

March 21, 2002

MEMORANDUM TO: Chairman Meserve

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

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

Attached for your information is the February 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 January 2002 update are highlighted by redline and strikeout markings.

Since the last update, the staff completed the following significant milestones:

1. Provided the final round of comments to the Nuclear Energy Institute on its guidance document, NEI 00-04, related to risk-informing Part 50 (Option 2).
2. Developed a process for RES review of NRR safety evaluations.
3. Issued the Supplemental SER for the Turkey Point license renewal application.
4. Completed the review of the Sandia National Laboratory test protocols for impact and fire tests related to spent fuel transportation.
5. Published the revised final policy statement for the West Valley Decommissioning Criteria.

Since the January 2002 update, there were schedule changes associated with several ongoing NRC staff activities, including: (1) completion of the staff review of the Davis-Besse power uprate amendment request; (2) submitting a SECY paper to the Commission on the status of pre-application activities for the PBMR; (3) submitting a SECY paper to the Commission on technical and policy issues for the PBMR; (4) completion of license transfer orders for the Pilgrim, North Anna, Surry, and Millstone nuclear power plants; (5) issuance of the Part 71 Safety Evaluation Report and Certificate of Compliance for the NAC-UMS cask; and (6) deployment of the ADAMS Legacy Library.

Attachment: As stated

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

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EDO Staff  
EDO R/F  
DEDR R/F

**STAFF RESPONSE TO TASKING MEMORANDUM AND STAKEHOLDER CONCERNS**  
**as of February 28, 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: Cynthia Carpenter, 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 June 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	NA
3. Initiate pilot program	3/01C	M. Shuaibi, DLPM
4. Provide final round of comments to NEI on NEI 00-04	<del>2/13/2002</del> 2/08/02C	T. Reed, DRIP

<b>Through December 2002</b>		
Milestone	Date	Lead
5. Submit proposed rulemaking to Commission (199900061)	07/31/02	T. Reed, DRIP
6. Provide proposed rule to House and Senate Appropriations Committees one month after Commission approval (199900061)	SRM + 1 month	T. Reed, DRIP

<b>Beyond December 2002</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:

3. During the June 27, 2001, public meeting with NEI, the staff indicated that there were no major issues that couldn't be resolved regarding the categorization portion of the guidance and that pilot effort (which focuses predominantly on the categorization portion of Option 2) could proceed. ~~Of the three owners groups participating (i.e., BWROG, CEOG, WOG), the BWROG has progressed the furthest, having completed the initial categorization of the pilot systems (using the December 2000 draft version of NEI 00-04).~~ **Three owners groups are participating in the pilot effort: BWROG, CEOG, and WOG.** The BWR pilot (Quad Cities) held its integrated decision-making panel (IDP) on August 15 and 16, 2001, which the staff observed. ~~One of the~~ **The** WOG pilot plants (Wolf Creek **and Surry**) held its IDPs on October 24-25, 2001, **and February 4, 2002, respectively** which the staff also observed. Both the staff and industry are continuing to develop a pilot activities plan. Two other pilot plant IDP's have been scheduled (Surry beginning February 4, 2002 and Palo Verde beginning March 12, 2002). **The IDP for the CEOG pilot (Palo Verde) will take place during March 2002.**
4. ~~The staff is currently developing its comments on draft revision B of NEI 00-04 and plans to provide these comments to NEI in early February 2002. The staff does not plan to provide comments on the treatment part of the guidance.~~ **The staff sent NEI its third round of comments on February 8, 2002.**
5. The staff previously estimated that it would provide the proposed rule package to the Commission in April 2002. Our current estimate is that the proposed rule will be forwarded to the Commission for approval by July 31, 2002.

The comment period on the draft rule language ended on December 31, 2001. Seven sets of comments were submitted. The staff is considering revisions to the draft rule language to respond to issues raised by the commenters and plans to repost the rule language on the NRC's website for information, in ~~February 2002~~ **March 2002.** **This draft of the rule language forms the basis for the proposed rule.**

**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 June 2002</b>		
Milestone	Date	Lead
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)	07/23/01C	M. Drouin, RES

<b>Through December 2002</b>		
Milestone	Date	Lead
6. Complete technical work on ECCS reliability requirements for 50.46	06/02	M. Drouin, RES
7. Prepare draft revision to Reg. Guide 1.157 to incorporate performance-based ECCS evaluation model and acceptance criteria for 50.46	07/02	R. Meyer, RES

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

- ~~6. Date revised due to the NRC website being taken offline delaying the collection of needed information and the temporary reassignment of contractor staff to work on the vulnerability assessment.~~

**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 June 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	<del>02/02</del> 03/02	M. Drouin, RES

<b>Through December 2002</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

<b>Beyond December 2002</b>		
Milestone	Date	Lead
7. Final PRA standard on LPSD published by ANS	06/03	M. Drouin, RES

Comments:

4. Finalization of ASME standard is now estimated (by ASME) to be in February ~~January~~ ~~February~~ ~~March~~, 2002.

**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 June 2002</b>		
Milestone	Date	Lead
1. Develop revised PTS risk acceptance criterion (199900115) (SECY-00-0140)	6/23/00C	N. Siu, RES
2. Provide next updated status on PTS reevaluation to Commission (199900115)	09/28/01C	D. Jackson, RES
3. Present details of revised PTS methodology to ACRS	01/15-16/02C	E. Hackett, RES
4. Develop integrated PTS risk estimate for study plants.	05/02	H. Woods, RES
5. Publish NUREG/CR report describing a generic flaw density and size distribution	06/02	D. Jackson, RES

<b>Through December 2002</b>		
Milestone	Date	Lead
6. Complete analyses and draft technical basis for revision of PTS rule.	11/02	M. Kirk, RES
7. Present the technical basis for proposed changes in 10 CFR 50.61 PTS screening criterion to ACRS	07/02 12/02	S. Malik, RES

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

5. ~~Revised date is due to the Project Manager having been temporarily reassigned to work on vulnerability assessment.~~
7. Date revised due to changes in availability of key staff and contractor personnel addressing post 9/11 events, change of subcontractor due to conflict of interest, and increased effort in quality assurance.

**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 June 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)	4/5/02	B. Westreich, OE
9. Final Staff Recommendation to Commission regarding use of Alternative Dispute Resolution (ADR) in Enforcement (200000070)	4/12/02	T. Reis, OE C. Cameron, OGC

<b>Through December 2002</b>		
Milestone	Date	Lead
10. Recommendations regarding the Discrimination Task Group Report to the Commission (200000090)	6/28/02	B. Westreich, OE

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

8. The SRM issued 11/7/01 re SECY-01-0176 directed the Discrimination Task Group (DTG) to await evaluation of comments received as a result of the FRN describing the use of Alternate Dispute Resolution (ADR) in harassment and intimidation cases before finalizing the DTG report. This notice was published on 12/13/01 for a 45-day comment period, which expired on 1/28/02. Public comments have been received, however, additional comments are expected, which should be received by the end of February 2002. Completion of the DTG report will require another month. Therefore, the DTG report due date to the EDO is now 4/5/02.
9. Following receipt and evaluation of all comments, a draft ADR policy will be prepared. The date is consistent with the time frame for review of the same comments by the DTG.  
A public workshop was held on March 12, 2002, in Gaithersburg, MD, to explore the potential use of ADR in the NRC enforcement process.
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 review and preparation of the Commission paper will require about 60 days. The date for delivery to the Commission will be 6/28/02.

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

SES Manager: Michael R. Johnson, 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 June 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
1. Issue Commission paper and brief Commission on the Revised Reactor Oversight Process results of the pilot program and staff recommendation for initial implementation (199900070)	3/00C	W. Dean, DIPM
2. Commence initial implementation of new reactor oversight process at all operating sites	4/00C	W. Dean, DIPM
3. Conduct internal lessons learned workshop to identify Revised Reactor Oversight Process initial implementation issues, propose recommendations to address these issues, and issues to be considered for discussion in the lessons learned public workshop	3/01C	W. Dean, DIPM
4. Conduct lessons learned public workshop to obtain stakeholder feedback on Revised Reactor Oversight Process initial implementation issues	3/01C	W. Dean, DIPM
5. Conduct end-of-cycle review meetings for each plant	5/01C	Regional Administrators

<b>Prior to June 2002</b>		
6. Conduct Agency Action Review Meeting to discuss agency response for plant performance assessment inputs	6/28/01C	M. Johnson, DIPM
7. Complete evaluation of implementation and effectiveness of the first year of implementation of the revised assessment process (199900070) including issuance of Commission paper (SECY-01-0114)	6/25/01C	M. Johnson, DIPM
8. Complete draft report on the assessment of human performance attributes derived from precursor events that could be incorporated into the inspection program	5/31/01C	J. Kramer, RES
9. Issue Commission paper on Industry Trends Program (200100034) (SECY-01-0111)	6/22/01C	M. Satorius, DIPM
10. Brief Commission on the results of initial implementation of the Revised Reactor Oversight Process (199900070)	7/20/01C	M. Johnson, DIPM
11. Conduct public meetings at all operating sites to discuss the results of plant performance	7/19/01C	Regional Administrators
12. Complete plant specific SDP notebooks for all plants	9/28/01C	J. Kauffman, RES
13. NRR and RES decision on direction of future RBPI program developments, including resolution of stakeholder comments on the Phase-1 RBPI report and consideration of a User Need letter for appropriate changes to the Phase-1 and Phase-2 RBPI reports.	10/01C	M. Johnson, NRR, S. Newberry, RES
14. Provide a summary report describing NRC's historical efforts related to development and use of performance indicators	1/31/02C	M. Satorius, DIPM
15. Provide status on SRM (Ref. M010720A) items with the annual ROP self-assessment results (200100034)	3/28/02	M. Johnson, DIPM
16. Issue SECY paper on the Industry Trends Program (200100034)	3/28/02	T. Boyce, DIPM
17. Issue annual SECY paper to the Commission on the Accident Sequence Precursor (ASP) program (199200101)	3/02	P. Baranowsky, RES
18. Conduct Agency Action Review Meeting	4/02	M. Johnson, DIPM

<b>Through December 2002</b>		
Milestone	Date	Lead
None		

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

13. Section III.B, "Risk-Based Performance Indicator Development," was archived in October 2001 because all milestone items have been completed. As agreed upon between RES and NRR, future milestones in this area will be added as appropriate based on the User Need Request and will be tracked under topic area III.A.

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

SES Manager: William Beckner, Branch Chief, RTSB/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 June 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	5/02	T. Le, DRIP
9. Issue iSTS Amendment for FitzPatrick	6/02	T. Le, DRIP

<b>Through December 2002</b>		
Milestone	Date	Lead
10. Issue iSTS Amendment for Prairie Island	7/02	C. Schulten, DRIP

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

9. ~~iSTS amendment date for FitzPatrick changed at the request of the licensee.~~

**IV. Topic Area: Reactor Licensing and Oversight****B. Decommissioning Regulatory Improvements**

SES Manager: Cynthia Carpenter, Program Director , RPRP /DRIP/NRR

Objective: Initiate rulemaking activities based on an integrated approach to decommissioning nuclear power plants as discussed in SECY-99-168.

Coordination: This issue requires close coordination with internal and external stakeholders, including NMSS and RES, interested individuals and public interest groups, various federal and state regulatory organizations, and the industry. Responsible staff, supervisors and managers are ensuring that each step in the development of the various milestones is evaluated for its need to have active participation by the stakeholders. There have been numerous meetings, correspondence and telephone conversations throughout the process with the stakeholders. Examples of stakeholder involvement have included placing public and industry representatives on the agenda for Commission meetings with the staff, stakeholder attendance and participation at decommissioning workshops, and various public meetings to provide input into the staff's regulatory development activities.

<b>Prior to June 2002</b>		
Milestone	Date	Lead
1. Submit an integrated, risk-informed rulemaking plan for decommissioning nuclear power plants that addresses emergency planning, insurance, safeguards, operator staffing & training, and possibly other areas (SECY-00-0145)	6/28/00C	B. Huffman, DRIP/RPRP
2. Technical staff to finalize decommissioning spent fuel pool draft study and risk objectives that can be used for decommissioning regulatory decision making (199900132)	12/20/00C	G. Hubbard, DSSA/SPLB
3. Submit policy options paper to the Commission (200000126)	TBD	B. Huffman DRIP/RPRP

<b>Through December 2002</b>		
Milestone	Date	Lead
4. Develop Commission memorandum providing supplemental information on safeguards issues and treatment of existing exemptions provided to EDO for signature (200100085)	TBD	P. Ray DRIP/RPRP
5. Submit a long-term plan of action for broad-scope decommissioning regulatory improvement (199900133)	TBD	D. Dudley DRIP/RPRP

6. Revise as necessary and resubmit the integrated decommissioning rulemaking plan based on conclusions of finalized decommissioning spent fuel pool risk study. (199900072)	TBD	B. Huffman, DRIP/RPRP
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<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

2. The Final Technical Study of Spent Fuel Pool Accident Risk at Decommissioning Nuclear Power Plants was forwarded to the Commission on December 20, 2000, and released to the public on January 19, 2001.
3. The staff briefed the ACRS on July 11, 2001, regarding the decommissioning policy issues contained in SECY 01-0100. Policy paper, SECY-01-0100, has been withdrawn per Commission memo dated 10/25/01 in consideration of the safeguards implications of the September 11, 2001 events. A schedule for resubmitting this paper will be developed in conjunction with findings and recommendations from the safeguards task force.
4. This paper has been returned to the staff in consideration of the September 11, 2001 events. The schedule for resubmitting this paper will be developed in conjunction with milestone 3.
- 5, 6. The long-term plan for broad-scope decommissioning regulatory improvement and the integrated decommissioning rulemaking plan schedule was to be provided to the Commission within 60 days of receiving the Commission response to the policy options paper, SECY-01-0100 dated June 4, 2001. The policy options paper has now been withdrawn in light of the 9/11/01 events and the staff memorandum to the Commission of 10/25/01. Until safeguards policy issues are reconsidered, the schedule for related decommissioning rulemaking activities cannot be determined.

**IV. Topic Area: Reactor Licensing and Oversight****C. Potassium Iodide (KI) Rule Implementation**

SES Manager: Glenn Tracy, Branch Chief, IRSB/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.

<b>Prior to June 2002</b>		
Milestone	Date	Lead
1. Publish Final Rule (199800173) (NRR)	1/19/01C	M. Jamgochian, DRIP
2. Provide draft NUREG-1633 to Commission (200100005) (NRR)	<del>TBD</del> 4/30/02	K. Halvey Gibson, DIPM
3. Publish final NUREG-1633	TBD	K. Halvey Gibson, DIPM
4. Provide draft public information brochure on use of KI to Commission for review (200100005) (NRR)	TBD	K. Halvey Gibson, DIPM
5. Provide final public information brochure on use of KI to FEMA for publication	TBD	K. Halvey Gibson, DIPM
6. Develop procedures, processes and guidance for KI program implementation	11/21/01C	K. Halvey Gibson, DIPM
7. Provide draft KI program implementation procedures, processes and guidance to Commission for review (20010020) (NRR)	11/21/01C	K. Halvey Gibson, DIPM
8. Provide final KI program implementation procedures, processes and guidance to FEMA for publication	12/18/01C	K. Halvey Gibson, DIPM
9. Develop final KI Federal policy FRN reflecting FRPCC review and send to Commission (199700193)	11/21/01C	K. Halvey Gibson, DIPM
10. Publish KI Federal Policy FRN	1/10/02C	K. Halvey Gibson, DIPM

Through December 2002		
Milestone	Date	Lead
11. Post bid for KI procurement	12/21/02C	DCPM/K. Halvey Gibson
12. Award contract for KI	2/1/02	K. Halvey Gibson/DCPM

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

2,3 The staff anticipates completion of NUREG-1633 for Commission review by 4/30/02.

6,7,8. In light of the September 11 terrorist attacks, the staff explored options of expediting the purchase of KI for States in advance of publication of the FDA final guidelines. The staff worked with Contracts, FEMA and the FDA to prepare an expedited KI procurement and supply process. The staff documented the process and requested Commission approval in SECY-01-0208, "Status of Potassium Iodide Activities" dated 11/21/01.

The FDA completed the process of public comment review and has prepared their KI guidance document for internal review and comment. The FDA published the KI final guidelines on December 11, 2002.

In a staff requirements memorandum dated December 18, 2001, the Commission approved the purchase of KI for distribution to requesting States, as discussed in SECY-01-0208.

On December 20, 2001 letters were sent to the State Liaison Offices announcing the NRC KI program. Instructions for application were included as was FDA guidance, FEMA guidance and NRC disclaimer.

9,10. The Federal Policy was published by FEMA in the Federal Register on January 10, 2002.

11,12. DCPM in support of NRR request, prepared and posted offering for KI procurement. Bids were received on January 9, 2002. ~~Expected contract award date is February 1, 2002.~~ The contract was awarded to Anbex, Inc. on February 1, 2002. As of February 21, 2002, the States of Maryland, Massachusetts, and New York have received KI shipments. KI tablets have been ordered for New Hampshire, Vermont, Connecticut, and Arizona. Florida and Alabama have submitted requests which have been forwarded to FEMA for a reasonableness review.

**IV. Topic Area: Reactor Licensing and Oversight****D. Reactor Fire Protection Risk-Informed, Performance-Based Rulemaking**

SES Manager: J. Hannon, Branch Chief, SPLB/DSSA/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 alternative to the existing requirements.

<b>Prior to June 2002</b>		
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

<b>Through December 2002</b>		
Milestone	Date	Lead
4. Brief ACRS fire protection subcommittee on rulemaking efforts	6/02	L. Whitney, SPLB
5. Brief CRGR on rulemaking efforts	6/02	L. Whitney, SPLB
6. Submit Proposed Rule to Commission (199900032)	7/09/02	L. Whitney, SPLB
7. Publish proposed rule change for public comment	11/02	L. Whitney, SPLB

<b>Beyond December 2002</b>		
Milestone	Date	Lead
8. Resolve public comments	5/03	L. Whitney, SPLB
9. Brief ACRS & CRGR on final rule	11/03	L. Whitney, SPLB
10. Submit final rule for Commission approval (199900032)	11/03	L. Whitney, SPLB

Comments:

2. 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 is proceeding with development of the proposed rule package and has placed draft rule text on the NRC Rulemaking Web site for early public comment.

**IV. Topic Area: Reactor Licensing and Oversight****E. Reactor Safeguards Initiatives**

SES Manager: Glenn Tracy, Chief, IRSB/DIPM/NRR

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: Issues IV.E. "Reactor Safeguards Initiatives," and VII.R. "Threat Assessment Activities," require close coordination between NRR and NMSS staff and the integration of specific tasks. Responsible project managers from both offices are coordinating these activities by incorporating insights from threat assessment activities, as applicable, into the ongoing considerations in revising power reactor physical security requirements.

<b>Prior to June 2002</b>		
Milestone	Date	Lead
1. Issue Commission paper providing third update on the Safeguards Performance Assessment (SPA) pilot program including implementation and policy issues (199800188) (SECY-01-0060)	4/5/01C	R. Albert, DIPM
2. Proposed rule to Commission (199800188) (SECY-01-0101)	6/4/01C	R. Rosano, DIPM

<b>Through December 2002</b>		
Milestone	Date	Lead
3. Proposed rule published in the Federal Register with a 75-day comment period	TBD	R. Rosano, DIPM
4. Resolution of public comments	TBD	R. Rosano, DIPM
5. Final rule ACRS Briefing	TBD	R. Rosano, DIPM

<b>Beyond December 2002</b>		
Milestone	Date	Lead
6. Final rule CRGR Briefing	TBD	R. Rosano, DIPM
7. Final rule to EDO (199800188)	TBD	R. Rosano, DIPM
8. Final rule to Commission	TBD	R. Rosano, DIPM
9. Initiate SPA pilot program	TBD	R. Albert, DIPM
10. Completion of SPA pilot program	TBD	R. Albert, DIPM
11. Publication of final rule	TBD	R. Rosano, DIPM
12. Lessons Learned from SPA pilot (200100060)	TBD	R. Albert, DIPM

Comments:

- 9,10,12. 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.
- 3-8, 11. 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.

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

<b>Prior to June 2002</b>		
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 report on reactivity insertion accidents, PWR LOCA and the applicability of NUREG-1465 source term to MOX fuel.	03/02	R. Lee, RES
4. Meet with the ACRS subcommittee to discuss PIRT results and proposed research plan to address source term issues	05/02	C. Tinkler, RES

<b>Through December 2002</b>		
Milestone	Date	Lead
5. Complete final agreement with JAERI and NRC.	TBD	A. Szukiewicz, RES

<b>Beyond December 2002</b>		
Milestone	Date	Lead
6. 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.G). Draft agreement sent to JAERI for review in January 2001. Due to recent re-organization in JAERI, additional time is needed for them to review the agreement. Additional time is needed for JAERI to resolve administrative issues, with the Science and Technology Agency (STA) and other government organizations, to allow them to enter into an agreement with NRC directly.

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

##### G. 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 June 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.	03/02	J. Schaperow, RES

<b>Through December 2002</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

<b>Beyond December 2002</b>		
Milestone	Date	Lead
8. Complete final agreement with JAERI and NRC	TBD	A. Szukiewicz
9. The activity is long-term with an anticipated completion date for the RIA tests and issuance of modification to (e.g., the SRM or Regulatory Guide) in 2008	TBD	R. Meyer, RES

Comments:

8. The agreement with JAERI includes data for both high burnup fuel and MOX (IV.F. - MOX). Draft agreement sent to JAERI for review in January 2001. Due to recent re-organization in JAERI, additional time is needed for them to review the agreement. Additional time needed for JAERI to resolve administrative issues, with Science and Technology Agency (STA) and other government organizations to allow them to enter into an agreement with NRC directly

**IV. Topic Area: Reactor Licensing and Oversight****H. Power Uprates**

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

Objective: Review licensee applications for increased reactor power levels.

<b>Prior to June 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
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

<b>Prior to June 2002</b>		
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 1/2 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.	03/2002	M. Shuaibi, DLPM
23. Completion of staff review of South Texas Units 1 and 2 1.4% power uprate amendment requests. Application dated 08/22/01.	03/2002	M. Shuaibi, DLPM
24. Completion of staff review of Waterford 3 1.4% power uprate amendment request. Application dated 09/21/01.	03/2002	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.	04/2002	M. Shuaibi, DLPM

Prior to June 2002		
26. 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.	05/2002	M. Shuaibi, DLPM
27. Completion of staff review of Davis-Besse Unit 1 1.63% power uprate amendment request. Application dated 10/12/01.	04/2002 TBD	M. Shuaibi, DLPM
28. Completion of staff review of Sequoyah 1 and 2 1.3% power uprate amendment requests. Application dated 11/15/01.	04/2002	M. Shuaibi, DLPM

Through December 2002		
Milestone	Date	Lead
29. Completion of staff review of Brunswick Units 1 and 2 15% power uprate amendment requests. Application dated 08/09/01.	06/2002	M. Shuaibi, DLPM
30. Completion of staff review of GE topical report for BWR Thermal Power Optimization Power Uprates (Measurement Uncertainty Recapture Power Uprates)	05/2002	M. Shuaibi, DLPM
31. Completion of staff review of Palo Verde 2 2.9% power uprate amendment request. Application dated 12/21/02.	12/2002	M. Shuaibi, DLPM
32. Completion of staff review of Grand Gulf 1.7% power uprate amendment request. Application dated 1/31/02.	TBD	M. Shuaibi DLPM

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

26. ~~General Electric Nuclear Energy (GENE) requested approval by December 2001. The staff's schedule for completion is now May 2002. The schedule change is due to one-month delays for AGRS Subcommittee and Full Committee meetings that had been planned for February and March 2002.~~

27. The licensee has shut down the plant to perform control rod drive mechanism (CRDM) inspections. As a result, a delay is expected in the licensee's response to the requests

for additional information issued by the staff for the power uprate. The staff is evaluating the impact of these delays on the overall schedule for completion of the power uprate review.

30. Staff requested additional information from GENE in April 2001. Final GENE response submitted in October 2001. Completion date of May 2002 is contingent upon planned completion of other higher priority reviews of plant-specific power uprate requests.
- ~~31. Completion date of December 2002 is based on the licensee's requested completion date.~~
32. New item added to the CTM.

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

##### **I. 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 June 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 1.14) Staff completes review and draft safety evaluation of NEI 97-06 including addressing issues raised in OIG report and IP2 lessons learned report	08/31/02	E. Murphy, DE
3. (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
4. (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.	<del>02/28/02</del> 1/31/02C	M. Kotzalas, PMAS
5. (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 <del>02/28/02</del> 02/27/02C	M. Banerjee M. Fields, DLPM

<b>Prior to June 2002</b>		
Milestone	Date	Lead
6. (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	<del>02/28/02</del> 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
7. (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

<b>Through December 2002</b>		
Milestone	Date	Lead
8. (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.	10/31/02	J. Hayes, DSSA
9. (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
10. (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
11. (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
12. (SGAP Item 1.20) Staff briefs Commission on endorsing NEI 97-06 (199400048)	12/31/02	L. Lund, DE

Through December 2002		
13. (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.	TBD 12/31/02	M. Kotzalas, PMAS

Beyond December 2002		
Milestone	Date	Lead
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	01/31/03	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	E. Thornsbury, 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
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:

- ~~3. Information Notice 2001-16.~~
- 2, 12, ~~13~~ 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 6/30/04~~2~~.
- 4. The ~~milestone~~ **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**).
- ~~6.b. The milestone has been broken down into two separate activities that supports the licensees’ Fall refueling outages and the staff’s resource considerations.~~
- ~~6.b.2 The target completion date has been revised to allow staff to obtain RES input prior to issuing the draft for stakeholders’ comments.~~
- ~~12. This date has been revised because the final submittal of the steam generator program generic license change package is not expected to be received from NEI until mid-2002.~~
- ~~17. The revised date is considered more realistic based on the assumed need of a large scale test (SGAP item 3.4.h.3) scheduled to be completed by November 30, 2005. This revised date is consistent with the NRR Director’s Quarterly Status Report.~~

**IV. Topic Area: Reactor Licensing and Oversight****J. FutureNew 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 June 2002		
Milestone	Date	Lead
1. Staff Requirements Memorandum	2/13/01	
2. SRM response describing future licensing preparation activities (20010018)	5/01/01C	J. Sebrosky, NRLPO
3. Submit a SECY paper (with recommendations) to the Commission resulting from the Future Licensing and Inspection Readiness Assessment (FLIRA) (20010018) (SECY-01-0188)	10/12/01C	N. Gilles, 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) (20010080)(SECY-01-0207)	11/20/01C	A. Cabbage, NRLPO
5. Submit a SECY paper to the Commission on the status of pre-application activities for the PBMR ( <del>20010084</del> )(20000117)	<del>2/28/02</del> 3/31/02	E. Benner NRLPO S. Rubin RES/ARG
6. Submit a SECY paper to the Commission on plans to perform a pre-application review of the GT-MHR.	TBD	J. Ibarra RES/ARG
7. Submit a SECY paper to the Commission to provide recommendations regarding programmatic inspections, tests, analyses, and acceptance criteria (ITAAC) (20000095)	4/4/02	J. Sebrosky, NRLPO
8. Submit a SECY paper to the Commission to address design acceptance criteria and regulatory exemptions for AP1000 (200100108)	3/28/02	L. Burkhart A. Drozd, NRLPO
8. Submit a SECY paper to the Commission addressing AP1000 codes and scaling (200100108)	3/28/02	A. Drozd, NRLPO
9. Submit to the Commission a proposed rule containing 10 CFR Part 52 revisions (199700060)	4/01/02	J. Wilson, NRLPO

Prior to June 2002		
10. Submit a SECY paper to the Commission with the first semi-annual update of the status of new reactor licensing activities. (200100018)	4/12/02	J. Williams, NRLPO

Through December 2002		
Milestone	Date	Lead
11. Submit to the Commission a final rule containing 10 CFR Part 52 revisions (19970060)	8 months after SRM is issued on proposed rule	N. Gilles, NRLPO

Beyond December 2002		
Milestone	Date	Lead
12. Submit a SECY paper to the Commission on technical and policy issues for the PBMR (20010086)	12/19/02 06/03	D. Carlson, RES/ARG

Comments:

5. ~~Paper will also include the staff's assessment of the licensing approach proposed by Exelon.~~ WITS 20010081, on the proposed PBMR licensing approach, has been deleted and the activity has been subsumed into WITS 20000117, which covers on the broad scope of all PBMR pre-licensing activities. The paper is currently under review in the Office of the EDO.
7. The due date has changed because of work re-prioritization.
8. The staff has determined that exemption issues do not require a Commission policy decision. The staff has determined that codes and testing issues do not require a Commission policy decision.
12. Date revised due to the need to review Exelon's white papers and additional information submitted by Exelon in response to staff questions.

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

<b>Prior to June 2002</b>		
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 Reg. 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.	03/02	S. Arndt, RES
4. Issue report on the effects of emerging digital technology on the potential vulnerabilities of nuclear power plants to cyber-terrorism.	03/02	R. Shaffer, RES

<b>Through December 2002</b>		
Milestone	Date	Lead
5. Issue for public comment Reg. Guide 1.180 Rev 1 on EMI/RFI in safety related I&C.	06/02	C. Antonescu, RES
6. Submit for publication a NUREG on the characteristics of I&C operating systems and provide appropriate review guidance to ensure their safe use.	12/02	E. Lee, RES

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<b>Beyond December 2002</b>		
Milestone	Date	Lead
7. 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.

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

SES Manager: Chris Grimes, 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 June 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
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

<b>Prior to June 2002</b>		
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. Issue Turkey Point Final Environmental Impact Statement Supplement	1/11/02C	C. Grimes, DRIP
23. Decision on Hatch license renewal	1/15/02C	C. Grimes, DRIP
24. Issue Turkey Point Supplemental SER	2/27/02C 2/02	C. Grimes, DRIP

<b>Through December 2002</b>		
Milestone	Date	Lead
25. Inform the Commission of GALL demonstration project progress and any significant issues (200100059)	7/02	C. Grimes, DRIP
26. Decision on Turkey Point license renewal	7/02	C. Grimes, DRIP
27. Issue Surry and North Anna Supplemental SER	11/02	C. Grimes, DRIP
28. Issue Surry and North Anna Final Environmental Impact Statement Supplements	12/02	C. Grimes, DRIP

<b>Beyond December 2002</b>		
Milestone	Date	Lead
29. Issue McGuire and Catawba Supplemental SER	1/03	C. Grimes, DRIP

Beyond December 2002		
Milestone	Date	Lead
30. Issue McGuire and Catawba Final Environmental Impact Statement Supplements	1/03	C. Grimes, DRIP
31. Issue Peach Bottom Supplemental SER	2/03	C. Grimes, DRIP
32. Issue Peach Bottom Final Environmental Impact Statement Supplement	2/03	C. Grimes, DRIP
33. Issue St. Lucie Final Environmental Impact Statement Supplement	6/03	C. Grimes, DRIP
34. Decision on Surry and North Anna license renewal	7/03	C. Grimes, DRIP
35. Decision on Peach Bottom license renewal	7/03	C. Grimes, DRIP
36. Issue St. Lucie Supplemental SER	7/03	C. Grimes, DRIP
37. Decision on McGuire and Catawba license renewal (See comment)	12/03	C. Grimes, DRIP
38. Decision on St. Lucie license renewal	6/04	C. Grimes, DRIP

Comments:

~~22. The Turkey Point Final Environmental Impact Statement Supplement was issued on January 11, 2002.~~

~~23. Issued the Hatch renewed license, dated January 15, 2002.~~

~~33, 36, 38. Added milestones for completion of the St. Lucie application review.~~

24. Issued the Turkey Point Supplemental SER on February 27, 2002.

37. Petitions to intervene and requests for hearing were received on the McGuire and Catawba renewal applications from the Nuclear Information and Resource Service and the Blue Ridge Environmental Defense League. In a Memorandum and Order issued January 24, 2002, the Atomic Safety and Licensing Board Panel issued its ruling on standing and the admissibility of contentions finding that both petitioners have standing and concluded that two admissible contentions were have been proffered. The NRC staff and Duke Energy Corporation have filed separate appeals to the Commission regarding the Board's decision to grant a hearing. The Board also certified a third contention to the Commission for consideration relating to the risks to the McGuire and Catawba nuclear stations posed by terrorism.

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

SES Manager: John Zwolinski, Director, DLPM

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 June 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
1. Complete the order and conforming amendment for the direct license transfer for Oyster Creek resulting from the sale to AmerGen.	6/6/00C	E. Adensam, PDI
2. Complete the orders and conforming amendments for the direct license transfers for Monticello and Prairie Island 1/2 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 1/2, and Prairie Island 1/2 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 1/2 resulting from the acquisition of Conectiv's interest in the facility by PSEG Nuclear.	4/21/00C	E. Adensam, PDI
5. Complete the orders and conforming amendments for the direct license transfers for Susquehanna 1/2 resulting from the restructuring of PP&L Inc. to PPL Susquehanna, LLC.	6/6/00C	E. Adensam, PDI
6. Complete the orders and conforming amendments for Braidwood 1/2, Byron 1/2, Dresden 1/2/3, LaSalle 1/2, Limerick 1/2, Peach Bottom 2/3, Quad Cities 1/2, Salem 1/2, and Zion 1/2 resulting from the merger of UNICOM and PECO.	8/3/00C	S. Bajwa, PDIII
7. Complete the orders for Indian Point 1/2, Millstone 1/2/3, and Seabrook resulting from the merger of Consolidated Edison and Northeast Utilities.	8/22/00C	E. Adensam, PDI
8. Complete the order and conforming amendment for the acquisition of Vermont Yankee by AmerGen.	7/7/00C	E. Adensam, PDI

<b>Prior to June 2002</b>		
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	S. Richards, 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	E. Adensam, PDI
13. Complete the orders and conforming amendments for Calvert Cliffs 1/2 resulting from the restructuring of Baltimore Gas & Electric, and its parent company (Constellation Energy).	6/30/00C	E. Adensam, PDI
14. Complete the orders and conforming amendments for Palo Verde 1/2/3 resulting from the reorganization of Public Service Company of New Mexico (minority owner).	9/29/00C	S. Richards, 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	E. Adensam, PDI
16. Complete the orders and conforming amendments for Palo Verde 1/2/3 resulting from the restructuring of El Paso Electric Company.	12/04/00C	S. Richards, 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	E. Adensam, 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	E. Adensam, 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	E. Adensam, PDI
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	E. Adensam, PDI

<b>Prior to June 2002</b>		
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	S. Richards, 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	S. Richards, 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	E. Adensam, 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	E. Adensam, 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	E. Adensam, 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	E. Adensam, 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	S. Richards, PDIV
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	E. Adensam, PDI

<b>Prior to June 2002</b>		
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	S. Richards, 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	S. Richards, PDIV
34. Complete the license transfer order for Pilgrim Unit 1 to change the plant operator to Entergy Nuclear Operations.	<del>2/28/02</del> 3/19/02	E. Adensam, 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	E. Adensam, PDI
36. Complete the direct license transfer order for Vermont Yankee transferring operating responsibility to Entergy Nuclear Operations.	4/30/02	E. Adensam, PDI

<b>Through December 2002</b>		
Milestone	Date	Lead
37. 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.	<del>TBD</del> On hold	H. Berkow, PDII
38. 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.	On hold	S. Richards, PDIV
39. Complete the review of the license transfer order for the Aerotest Radiography and Research Reactor.	TBD	P. Madden, DRIP/REXB

Through December 2002		
40. 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.	TBD On hold	E. Adensam, PDI
41. 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.	7/31/02	S. Richards, PDIV

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

19. The license transfer order involving AmerGen expired on 7/1/01. Vermont Yankee proceeded with a public auction process to determine the new owner of the plant. On August 15, 2001, Vermont Yankee and Entergy announced an agreement to sell the Vermont Yankee nuclear power plant to Entergy Nuclear Vermont Yankee LLC, a subsidiary of Entergy Corporation. By letter dated August 27, 2001, AmerGen has withdrawn the two existing applications.
34. An RAI was generated re: projected five year cost and revenue estimates for Entergy Nuclear Generating Company, and various administrative issues. Licensee response to the RAI requires additional staff review resulting in revision of the Order issue target date to 3/19/02. The licensee has been advised of the schedule change, and has agreed to the new date.
37. The Order issue target date has been rescheduled at licensee request due to potential impact of conditions imposed on the transaction by the State of Virginia which may not be fully defined until the end of CY2001. In a November 2001 letter, the licensee informed the Staff that by the end of January 2002, the licensee will define a revised need-by-date for the license transfer order. 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 (SSC) denied VEPCO's request to transfer its generation assets to Dominion Generation, an affiliate company. VEPCO has appealed (1/17/02) the SSC's order, and will notify the staff of the outcome. VEPCO will advise further re: the desired disposition of the license transfer requests.
38. Awaiting information from the licensee regarding the name of the new ownership entity.

39. 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).
40. ~~The Order issue target date has been rescheduled, at licensee request, due to potential impact of conditions imposed on the transaction by the State of Virginia which may not be fully defined until the end of CY2001. In a November 2001 letter, the licensee informed the Staff that by the end of January 2002, the licensee will define a revised need-by-date for the license transfer order. This issue was initially identified during review of the application for Surry 1&2 and North Anna 1&2, but is also applicable to Millstone 1, 2, & 3, because Dominion Resources is the parent owner of these facilities.~~ 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 (SSC) denied VEPCO's request to transfer its generation assets to Dominion Generation, an affiliate company. VEPCO has appealed (1/17/02) the SSC's order, and will notify the staff of the outcome. VEPCO will advise further re: the desired disposition of the license transfer requests.

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

SES Manager: Charles L. Miller, Deputy Director, Licensing and Inspection Directorate, SFPO

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

Project Manager: Mary Jane Ross-Lee

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 for the FuelSolutions dual-purpose cask system.

Coordination: The Part 72 storage SER and certificate of compliance (CoC) have been issued in draft for rulemaking. SFPO coordinated with OGC and IMNS to complete rulemaking and issued the CoC in January 2001.

<b>Prior to June 30, 2002</b>		
Milestone	Date	Lead
1. Staff issues draft storage SER and CoC for rulemaking	4/27/00C	M. Ross-Lee, SFPO
2. Staff completes rulemaking; issues CoC for use under Part 72	1/30/01C	M. Tokar, SFPO
3. Staff issues Part 71 CoC and SER	5/31/02	M. Ross-Lee, SFPO

<b>Through December 31, 2002</b>		
Milestone	Date	Lead
None		

<b>Beyond December 31, 2002</b>		
Milestone	Date	Lead
None		

Comments:

- On April 20, 2001, BNFL Fuel Solutions (BFS) submitted an application for a new transportation package to be used with the Fuel Solutions storage system. SFPO has established the schedule for completion of the 10 CFR Part 71 transportation review.

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

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

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

Project Manager: Steven Baggett (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.

<b>Prior to June 30, 2002</b>		
Milestone	Date	Lead
1. Staff completes rulemaking; issues CoC for use under Part 72	10/02/00C	M. Tokar, SFPO

<b>Through December 31, 2002</b>		
Milestone	Date	Lead
2. Issue Part 71 SER and CoC	<del>TBD</del> 10/31/02	S. Baggett, SFPO

<b>Beyond December 31, 2002</b>		
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 latest RAI response and will develop and issue a revised schedule for the completion of the review in the near future.~~ 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 June 30, 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)	<del>4/8-26/02</del> 4/8-5/17, 2002	G. P. Bollwerk, ASLB

<b>Through December 31, 2002</b>		
Milestone	Date	Lead
None		

Beyond December 31, 2002		
Milestone	Date	Lead
7. Final Decision on Licensing	TBD	

Comments:

- 5-7. ~~The staff has developed a new schedule for completion of a revised SER and for release of the Final EIS, to address changes to the PFS license application.~~ 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. The ASLB has rescheduled the second round of hearings for ~~April 8-26, 2002.~~ **April 8 through May 17, 2002.** A final Commission decision on licensing will take place after the hearings are concluded.

**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 June 2002</b>		
Milestone	Date	Lead
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	05/02	A. Murphy, RES

<b>Through December 2002</b>		
Milestone	Date	Lead
5. Complete review of SNL report on barge accident event trees	07/02	A. Murphy, RES

<b>Beyond 2002</b>		
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 June 2002</b>		
Milestone	Date	Lead
1. Provide preliminary consequence analysis for PRA for dry storage of spent fuel.	07/16/01C	J. Schaperow, RES

<b>Through December 2002</b>		
Milestones	Date	Lead
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	06/02	S. Basu, RES
3. Meet with the ACRS/ACNW subcommittee to discuss results and proposed research plan	06/02	S. Basu, RES

<b>Beyond December 2002</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	S. Basu, 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	S. Basu, RES

Comments:

**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: Melvyn Leach, Chief, Fuel Cycle Licensing Branch, Division of Fuel Cycle Safety and Safeguards (FCSS)

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

<b>Prior to June 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

<b>Through December 2002</b>		
Milestone	Date	Lead
3. Final versions of NUREGs 1569 and 1620 to Commission (200100050) (SECY-01-0026)	10/02	J. Lusher, FCSS

<b>Beyond December 2002</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.

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

SES Manager: Patricia Holahan, 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 June 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

<b>Through December 2002</b>		
Milestone	Date	Lead
3. Provide additional recommendations to Commission on exemption issues based on results of ORNL's report (199000208) (Paper will also include recommendations on byproduct material.)	06/28/02	C. Mattsen, IMNS
4. Provide recommendations on jurisdictional issues	07/02	T. Taylor, IMNS

<b>Beyond December 2002</b>		
Milestone	Date	Lead
5. Final rule (on transfers from licensees) to Commission (200000041)	6 months after end of public comment period	C. Prichard, IMNS

Comments:

3. Final dose assessments in NUREG-1717 (formerly referred to as ORNL report) were published in June 2001.

**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 June 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

<b>Through December 2002</b>		
Milestone	Date	Lead
2. Publish revised policy statement in Federal Register	SRM + 30 days 02/02/02C	C. Glenn, DWM
3. After DOE's publication of West Valley draft decommissioning EIS, NRC will review and comment on the DEIS.	TBD	C. Glenn, DWM

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

**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 June 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

<b>Through December 2002</b>		
Milestone	Date	Lead
6. Remove Heritage Minerals Site from SDMP	09/2002	C. Gordon, Region I
7. 2002 Annual Update to Commission - Status of Decommissioning Program (199900100)	09/2002	L. Camper, DWM

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

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

SES Managers: Bill Reamer, Division of Waste Management

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

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

Coordination: OGC

<b>Prior to June 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
54. Submit proposed rule on unlikely events (200100100) (SECY 01-206)	11/16/01C	C. Prichard, IMNS
45. Schedule Public Meetings on Part 63	<del>TBD</del> 02/28/02C	J. Kotra, DWM

<b>Through December 2002</b>		
Milestone	Date	Lead
6. Submit Draft Final Rule on Unlikely Events	06/2002	C. Prichard, IMNS

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

**VII. Topic Area: Materials and Waste Programs****H. Prepare for Licensing a HLW Repository****2) NRC Comments on DOE HLW Site Recommendation**

SES Manager: Bill Reamer, Division of Waste Management

Objective: Provide DOE with the preliminary comments concerning the extent to which the in-depth site characterization analysis and waste form proposal seem sufficient for inclusion in the license application.

DOE must incorporate the Commission's comments in its Site Recommendation Report to the President. These activities are required by the Nuclear Waste Policy Act.

Coordination: OGC

<b>Prior to June 2002</b>		
Milestone	Date	Lead
1. Paper to Commission on Final Staff Guidance for Site Recommendation Review (199900117)	11/13/00C	Manny Comar, DWM
2. Paper to Commission on Final Site Recommendation Review (199900117)	10/07/01C	Jeff Ciocco, DWM
3. Submit comments to DOE on HLW Site Recommendation	11/13/01C	Jeff Ciocco, DWM

<b>Through December 2002</b>		
Milestone	Date	Lead
None		

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

~~2, 3. These tasks, which include completion of a Commission paper and generating comments to DOE (per Section 114, Nuclear Waste Policy Act) are subject to receiving all DOE Site Recommendation documents. DOE has been delayed in submitting the Supplemental Science and Performance Analysis Report (Volume 1 was received on 7/14/01, and Volume 2 was received on 7/28/01) which forms the basis for review by NRC staff.~~

**VII. Topic Area: Materials and Waste Programs****I. Control of Solid Materials**

SES Managers: Patricia Holahan, 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.

<b>Prior to June 2002</b>		
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. Submit quarterly report to Commission (200000039)	9/27/01C	F. Cardile, IMNS
4. Submit quarterly report to Commission (200000039)	1/18/02C	F. Cardile, IMNS
5. National Academy of Sciences study completed (200000039)	<del>2/02</del> 3/02	C. Trottier, RES
6. Submit quarterly report to Commission (200000039)	4/02	F. Cardile, IMNS
7. Issue final NUREG-1640 on individual doses	5/02	C. Trottier, RES

<b>Through December 2002</b>		
Milestones	Date	Lead
8. SECY Paper on results of NAS study, technical basis, and recommendations	6/02	F. Cardile, IMNS
9. Commission briefing	8/02	F. Cardile, IMNS

<b>Beyond December 2002</b>		
Milestones	Date	Lead
None		

Comments:

5. The National Academies has indicated that the study report will not be completed until March because its internal review took more time than anticipated.

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

SES Manager: Patricia Holahan, 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

<b>Prior to June 2002</b>		
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

<b>Through December 2002</b>		
Milestone	Date	Lead
None		

<b>Beyond December 2002</b>		
Milestone	Date	Lead
3. Final rule to Commission (199900123)	One year after end of public comment period	R. Broseus, IMNS

Comments:

- 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, 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).

<b>Prior to June 2002</b>		
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)	4/2002	N. Tanious, IMNS

<b>Through December 2002</b>		
Milestone	Date	Lead
None		

<b>Beyond December 2002</b>		
Milestone	Date	Lead
4. Final rule to Commission (199800008)	One year after end of public comment period	N. Tanious, IMNS

Comments:

3. The SRM requires the staff to publish the proposed rule concurrently with the Department of Transportation (DOT). DOT's publication date is uncertain, it could be in

February 2002 or March 2002. The staff will inform the Commission of any significant delays in the publication date beyond the end of April 2002.

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

SES Manager: Melvyn Leach, Chief, Fuel Cycle Licensing Branch (FCLB),  
Division of Fuel Cycle Safety and Safeguards (FCSS)

Project Manager: Yawar Faraz, FCLB/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 June 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
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

<b>Through December 2002</b>		
Milestone	Date	Lead
5. Develop guidance document for §70.76 Backfitting	12/02	Yawar Faraz, FCSS

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

2. 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 posted it on the NRC website in mid-January 2002 and intends on publishing it as NUREG-1520 during the first quarter of 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, Chief, Rulemaking and Guidance Branch, Division of Industrial and Medical Nuclear Safety (IMNS)

Catherine Haney, Chief, Safety and Safeguards Support Branch, Division of Fuel Cycle Safety and Safeguards (FCSS)

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.

<b>Prior to June 2002</b>		
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	TBD	B. Moran, FCSS

<b>Through December 2002</b>		
Milestone	Date	Lead
None		

<b>Beyond December 2002</b>		
Milestone	Date	Lead
3. Submit final rulemaking plan to Commission for approval (199900118)	6 months after US Government assignment on responsibility	TBD, IMNS
4. Submit proposed rule to Commission for approval (199900118)	9 months after Commission approves Rulemaking plan	TBD IMNS

Comments:

2. The supplement memo was submitted to OEDO on 1/25/02.
- 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: Eric J. Leeds, Chief, Special Projects Branch, FCSS

Project Manager: Andrew Persinko, SPB/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 June 2002</b>		
<b>Milestone</b>	<b>Date</b>	<b>Lead</b>
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 environmental impact statement for MOX fuel fabrication facility for public comment	<del>2/02</del> TBD	J. Davis, DWM
7. Issue draft safety evaluation report for MOX fuel fabrication facility	4/02	A. Persinko, FCSS

Through December 2002		
Milestone	Date	Lead
8. Issue final environmental impact statement for MOX fuel fabrication facility	<del>9/02</del> TBD	J. Davis, DWM
9. Issue final safety evaluation report for the MOX fuel fabrication facility	<del>9/02</del> TBD	A. Persinko, FCSS
10. Issue Record of Decision and licensing decision on MOX fuel fabrication facility construction authorization application	<del>10/02</del> TBD	A. Persinko, FCSS

Beyond December 2002		
Milestone	Date	Lead
None		

Comments:

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

- 6-10. 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 and its Environmental Report in October 2002. NRC staff is currently evaluating the impacts of these changes on the MOX schedule and will develop a revised schedule by March 29, 2002.

**VII. Topic Area: Materials and Waste Programs****O. Risk-Informed and Performance-Based Oversight Program for Fuel Cycle Facilities**

SES Manager: Catherine Haney, Chief, Safety and Safeguards Support Branch (FSSB),  
Division of Fuel Cycle Safety and Safeguards (FCSS)

Program Manager: Patrick Castleman, Inspection Section, FSSB/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 is soliciting public and other stakeholder views in developing revisions to the oversight program. Program development is coordinated with NMSS organizations; Regions II, III, and IV; NRR; OPA; OCA; OSTP; OE; and OGC. Program development is also integrated with other NRC initiatives, such as described in CTM items II.A., Risk-Informed Oversight Program (for reactors), and VII.N, 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 June 2002</b>		
Milestone	Date	Lead
1. Revise Inspection Manual Chapter 2604, Licensee Performance Review	03/29/02	P. Castleman, FCSS

<b>Through December 2002</b>		
Milestone	Date	Lead
2. Issue revised MC 2600, Fuel Cycle Inspection Program.	09/30/02	P. Castleman, FCSS

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

1. As a result of lessons learned from the first year of implementation of the revised reactor oversight process (see SECY-01-0114), the staff reassessed the project's scope, objectives, and milestones. In the near term, the staff intends to review and revise Inspection Manual Chapter 2604, "Licensee Performance Review (LPR)" to make the LPR process more timely and efficient. These changes will be developed in consultation with, first, internal NRC stakeholders (e.g., regional offices), then with external stakeholders. 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.

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

**P. Threat Assessment Activities (Coordinated with Reactor Safeguards Initiatives)**

SES Manager: Catherine Haney, Chief, Safety and Safeguards Support Branch (FSSB),  
Division of Fuel Cycle Safety and Safeguards (FCSS)

Project Manager: Roberta Warren, Team Leader, Threat Assessment Team/FSSB/FCSS

Objectives: To coordinate with FBI, NSC, DOE, and other agencies on national initiatives to protect against weapons of mass destruction and related activities involving NRC licensed facilities or materials. To complete a range of threat assessment activities in a timely manner to assure an adequate response to all reported threats involving NRC licensed facilities or materials; the continuing validity of the NRC design basis threat statement and associated safeguards and security regulations; to advise the Commission and NRC staff of significant threats, incidents, and associated interagency issues.

Coordination: Staff will coordinate with NMSS, NRR, OSTP, ADM, regions, OGC, and IRO.

<b>Prior to June 2002</b>		
Milestone	Date	Lead
1. Paper to Commission: Process for Developing the Adversary Characteristics Document (SECY-01-0015) (200000115)	02/1/01C	J. Davidson, FCSS
2. Paper to Commission: Semi-Annual Threat Environment (199900076) (SECY-01-0018)	02/1/01C	A. Danis, FCSS
3. Commission Briefing on Semi-Annual Threat Environment (199900076)	02/27/01C	A. Danis, FCSS
4. Paper to Commission: Semi-Annual Threat Environment Review (199900076)	09/01C	A. Danis, FCSS

<b>Through December 2002</b>		
Milestone	Date	Lead
None		

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

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

SES Manager: Catherine Haney, Chief, Safety and Safeguards Support Branch (FSSB),  
Division of Fuel Cycle Safety and Safeguards (FCSS)

Project Manager: Michael Kelly, Safeguards Section/FSSB/FCSS (MPC&A)  
Nancy Fragoyannis, Safeguards Section/FSSB/FCSS (Physical Protection)

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

<b>Prior to June 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)	02/1/02C	M. Kelly, FCSS

<b>Through December 2002</b>		
Milestone	Date	Lead
2. Meet with the regulatory agencies of Russia, Ukraine, and Kazakhstan	TBD	M. Kelly, FCSS

<b>Beyond December 2002</b>		
Milestone	Date	Lead
3. Based on regulatory agency meetings, determine if NRC should continue to provide MPC&A support to any of these countries.	TBD	M. Kelly, FCSS

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.

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

**Q. Material Protection, Control, and Accounting (MPC&A)  
2) Part 74 Rulemaking: Material Control and Accounting**

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

Catherine Haney, Chief, Safety and Safeguards Support Branch, Fuel Cycle Safety and Safeguards (FCSS)

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

<b>Prior to June 2002</b>		
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

<b>Through December 2002</b>		
Milestone	Date	Lead
3. Final rulemaking package to Commission (200000088)	8/20/02	M. Horn, IMNS

<b>Beyond December 2002</b>		
Milestone	Date	Lead
None		

Comments:

**VII. Topic Area: Materials and Waste Programs****R. Task Force on Response to Terrorist Attacks**

SES Manager: Margaret Federline, Deputy Director, Office of Nuclear Material Safety and Safeguards, Chairperson, Task Force on Response to Terrorist Attacks

Project Manager: Jack Davis, Office of Nuclear Material Safety and Safeguards  
Vonna Ordaz, Office of Nuclear Reactor Regulation

Objective: To carry out a thorough review of the NRC's safeguards and physical security program, including a comprehensive examination of the basic assumptions underlying the current safeguards and physical security program, in order to determine whether adjustments are necessary to the NRC's or licensees' programs as a result of the nature and scope of the September 11, 2001 terrorist attacks.

Coordination: NMSS, NRR, RES, OGC, ADM, and Regions

<b>Prior to June 2002</b>		
Milestone	Date	Lead
1. Submit Commission paper setting out staff's proposed course of action, proposed schedule, and any preliminary issues on which the staff seeks Commission guidance. (SECY-01-0215)	11/28/01C	J. Davis, NMSS V. Ordaz, NRR

<b>Through December 2002</b>		
Milestone	Date	Lead
TBD based on Commission guidance		

<b>Beyond December 2002</b>		
Milestone	Date	Lead
TBD based on Commission guidance		

Comments:

1. On November 28, 2001, the EDO issued SECY-01-0215, "Scoping Paper for Comprehensive Review of the NRC's Safeguards and Security Programs in light of the Terrorists Attacks on September 11, 2001." This paper was developed by the Response to Terrorist Activities (RTA) Task Force in response to the Chairman's Tasking Memorandum of September 28, 2001. The paper contains confidential information making it non-publicly available.

**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 June 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

<b>Through December 2002</b>		
Milestone	Date	Lead
4. Submit Final rules to Commission	<del>2/28/02</del> 4/26/02	OGC S. Treby

<b>Beyond December 2002</b>		
Milestone	Date	Lead
5. Commission approves/affirms final rules	5/30/02	OGC S. Treby
6. Publish final rules in Federal Register	6/14/02	OGC S. Treby
7. Final Rules effective	7/15/02	OGC S. Treby

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. Adjustments were made to subsequent milestones to reflect the granting of the comment period extension.

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

SES Manager: **Josephine Piccone**, ~~Frederick Combs~~, 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 June 2002		
Milestone	Date	Lead
None		

Through December 2002		
Milestones	Date	Lead
1. Pennsylvania Governor to file application for an Agreement	1/01/02 <del>3</del>	R. Blanton, STP

Beyond December 2002		
Milestone	Date	Lead
2. Negative consent paper to Commission (199900121)	9/01/02	R. Blanton, STP
3. Negative consent SRM to publish proposed agreement	10/01/02	
4. Commission paper reconsidering final agreement (199900121)	1/02/03	R. Blanton, STP
5. Commission SRM approving the Agreement	2/02/03	
6. Agreement effective	2/02/03	

Comments:

Based on comments from Pennsylvania on September 18, 2000, Pennsylvania now believes that the Agreement will be delayed at least one full year, thereby pushing the assumption for Pennsylvania's achieving Agreement State status to mid-FY 2003. The delay is a result of recent activities associated primarily with Site Decommissioning Management Plan (SDMP) sites within the Commonwealth, hiring of staff and establishment of a new fee schedule. By letter dated July 23, 2001, NRC requested an update to Pennsylvania's schedule. **In a letter dated November 26, 2001, from David E. Hess, Secretary of the Environment, Pennsylvania notified NRC that the formal request by the Governor for an Agreement will be delayed for one year until January 2003. The reasons stated for the delay include the events of September 11,**

2001, and Commonwealth personnel resource limitations. Based on this letter, the projected effective date for the Agreement is Mid-FY 2004.

**IX. Topic Area: State Programs**

**B. Agreement with the State of Wisconsin**

SES Manager: Frederick Combs, Deputy Director, 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 June 2002</b>		
Milestone	Date	Lead
None		

<b>Through December 2002</b>		
Milestones	Date	Lead
1. Wisconsin Governor to file application for an Agreement	10/01/02	L. Bolling, STP

<b>Beyond December 2002</b>		
Milestone	Date	Lead
2. Negative consent paper to Commission (200100090)	1/14/03	L. Bolling, STP
3. Negative consent SRM to publish proposed agreement	1/28/03	
4. Commission paper reconsidering final agreement (200100090)	5/06/03	L. Bolling, STP
5. Commission SRM approving the Agreement	6/03/03	
6. Agreement effective	7/01/03	

Comments:

**IX. Topic Area: State Programs**

**C. Agreement with the State of Minnesota**

SES Manager: Frederick Combs, Deputy Director, 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.

Prior to June 2002		
Milestone	Date	Lead
None		

Through December 2002		
Milestones	Date	Lead
1. Minnesota Governor to file application for an Agreement	9/23/02	C. Maupin, STP

Beyond December 2002		
Milestone	Date	Lead
2. Negative consent paper to Commission (200100091)	1/13/03	C. Maupin, STP
3. Negative consent SRM to publish proposed agreement	1/27/03	
4. Commission paper reconsidering final agreement (200100091)	5/05/03	C. Maupin, STP
5. Commission SRM approving the Agreement	6/02/03	
6. Agreement effective	6/30/03	

Comments:

As of July 1, 2001, the Minnesota state legislature approved extended the sunset provision for the proposed Agreement from August 2002 until August 2003.

**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 the ADAMS Steering Group, ADAMS Working Group, ADAMS Partners, and office and regional management as necessary to implement policy/procedural changes and software upgrades.

Prior to June 2002		
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

Through December 2002		
Milestone	Date	Lead
3. Deploy ADAMS legacy library	<del>3/02</del> 9/02	A. Levin, OCIO
4. Implement ADAMS as an electronic recordkeeping system. Begin filing records electronically. Obtain NARA approval of record schedules.	3/02	L. Scattolini, OCIO

Beyond December 2002		
Milestone	Date	Lead
5. Complete development and deploy ADAMS Version 4.0	<del>3/02</del> 09/02	A. Levin, OCIO
6. Improve ADAMS data integrity by completion of cleanup of ADAMS database	10/02	L. Scattolini, OCIO

Comments:

2. 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.
3. The ADAMS Legacy Library must be deployed concurrently with ADAMS Version 4.0 (See comment 5).
4. The records management module of ADAMS has been delivered, tested, and deployed. The NRC File Center staff and the Document Processing Center staff are routinely filing new documents electronically. A live demonstration of the operating system to the National Archives and Records Administration (NARA) was conducted. The schedule stated for the milestone reflects NARA recently published guidelines on the length of time it takes to review agency record schedules. NARA has approved 15-20 out of 26 of NRC's records schedules. Additionally, NARA rescinded its request that NRC refrain from destroying the paper copies of ADAMS documents covered by the initial five NARA approved ADAMS records schedules, as all issues have been resolved. This action confirms the NARA approval of ADAMS as an official NRC recordkeeping system and completes the ADAMS records scheduling process for all but six offices.
5. ~~The release date for ADAMS 4.0 is now scheduled for March 2002. The delay is due to a number of factors, including the need for new hardware, server availability, and additional technical work required to allow Foremost, the records management software package, and the custom code to work with the upgraded FileNET software.~~ 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 Release 4.0. Our current estimated date for completion is September 2002;

however this date may be revised on a project plan that will be developed in conjunction with the product vendor in March 2002.

6. OCIO has refined data standards and is cleaning up the values of other data elements in the database to ensure that documents are properly profiled for subsequent search and retrieval. The date for cleanup was extended due to system related problems that have inhibited progress at the originally planned pace.

**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, Acting Chief, Workforce Planning and Information Management, 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 June 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

Through December 2002*		
Milestone	Date	Lead
12. Evaluate pilot implementation of skills survey to assess core competencies and incorporate lessons learned as appropriate	11/30/01C	Bird/McDermott Reidinger Office Directors
13. Identify with Office Directors and Regional Administrators critical skill needs, skill gaps, and gap closure strategies for the FY 2004 PBPM cycle	<del>2/02</del> 4/02	Bird/McDermott Reidinger Office Directors
14. Implement employee self-assessment on-line skills survey for staff in Engineering, Scientific, and Technical Occupational Series	<del>4/02</del> 6/02	Reidinger

Beyond December 2002*		
Milestone	Date	Lead
15. Implement employee self-assessment on-line skills survey for staff in Occupational Series not defined in item 14	<del>6/02</del> 7/02	Reidinger
16. Implement longer-term SWP software solution	TBD	Reidinger

\*Subject to funding

Comments:

13. OD/RA Briefings extended to accommodate Office Director and Regional Administrators schedules. Briefings conducted with NRR, NMSS, RES, OCIO Staff, OPM, Strategic Workforce Planning Office Points of Contact in 2/02.
- 14-15. Revised, as appropriate, to reflect changes in program approach and implementation on this effort input from Office Strategic Workforce Planning points of contact.