucca Mountain, Nevada.

Coordination: OGC

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Draft final rule to Commission (SECY-00-0084) (199800029)	4/12/00C	T. McCartin, DWM
2. Submit Revised Draft Final Rule to Commission (199800029) (SECY-01-0127)	7/10/01C	T. McCartin, DWM
3. Issue Federal Register Notice on Final Part 63	11/02/01C	T. McCartin, DWM
4. Submit proposed rule on unlikely events (200100100) (SECY 01-206)	11/16/01C	C. Prichard, IMNS
5. Schedule Public Meetings on Part 63	02/28/02C	J. Kotra, DWM
6. Provide a schedule of the public meetings on the Yucca Mountain Review Plan (SECY-M020304)	05/10/02C	J. Ciocco, DWM
7. Submit Draft Final Rule on Unlikely Events	07/24/02C	C. Prichard, IMNS

<b>Through June 2003</b>		
Milestone	Date	Lead
8. Submit Draft Final Yucca Mountain Review Plan	2/13/03	J. Ciocco, DWM

<b>Beyond June 2003</b>		
Milestone	Date	Lead
None		

Comments:

8. Comment period was extended 45 days in response to a public request. Over 900 comments were received, which was considerably more than expected. Additional time is required to address all the comments.

## VII. Topic Area: Materials and Waste Programs

### I. Control of Solid Materials

SES Managers: Patricia Holahan, ~~Cornelius Holden~~, Acting Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

John Greeves, Director, Division of Waste Management (DWM)

Cheryl Trottier, Chief, Radiation Protection, Environmental Risk and Waste Management Branch, DSARE, RES

Objective: To examine NRC's regulatory approach for control of solid materials, including enhanced public participation in such a process.

Prior to December 2002		
Milestone	Date	Lead
1. Issue Commission paper (SECY-00-0070) (199400059)	3/23/00C	F. Cardile, IMNS
2. Draft report on methods to survey material containing low levels of radioactivity provided to NMSS.	7/10/01C	C. Trottier, RES
3. National Academy of Sciences study completed (200000039)	3/22/02C	C. Trottier, RES
4. Submit quarterly report to Commission (200000039)	4/15/02C	F. Cardile, IMNS
5. SECY paper on results of NAS study, technical basis, and recommendations	7/15/02C	F. Cardile, IMNS
6. Commission briefing	TBD	F. Cardile, IMNS
6. 7. Provide final NUREG-1640 to NMSS for review on individual doses, incorporating public comments.	11/02	C. Trottier, RES

Through June 2003		
Milestones	Date	Lead
7. Submit for Commission approval a proposed rulemaking schedule. TBD	1/21/03	F. Cardile, IMNS

Beyond June 2003		
Milestones	Date	Lead
TBD		

Comments:

6. ~~The need for a Commission briefing will be determined following the outcome of the Commission's review of the SECY paper in milestone 5.~~

6.7. Although individual sections will be delivered to NRC starting in May 2002, significant effort has been expended in acquiring data to resolve comments and update the report. Some scenarios had to be re-analyzed and others added, hence, the work on steel, aluminum and copper scenarios has been more complex than expected. Additional time is needed to resolve comments and provide a document with realistic estimates. Word changes are to make the entry consistent with the Operating Plan. The final pre-publication version will be available for use by NMSS on this schedule. Publication of this complex document is expected by December but could take longer.

The receipt of extensive comments on Chapter 4 of the final pre-publication version of NUREG-1640 (first chapter submitted) and due to an extended absence of the contractor's principal investigator have resulted in a delay of the deliverable.

**VII. Topic Area: Materials and Waste Programs****J. Part 73 Rulemaking: Spent Fuel Shipment Information Protection Requirements**

SES Manager: Patricia Holahan, ~~Cornelius Holden~~, Acting Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Charles L. Miller, Deputy Director, Licensing and Inspection Directorate,  
Spent Fuel Project Office (SFPO)

Objective: This rule would require licensees to notify federally recognized Native American tribes of certain radioactive waste shipments, including spent nuclear fuel, before shipments are transported to or across the boundary of tribal lands.

Coordination: OSTP, OE, OGC, NRR

Prior to December 2002		
Milestone	Date	Lead
1. Rulemaking plan to Commission for approval (199900123) SECY 01-0021	2/02/01C	R. Broseus, IMNS
2. Proposed rule to Commission (199900123)	On hold	R. Broseus, IMNS

Through June 2003		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
3. Final rule to Commission (199900123)	One year after end of public comment period	R. Broseus, IMNS

Comments:

2. This rulemaking is put on hold due to activities and considerations following the September 11, 2001, terrorist attack. The status will be reflected in the next update of Rulemaking Activity Plan (RAP).

**VII. Topic Area: Materials and Waste Programs****K. Part 71 Rulemaking: Packaging and Transportation of Radioactive Material**

SES Managers: Patricia Holahan, ~~Cornelius Holden~~, Acting Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Charles L. Miller, Deputy Director, Licensing and Inspection Directorate,  
Spent Fuel Project Office (SFPO)

Objectives: To prepare a rule to revise Part 71 to: (1) make it compatible with the IAEA Transportation Standards, (2) revise the fissile material exempt and general license provisions to address any unintended economic impact caused by the 1997 emergency final rule, and (3) implement other changes directed by NRC Management (in accordance with Commission's SRM - SECY-99-200 dated 9/17/99).

Prior to December 2002		
Milestone	Date	Lead
1. Revised Commission paper to the Commission (199800008) (SECY-00-0117)	5/31/00C	N. Tanious, IMNS
2. Proposed rule to Commission (199800008) (SECY-01-0035)	3/02/01C	N. Tanious, IMNS
3. Proposed rule package to SECY for publication (199800008)	3/22/02C	N. Tanious, IMNS
4. Proposed rule published.	04/30/02C	N. Tanious, IMNS
5. Conduct two public meetings during comment period	06/04/02C 06/24/02C	N. Tanious, IMNS

Through June 2003		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead

Beyond June 2003		
6. Final rule to Commission (199800008)	07/29/03	N. Tanious, IMNS

Comments:

6. This is one year after the end of the public comment period.



**VII. Topic Area: Materials and Waste Program****L . Part 70 Rulemaking: Domestic Licensing of Special Nuclear Material**

SES Manager: Daniel Gillen, Chief, Fuel Cycle Facilities Branch) (FCFB),  
Division of Fuel Cycle Safety and Safeguards (FCSS)

Project Manager: ~~Yawar Faraz~~ Bill Gleaves, FCFB/FCSS

Objectives: Now that the amendments to Part 70 have been published (65 FR 56211 dated September 18, 2000) the objective is to complete the associated guidance documents.

The amendments to Part 70, identify appropriate consequence criteria and the level of protection needed to prevent or mitigate accidents that equal or exceed these criteria; require affected licensees to perform an integrated safety analysis (ISA) to identify potential accidents at the facility and the items relied on for safety necessary to prevent these potential accidents and/or mitigate their consequences; require the implementation of measures to ensure that the items relied on for safety are available and reliable to perform their function when needed; require the inclusion of the safety bases, including a summary of the ISA, with the license application; and allow for licensees to make certain changes to their safety program and facilities without prior NRC approval.

Coordination: The Part 70 guidance development has involved and will continue to involve close coordination with the stakeholders. These include representatives of the fuel cycle industry, DOE, private citizens, and other groups who declare an interest. OGC will be consulted as legal matters arise.

NMSS' Risk Task Group will be informed of new guidance, such as the Standard Review Plan, that defines acceptable licensee responses to the rule's requirements to evaluate and manage risk.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Final rule and draft Standard Review Plan to Commission (199500041) (SECY-00-0111)	5/19/00C	A. Persinko, FCSS
2. Develop guidance document regarding §70.62 ISA plans	2/06/01C	T. Cox, FCSS
3. Develop guidance document regarding §70.74 reporting requirements.	3/30/01C	M. Lamastra, FCSS
4. Final Standard Review Plan	12/14/01C	Yawar Faraz, FCSS

Through June 2003		
Milestone	Date	Lead
5. Develop guidance document for §70.76 Backfitting	12/02	Yawar Faraz Bill Gleaves, FCSS

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

Stakeholder agreement on the contents of the Standard Review Plan (SRP) was achieved in November 2001. The NRC staff finalized the SRP in December 2001, and made it available from the NRC website in mid-January 2002. The staff published the SRP as NUREG-1520 on March 29, 2002. The NMSS Risk Task Group was significantly involved with the finalization of the SRP chapter on ISAs.

**VII. Topic Area: Materials and Waste Programs****M. Develop Rulemaking for Parts 40, 75, 110, and 150 (Implement IAEA Safeguards Agreement)**

SES Managers: Patricia Holahan, ~~Cornelius Holden~~, Acting Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Catherine Haney, Deputy Director, Division of Nuclear Safety, Office of Nuclear Security and Incident Response (NSIR)

Objective: To incorporate into NRC's regulations the requirements contained in a new Protocol agreement with the International Atomic Energy Agency.

Coordination: OIP, OSTP, OGC

Draft rulemaking plan was sent for Agreement State review on February 8, 2000.

Prior to December 2002		
Milestone	Date	Lead
1. Submit options paper to Commission (SECY-01-0164) (200100047)	8/24/01C	B. Moran, FCSS
2. Submit supplement memo to SECY-01-0164 to Commission	1/25/02C	B. Moran, FCSS

Through June 2003		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
3. Submit final rulemaking plan to Commission for approval (199900118)	6 months after US Government assignment on responsibility	P. Eng, IMNS
4. Submit proposed rule to Commission for approval (199900118)	9 months after Commission approves Rulemaking plan	P. Eng, IMNS

Comments:

- 3, 4. Awaiting US Government assignment on responsibility after Commission decision on SECY-01-0164 and supplement.

**VII. Topic Area: Materials and Waste Programs****N. Mixed Oxide (MOX) Fuel Facility Licensing**

SES Manager: Melvyn N. Leach, Chief, Special Projects and Inspection Branch, FCSS

Project Manager: Andrew Persinko, SPIB/FCSS

Objective: To review license applications for the construction and operation of the MOX fuel fabrication facility and to prepare an Environmental Impact Statement.

Coordination: NMSS has the agency lead for coordination with the MOX consortium and internally with NRR, RES, OIP, and ADM on issues concerning MOX fuel fabrication licensing and subsequent irradiation. OGC will be consulted on legal matters regarding MOX.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Initiate review of construction authorization application received 3/1/01	3/1/01C	A. Persinko, FCSS
2. Issue Notice of Intent for environmental impact scoping meetings	3/07/01C	T. Harris, DWM
3. Complete acceptance review of construction authorization application	3/28/01C	A. Persinko, FCSS
4. Conduct environmental impact scoping meetings	4/17/01C 4/18/01C 5/08/01C	T. Harris, DWM
5. Issue environmental impact statement scoping meeting summary report for MOX fuel fabrication facility	8/09/01C	J. Davis, DWM
6. Issue draft safety evaluation report for MOX fuel fabrication facility	4/30/02C	A. Persinko, FCSS
7. Initiate review of supplemental environmental report	7/11/02C	T. Harris, DWM
8. Hold public meeting near the site to discuss the NRC's draft safety evaluation report	8/28/02C	A. Persinko, FCSS
9. Initiate review of supplemental construction authorization request supplement	10/31/02C	A. Persinko, FCSS

<b>Through June 2003</b>		
Milestone	Date	Lead
10. Issue draft environmental impact statement for MOX fuel fabrication facility for public comment	2/03	T. Harris, DWM
11. Issue revised draft safety evaluation report for the MOX fuel facility	4/03	A. Persinko, FCSS

<b>Beyond June 2003</b>		
Milestone	Date	Lead
12. Issue final safety evaluation report, Record of Decision and licensing decision on MOX fuel fabrication facility construction authorization application	9/03	A. Persinko, FCSS T. Harris, DWM

Comments:

This program depends on a number of factors outside of NRC control, including national policy, DOE funding, and Russian progress on dispositioning excess plutonium.

- 6- 11. On February 13, 2002, the applicant informed NRC: 1) about changes to the MOX facility that result from DOE-announced changes to the surplus plutonium disposition program, and 2) that it will be supplementing its application for construction authorization in October 2002 and its Environmental Report in July 2002.

## **VII. Topic Area: Materials and Waste Programs**

### **O. Risk-Informed and Performance-Based Oversight Program for Fuel Cycle Facilities**

SES Manager: Melvyn Leach, Chief, Special Projects and Inspection Branch (SPIB),  
Division of Fuel Cycle Safety and Safeguards (FCSS)

Program Manager: William Troskoski, Inspection Section, SPIB/FCSS

Objective: To develop and implement a revised oversight program for fuel cycle facilities that is more risk-informed and performance-based. The revised oversight program is intended to: maintain safety and national security; increase public and other stakeholder confidence; increase effectiveness, efficiency and realism; and reduce unnecessary regulatory burden. Revision of the oversight program will address risk-informed inspections, assessment of licensee performance, and communication of risk significant performance to the licensee, public, and other stakeholders.

Coordination: NMSS solicited public and other stakeholder views in the development of the revision to the oversight program. Program development was coordinated with NMSS organizations; Regions II, III, and IV; NRR; NSIR; OPA; OCA; OSTP; OE; and OGC. Program development has also been integrated with other NRC initiatives, such as described in CTM items II.A., Risk-Informed Oversight Program (for reactors), and VII.L, Part 70 Rulemaking, to ensure the revised oversight program will comport with emerging requirements, guidance, and policies pertaining to fuel cycle facilities.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Revise Inspection Manual Chapter (IMC) 2604, Licensee Performance Review (LPR).	6/27/02C	W. Troskoski, FCSS
2. Issue revised IMC 2600, Fuel Cycle Inspection Program.	09/30/02C	W. Troskoski, FCSS

<b>Through June 2003</b>		
Milestone	Date	Lead
None		

<b>Beyond June 2003</b>		
Milestone	Date	Lead

Beyond June 2003		
None		

Comments:

2. This project will be closed at the end of FY 2002. Beginning in FY 2003, risk-informed revisions to the fuel cycle oversight program's inspection procedures will be made during normal updates of the inspection program, commensurate with the implementation of the Part 70 revisions. The Commission was informed of the staff's change in approach by memorandum dated 03/18/02. Manual Chapter 2600 became effective 9/30/02. Distribution and the electronic update are in progress.



**VII. Topic Area: Materials and Waste Programs****P. Material Protection, Control, and Accounting (MPC&A)****1) MPC&A Regulatory Program Support to Russia, Ukraine, and Kazakhstan**

SES Manager: Catherine Haney, Deputy Director, Division of Nuclear Security (DNS),  
Office of Nuclear Security and Incident Response (NSIR)

Project Manager: Michael Kelly, Materials Safeguards Section, DNS/NSIR (MPC&A)  
Nancy Fragoyannis, Materials Safeguards Section, DNS/NSIR (Physical  
Protection)

Objective: To provide MPC&A regulatory program support to the regulatory agencies of  
Russia, Ukraine, and Kazakhstan.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Commission paper on the status of the NRC's MPC&A support efforts under the Department of Energy's Interagency Agreement funding (200100036) (SECY-02-0024)	2/1/02C	M. Kelly, NSIR
2. Meet with the regulatory agencies of Russia, Ukraine, and Kazakhstan. (SRM on SECY-02-0024)	7/31/02	M. Kelly, NSIR
3. Based on regulatory agency meetings, determine if NRC should continue to provide MPC&A support to any of these countries. Provide results of the determination to the Commission, while addressing issues identified in SECY-02-0024 SRM dated 2/22/02.	8/30/02	M. Kelly, NSIR

<b>Through June 2003</b>		
Milestone	Date	Lead
None		

<b>Beyond June 2003</b>		
Milestone	Date	Lead
4. Future work to be determined, resulting from milestone 3 above.	TBD	M. Kelly, NSIR

Comments:

In July 2000, the NRC signed an Interagency Agreement with DOE to continue MPC&A support to the regulatory agencies of Russia, Ukraine, and Kazakhstan. With the exception of providing

limited direct support to DOE in its MPC&A support program activities to Russia, limited progress to date has occurred with regard to the NRC's providing direct assistance to Russia. Discussions continue with DOE management to pursue funding for Ukraine and Kazakhstan. On March 22, 2002, an SRM was issued pertaining to SECY-02-0024, directing the staff to meet with the three regulators. From these meetings, NSIR will determine which MPC&A projects identified by the regulators, if any, merit NRC support. After these meetings, the staff is directed to provide the Commission with a paper on any identified needs of these countries for NRC MPC&A support, and address the following three issues for any candidate projects to be funded by other than DOE or Freedom Support Act Funds: 1) whether the needs are, or can be met, by other agencies/organizations; 2) the estimated level of NRC funding needed to support all or part of each project; and 3) the impact of NRC funded projects on DOE's program. SECY provided a due date of August 23, 2002, for staff to address all of the SRM directives.

**VII. Topic Area: Materials and Waste Programs****P. Material Protection, Control, and Accounting (MPC&A)****2) Part 74 Rulemaking: Material Control and Accounting**

SES Manager: Patricia Holahan, ~~Cornelius Holden~~, Acting Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Catherine Haney, Deputy Director, Division of Nuclear Safety, Office of Nuclear Security and Incident Response (NSIR)

Objective: To amend the material protection, control and accounting (MPC&A) requirements. The reporting requirements for submitting Material Balance Reports and Inventory Composition Reports are being revised to reduce unnecessary regulatory burden on licensees. The remaining MPC&A requirements are being relocated to Part 74 (from Part 70) and the requirements for Category II facilities are being more risk-informed.

Coordination: OGC

Prior to December 2002		
Milestone	Date	Lead
1. Proposed Rule to Commission (200000088) (SECY-01-0066)	4/20/01C	M. Horn, IMNS
2. Publish proposed rule (200000088) (66 FR 29251)	5/30/01C	M. Horn, IMNS
3. Final rulemaking package to Commission (200000088)	8/20/02 10/2/02C	M. Horn, IMNS

Through June 2003		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
None		

Comments:

3. ~~The package was provided to the EDO on 8/20/02.~~

**VIII. Topic Area: Changes to NRC's Hearing Process****A. Use of Informal Adjudicatory Procedures**

SES Manager: Joe Gray, OGC

Objective: Streamline the hearing processes required by Part 2 of the regulations for license applications and amendments.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Commission decision on proposed rulemaking	2/16/01C	OGC S. Treby
2. Publish proposed rules for comment	4/16/01C	OGC S. Treby
3. Comment period ends	9/14/01C	OGC S. Treby
4. Submit Final rules to Commission	4/26/02C	OGC S. Treby
5. Commission approves/affirms final rules	TBD	OGC S. Treby
6. Publish final rules in Federal Register	TBD	OGC S. Treby
7. Final Rules effective	TBD	OGC S. Treby

<b>Through June 2003</b>		
Milestone	Date	Lead
None		

Comments:

3. Comment period was extended from 7/15/01 to 9/14/01.
4. Receipt of comments was impacted due to events from 9/11. Final rule date changed. Additionally, a large number of comments were received which also impacted the due date for the final rules.
- 5-7. The final rules will be effective 30 days after approval by the Commission.

**IX. Topic Area: State Programs****A. Agreement with the State of Pennsylvania**

SES Manager: Josephine Piccone, Deputy Director, Office of State and Tribal Programs

Objective: To enter into an Agreement with the State of Pennsylvania pursuant to Section 274b of the Atomic Energy Act, as amended.

Prior to December 2002		
Milestone	Date	Lead
None		

Through June 2003		
Milestones	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
1. Pennsylvania Governor to file application for an Agreement	03/02/04	R. Blanton, STP
2. Negative consent paper to Commission (199900121)	06/15/04	R. Blanton, STP
3. Negative consent SRM to publish proposed agreement	06/29/04	
4. Commission paper reconsidering final agreement (199900121)	10/19/04	R. Blanton, STP
5. Commission SRM approving the Agreement	11/02/04	
6. Agreement effective	11/30/04	

Comments:

In an e-mail dated May 28, 2002, from David Allard, Program Director, Pennsylvania indicated that the formal request by the Governor for an Agreement will be delayed for 18 months until March 2004. The reasons stated for the delay include Commonwealth personnel resource limitations. Based on this e-mail, the projected effective date for the Agreement is early FY 2005

**IX. Topic Area: State Programs****B. Agreement with the State of Wisconsin**

SES Manager: Josephine M. Piccone, Office of State and Tribal Programs

Objective: To enter into an Agreement with the State of Wisconsin pursuant to Section 274b of the Atomic Energy Act, as amended.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
None		

<b>Through June 2003</b>		
Milestones	Date	Lead
1. Wisconsin Governor to file application for an Agreement	09/09/02	L. Bolling, STP
2. Negative consent paper to Commission (200100090)	12/23/02	L. Bolling, STP
3. Negative consent SRM to publish proposed agreement	01/06/03	
4. Commission paper reconsidering final agreement (200100090)	04/14/03	L. Bolling, STP
5. Commission SRM approving the Agreement	05/12/03	

<b>Beyond June 2003</b>		
Milestone	Date	Lead
6. Agreement effective	7/01/03	

Comments:

Target dates have changed based on a February 11, 2002 letter from Paul Schmidt, Wisconsin.

**IX. Topic Area: State Programs****C. Agreement with the State of Minnesota**

SES Manager: Josephine M. Piccone, Office of State and Tribal Programs

Objective: To enter into an Agreement with the State of Minnesota pursuant to Section 274b of the Atomic Energy Act, as amended.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Minnesota Governor to file application for an Agreement	10/29/02	C. Maupin, STP

<b>Through June 2003</b>		
Milestones	Date	Lead
1. Negative consent paper to Commission (200100091)	02/14/03	C. Maupin, STP
2. Negative consent SRM to publish proposed agreement	02/28/03	
3. Commission paper reconsidering final agreement (200100091)	06/06/03	C. Maupin, STP

<b>Beyond June 2003</b>		
Milestone	Date	Lead
1. Commission SRM approving the Agreement	07/07/03	
2. Agreement effective	08/04/03	

Comments:

The State of Minnesota has revised its schedule for submission of an Agreement per e-mail from the State dated 7/9/02.



**X. Topic Area: NRC Administration and Support Functions****A. Agency-wide Documents Access and Management System (ADAMS)**

SES Manager: Lynn B. Scattolini, OCIO/ADAMS

Program Manager: Lynn B. Scattolini, OCIO/ADAMS

Objective: To execute tasks in the ADAMS program plan to improve ADAMS functionality, reliability, and document and data integrity. ADAMS supports electronic document creation or capture, distribution, records management, and search and retrieval by both NRC staff and the public.

Coordination: CIO is coordinating with senior managers, the ADAMS Working Group, and office and regional management as necessary to implement policy/procedural changes and software upgrades.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Transfer responsibility for completing the processing of staff generated documents to OCIO	7/01C	L. Scattolini, OCIO
2. Complete development and deploy ADAMS Version 3.3	9/01C	A. Levin, OCIO
3. Deploy ADAMS legacy library	Schedule to be established in 11/02	J. Schaeffer, OCIO
4. Implement ADAMS as an electronic recordkeeping system. Begin filing records electronically. Obtain NARA approval of record schedules.	3/02C	L. Scattolini, OCIO
5. Complete development and deploy ADAMS Version 4.0	<del>10/02</del> 12/02	J. Schaeffer, OCIO

<b>Through June 2003</b>		
Milestone	Date	Lead
None		

Beyond June 2003		
Milestone	Date	Lead
6. Improve ADAMS data integrity by completion of cleanup of ADAMS database	08/04	L. Scattolini, OCIO

Comments:

3. Staff has converted all legacy data from the NUDOCS and PDR's legacy system to the ADAMS Legacy Library for the NRC staff and the public. A final checkout of the system is being conducted prior to deployment. ~~Three performance issues have been identified that require resolution. Because two of them require a change in the custom code and need to be installed on users' desktops, they cannot be deployed until the next planned desktop release of ADAMS.~~ In addition, data migration issues have been analyzed, and the significant ones that require action prior to system deployment are being resolved. Plans are to have a group of NUDOCS users from the offices do further testing on the system and provide input into the disposition of other data migration issues. In order to minimize the risks related to the deployment of ADAMS Version 4.0, we will first deploy ADAMS 4.0 (see comment 5), and then establish a schedule in November 2002 for deploying the ADAMS Legacy Library.
5. ~~In preparing for ADAMS 4.0, we completed an interim upgrade of ADAMS underlying COTS product in February 2002. This was the first time we performed such an upgrade in coordination with FileNET, the product vendor. Based on resources expended and time taken, we are working with FileNET to establish a more robust upgrade project team and procedures for moving to ADAMS Version 4.0. We have met with the product vendor and custom code maintenance contractor and established an integrated project plan with an ADAMS Version 4.0 completion date of October 2002. OCIO has conducted a production stress test of ADAMS Version 4.0 with positive results. In preparation for the 4.0 implementation, desktop software has been deployed to all agency workstations. The Main Library for NRC staff and the Public Library were successfully upgraded to ADAMS Version 4.0. Work is underway to reactivate full-text indexing. At this time, the ADAMS Version 4.0 implementation is on schedule.~~

OCIO has made substantial progress toward the development and deployment of ADAMS 4.0. OCIO successfully deployed a new software release at the desktop and at the Main Library and Public Library Servers. The new release provided users with improved performance and some additional software features. OCIO acquired an additional powerful, easy-to-use search engine, designed the user interface, and is in the process of testing the software outside the NRC firewall. This prototype application will provide the public with Web-based access to ADAMS public documents. OCIO also re-indexed the ADAMS Main Library and Public Library and is conducting acceptance testing. Once testing is complete, we will announce the availability of full-text searching.

6. Since the ADAMS Assessment Action Plan was prepared, OCIO has performed an assessment of the condition of the database, defined what cleanup needs to be done, and estimated how long it will take. OCIO is standardizing the data allowed for certain fields (docket, document type code, author affiliation, recipient affiliation, and some types of titles) and then modifying all applicable existing data values to conform with them. This approach will ensure consistent data in the future. Considerable progress has been made. (The docket and title fields are complete and 6,000 of the approximately 17,000 author and recipient affiliations that existed prior to controlling the lists of acceptable values for these fields have been reviewed and, when appropriate, edited). ~~On average, 30 values a day were added to, or edited in the Controlled Value Lists. Given the level of resources being applied to cleanup, we~~ We estimate completion of all work by August 2004.

**X. Topic Area: NRC Administration and Support Functions****B. Strategic Workforce Planning (SWP)**

SES Manager: James McDermott, Deputy Director, Office of Human Resources

Project Manager: Len Reidinger, Chief, Specialized Training and Support, Office of Human Resources

Objective: Take steps to plan for, acquire, develop, maintain, deploy and retain NRC's core scientific, engineering and technical staff capacity in support of current and future NRC strategic goals.

Coordination: Staff will coordinate with EDO, NMSS, NRR, RES, CIO, CFO, OGC, and other NRC offices as appropriate.

<b>Prior to December 2002</b>		
Milestone	Date	Lead
1. Submit Action Plan for Maintaining Core Competence	1/31/01C	Bird/ McDermott
2. Survey Program Office Directors (NRR, NMSS, RES) on critical skill needs for current, FY 2003 PBPM cycle, and future needs	2/28/01C	Bird/ McDermott/ Office Directors
3. Analyze Office Director survey results and identify skill gaps	3/31/01C	Lee
4. Develop and implement sourcing strategies to address skill gaps identified by Office Directors	3/31/01C	Lee
5. Survey selected NRR, NMSS, and RES Branch/Section Chiefs on critical skill needs for current and future needs	4/30/01C	Lee
6. Brief PRC on Core Competency/Human Capital Initiatives and funding requirements for FY 2002 and FY 2003	4/27/01C	Bird/McDermott
7. Develop pilot skills survey to assess core competencies within selected NRR, NMSS, RES branches/sections	5/23/01C	Lee
8. Conduct pilot skills survey within selected branches/sections in NRR, NMSS, and RES	6/29/01C	Lee
9. Evaluate both commercial off-the-shelf (COTS) automated strategic workforce planning (SWP) software tools and alternative software means of automating SWP data collection, needs assessment, and workforce analysis	8/31/01C	Reidinger

10. Analyze branch/section pilot survey results and identify skill gaps	9/28/01C	Reidinger
11. Determine automated software tools to be used for both interim and longer-term strategic workforce planning (COTS or alternative means of automating SWP data collection, needs assessment, and workforce analysis)	8/31/01C	Reidinger
12. Identify with Office Directors and Regional Administrators critical skill needs, skill gaps, and gap closure strategies for the FY 2004 PBPM cycle	4/02C	Bird/McDermott Reidinger Office Directors
13. Evaluate pilot implementation of skills survey to assess core competencies and incorporate lessons learned as appropriate	11/30/01C	Bird/McDermott Reidinger Office Directors
14. Implement employee self-assessment on-line skills survey for staff in Engineering, Scientific, and Technical Occupational Series	6/10/02C	Reidinger
15. Implement employee self-assessment on-line skills survey for staff in Occupational Series not defined in item 14	7/15/02C	Reidinger

Through June 2003*		
Milestone	Date	Lead
16. Evaluate SWP software for applicability as long term solution.	6/03	Reidinger

Beyond June 2003*		
Milestone	Date	Lead
17. Evaluate SWP software for applicability as long term solution.	6/04	Reidinger

\*Subject to funding

Comments:

**XI. Topic Area: Nuclear Security****A. Reactor Safeguards Initiatives**

SES Manager: Glenn Tracy, Director, Division of Nuclear Security (DNS), Office of Nuclear Security and Incident Response (NSIR)

Objective: Revise physical security requirements to require power reactor licensees to identify target sets of equipment that must be protected to maintain safe operation or shutdown of the plant, develop protective strategies to protect against an armed assault by the design basis threat of radiological sabotage, and exercise these strategies periodically. Conduct a pilot of the Safeguards Performance Assessment (SPA) program, an industry initiative, and incorporate lessons learned in the rulemaking effort. Update power reactor safeguards and security regulatory guidance for the revision to 10 CFR Part 73.55 requirements.

Coordination: NRR, NMSS

<b>Through June 2003</b>		
Milestone	Date	Lead
1. Proposed rule published in the Federal Register with a 75-day comment period	TBD	C. Nolan, NSIR
2. Resolution of public comments	TBD	C. Nolan, NSIR
3. Final rule ACRS Briefing	TBD	C. Nolan, NSIR

<b>Beyond June 2003</b>		
Milestone	Date	Lead
4. Final rule CRGR Briefing	TBD	C. Nolan, NSIR
5. Final rule to EDO (199800188)	TBD	C. Nolan, NSIR
6. Final rule to Commission	TBD	C. Nolan, NSIR
7. Initiate SPA pilot program	TBD	C. Nolan, NSIR
8. Completion of SPA pilot program	TBD	C. Nolan, NSIR
9. Publication of final rule	TBD	C. Nolan, NSIR
10. Lessons Learned from SPA pilot (200100060)	TBD	C. Nolan, NSIR

Comments:

In SECY-02-0104, dated June 14, 2002, the staff informed the Commission of its strategy for completing a comprehensive review of the NRC's safeguards and security program. The staff is continuing this integrated review, which includes threat definition, vulnerability assessments, and regulatory improvements.

- 7, 8, 10. SECY-01-0060, "The Safeguards Performance Assessment (SPA) Pilot Program," was issued on April 5, 2001. This paper informed the Commission of implementation and policy issues associated with the initiation of the pilot program. The SRM for SECY-01-0060 was issued on July 5, 2001, and approved the SPA pilot program. Since the terrorist attacks on September 11, 2001, the industry has been operating at Security Level 3, with significant NRC oversight. As a result, the inspection activities associated with force-on-force drills and exercises have been suspended, including the initiation of the SPA pilot program.
- 1 - 6, 9. The staff issued SECY-01-0101 on June 4, 2001, which discussed extending the schedule for completing the final rule until June 2003, from the current date of November 2002, in order to take full advantage of the lessons that can be learned from completion of the one-year SPA pilot program. In accordance with an SRM dated October 30, 2001, SECY-01-0101 has been withdrawn to allow the staff to consider whether the events of September 11, 2001, would require revision of the staff's proposed rule in SECY-01-0101.